

# ROAD **Builder**

SUMMER 2016

The quarterly publication of Ontario Road Builders' Association

## **GREENER INNOVATION**

ORBA STRIVES  
TO REDUCE THE  
ENVIRONMENTAL  
IMPACT OF THE  
INDUSTRY



**Rescue by  
Rapidway**

**Green Is Good**



# Building on a Budget?

With lower maintenance budgets and increasing material costs, road builders are under escalating pressure to deliver improved performance for less money. Nilex has several biaxial and triaxial geogrid choices, as well as geotextile options to help save you money, time and aggregate on any trafficked structure construction project versus conventional methods.

We'll even show you how much money - and carbon emissions - you can save on any project using our proprietary, third-party verified *Innovation Calculator*.

Let Nilex help you make a **Smart. Choice.**

Call or visit our website for a free demonstration.

Road Optimization  
Subgrade Stabilization  
Crack Mitigation  
Road Drainage



**Smart. Choice.**



[nilex.com](http://nilex.com) | 800.667.4811



**A FULL LINE OF EQUIPMENT &  
PRODUCT SUPPORT SOLUTIONS FOR  
ALL YOUR ROAD BUILDING NEEDS.**

**PAVERS | MTVS | COLD PLANERS | STABILIZERS  
BROOMS | COMPETITIVE PARTS | GUARDIAN**

**ROADTEC** an Astec Industries Company



800 MANUFACTURERS RD • CHATTANOOGA, TN 37405 USA  
© 2015 ROADTEC.INC. ALL RIGHTS RESERVED

**roadtec.com**  
**1.800.272.7100**  
**423.265.0600**



# YOU NEED WORK-READY EMPLOYEES.

## WE'RE HERE TO TRAIN THEM.



Highly trained, safety-conscious and skilled, LIUNA members are the right people for the job.

Employers know that LIUNA provides more comprehensive, advanced training for its members than any other union in Canada. LIUNA is committed to training and has created partnerships with employers including investments by our pension fund in P3 projects.

Hands-on training through the Construction Craft Worker (CCW) Apprenticeship Program is available for all LIUNA members to ensure a safe, productive workforce. Members are ready to work safely from their first day on the job, making them a valuable asset to employers.

LIUNA represents more than 80,000 members in all sectors of the construction industry in Ontario including; industrial, commercial and institutional (ICI), residential, roads, gas pipeline, sewer and watermain, electrical power systems, demolition, utilities and heavy engineering.

Visit [liunaopdc.org/affiliated-local-unions](http://liunaopdc.org/affiliated-local-unions) to find a LIUNA local affiliate near you.



# LIUNA!

*Ontario Provincial District Council*

# ROAD **Builder**

SUMMER 2016

The quarterly publication of Ontario Road Builders' Association

## Road Builder

is published quarterly for:  
The Ontario Road  
Builders' Association  
365 Brunel Road, Unit 1  
Mississauga, ON L4Z 1Z5  
Tel: (905) 507-1107  
Fax: (905) 890-8122  
www.orba.org

### Publisher

Robert Thompson

### Editor

Ali Mintenko-Crane

### Sales Executives

Gary Fustey, Pat Johnston,  
Mike Manko, Jack Smith,  
David Tetlock

### Senior Design Specialist

Krista Zimmermann

### Design Specialist

Kelli McCutcheon

### Published by:

**MediaEdge**

mediaedgepublishing.com

33 South Station Street  
North York, ON Canada M9N 2B2  
Toll Free: (866) 480-4717  
robertt@mediaedge.ca

531 Marion Street  
Winnipeg, MB Canada R2J 0J9  
Toll Free: (866) 201-3096  
Fax: (204) 480-4420

### President

Kevin Brown

### Senior Vice-President

Robert Thompson

### Branch Manager

Nancie Privé

All rights reserved. The contents of this publication may not be reproduced by any means, in whole or in part, without the prior written consent of the association.

Publication Mail Agreement  
#40787580

Return Undeliverable Items To:  
The Ontario Road Builders' Association  
365 Brunel Road, Unit 1  
Mississauga, ON L4Z 1Z5



## TABLE OF CONTENTS

## COLUMNS

Executive Director's Message .....	6
Around Queen's Park .....	8

## FEATURES

Greener Innovation: ORBA strives to reduce the environmental impact of the industry .....	10
Rescue by Rapidway: As VivaNext attempts to cut the commute .....	20

## DEPARTMENTS

Technology .....	18
Facts & Figures .....	26
Member Corner .....	28
Business Management .....	30
On the Road .....	33
Professional Services Directory .....	34



Road Builder is printed on 10% post-consumer FSC certified paper using soy based inks. When necessary to mail an issue in an enclosure, we use an environmentally-friendly, 100% oxo-degradable poly-wrap.

# EXECUTIVE DIRECTOR'S MESSAGE

## Setting the Course



by **GEOFF WILKINSON**  
Executive Director

**L**ong days and peak temperatures mean the summer construction season is here; and thanks to the Ministry of Transportation's (MTO) early tender calls, our members are enjoying the benefits of getting out of the gate early. There are still municipalities which appear to be facing obstacles in this regard, but we hope to continue communicating with them about the value of early tendering.

With a new season comes fresh opportunities for environmental stewardship. We are pleased to publish our first green issue of *Road Builder* highlighting a variety of environmental stories within the road building industry. Many ORBA members are already leading the way with the development and use of sustainable technologies, materials, and processes; and we're proud to spotlight their achievements in our Green Awards program,

conducted in association with the Ontario Good Roads Association (OGRA) and MTO.

ORBA also takes pride in doing our part to champion sustainable industry practices. Our Environmental Committee is making great strides on a number of environmental issues (Permit to Take Water regulatory changes, Species at Risk requirements, etc.); and has been busy preparing research papers for Ontario's Cap and Trade program and managing related submissions to the Ministry of Environment. Together, ORBA and its members are positioned to be a role model in eco-friendly operations, and we're pleased to share some of our successes and plans in the pages ahead.

As for impacting the industry elsewhere, ORBA held a Commercial Vehicle Operator's Registration (CVOR) seminar in April. The event gave members a forum to share their insights on disputing CVOR points through the Infrastructure Health & Safety Association (IHSA), and tackle the issues our members face with the program. As well, a couple weeks ago we held a Winter Maintenance Roundtable to discuss the future of winter maintenance contracts in Ontario and provide our recommendations to the MTO.

Of course, enhancing the health and safety of our industry is always on our agenda. Our latest Site Unseen campaign is currently underway with the goal of promoting change in driver behaviour in construction zones. Read more about that in Ashley De Souza's Around Queen's Park column and on our website.

Finally, by the time you read this, ORBA and the Ontario Hot Mix Producers Association (OHMPA) will have met with members across Ontario to discuss a potential amalgamation between the two organizations. If you have any questions or want to join the conversation, please reach out to either myself or ORBA President Allan West. More information will also be provided to members when there is more to share.

With plenty of projects and issues to keep us busy, ORBA looks forward to a meaningful and productive summer. And since there is strength in numbers, I encourage you to get involved and help us improve the conditions and opportunities for road builders across the province. In the meantime, if you have any article suggestions or feedback for *Road Builder*, please contact me at [geoff@orba.org](mailto:geoff@orba.org).

**BEC** EQUIPMENT  
Sales - Parts - Equipment Repairs  
Toronto's Newest  
**WACKER NEUSON**  
Dealer

**WACKER NEUSON**

JCB & Case Axle & Transmission  
We Stock JCB Parts

BEC Equipment 1780 Bonhill Rd. Mississauga  
[www.becequipment.ca](http://www.becequipment.ca)  
Call today to speak to one of our staff  
**905-670-7678**

# BYE BYE MAST!



## The Next Generation Machine Control is Here

# 3D-MC<sup>MAX</sup>

MASTLESS 3D DOZER SYSTEM

### 3D-MC<sup>MAX</sup>

Topcon's innovative dozer system delivering the highest productivity of dozer solution for any grade application while providing maximum speed, maximum control and maximum performance.



### Mastless 3D-Dozing:

- Grade on any slope with rapid blade response times
- Mastless, no more daily set up and take down procedure
- No blade bouncing
- Single or dual antenna 6 way blade control
- Perform detailed as-builts with "bottom of the track" data

 **TOPCON**

 **GeoShack**  
Productivity & Positioning Solutions

#### London

1930 Mallard Road  
London ON CA N6H 5M1  
Phone: (519) 235-0240

#### Toronto

35 McCleary Court, #21  
Concord ON CA L4K 3Y9  
Phone: (905) 669-9759

#### Ottawa

15 Grenfell Crescent  
Ottawa ON CA K2G 0G3  
Phone: (613) 225-1110

For More Information Visit Us At: [www.GeoShack.com](http://www.GeoShack.com)

Find Us On:



Im.gs.MC.5.16v1

# AROUND QUEEN'S PARK



by **ASHLEY DE SOUZA**  
Director, Government Relations

**T**here is plenty on ORBA's agenda for 2016; yet strengthening ties with our government and industry partners remains a core objective.

This spring, association staff and ORBA's Board of Directors took another step towards that goal by hosting the 2nd Annual Queen's Park Reception on May 9. Emceed by ORBA President Allan West, the reception welcomed 40 MPPs and 200 guests, including Metrolinx President Bruce McCuaig, Infrastructure Ontario Executive Vice President Chris Gauer, and Senior Vice President David Morley, and NDP Leader Andrea Horwath. The evening also featured keynote addresses from Michael Harris, Taras Natyshak, and Ontario Minister of Transportation Steven Del Duca.

Thanks to the organizers' efforts and attendee support, the reception was successful in uniting provincial ministers, MPPs, ministry staff, and ORBA representatives under one roof to share ORBA's story and enhance its profile amongst key provincial players. Additionally, the non-partisan event brought much-deserved attention to our members' contributions, as well as key themes such as the importance of infrastructure investments, early tender calls, and the health and safety of everyone in the industry.

On the topic of health and safety, ORBA is proud to announce the launch of its Site Unseen road safety campaign, developed with financial support from members. This province-wide PR campaign will raise awareness for summer construction work and encourage drivers to stay alert and safe when passing through road construction zones. To do that, ORBA has retained the reputed FleishmanHillard PR firm to develop a fully-integrated public campaign that includes materials and support for individual member companies.

## **OPEN FOR BUSINESS ROUNDTABLE RESULTS**

This March, we concluded the Joint Government of Ontario-ORBA Open for Business Roundtable with a closing session at the Ontario Investment and Trade Centre. Chaired by Peter Milczyn, Parliamentary Assistant to the Minister of Economic Development, Employment and Infrastructure, the roundtable generated actionable outcomes for five critical issues:

## **1. OVERSIZE / OVERWEIGHT (O/O) PERMIT APPLICATION PROCESS**

**Request:** Address concerns identified with current O/O permit wait times by enhancing and improving permit application processes.

**Outcome:** The Ministry of Transportation (MTO) plans to introduce legislation that will allow for the use of non-police escorts to accompany over-dimensional loads that currently require police escorts. It has also identified quick-win opportunities to improve the service experience of customers and will continue to examine the current work flow processes to identify streamlining opportunities that can be implemented in the medium-term to allow for more flexible permitting options. Finally, an Oversize/overweight (O/O) Permitting Process review of longer-term options will be explored.

## **2. RECYCLED AGGREGATES:**

**Request:** ORBA wants the Province to prevent public sector owners (including municipalities) from refusing to consider a construction bid for work, or refusing to enter into a contract with a company, because they propose to use recycled aggregates.

**Outcome:** Both the MTO and ORBA agree that education and outreach is required to raise awareness among municipalities for the economic and environmental benefits of recycling construction materials. Together, we will reach out and present provincial recycling best practices and successes to municipal partners. ORBA is also working with the Ontario Good Roads Association to identify an appropriate municipal forum(s) for MTO to share both its experience and success in the area of recycling with a targeted audience of municipal staff. As well, ORBA is seeking municipal examples of success in the area of recycling which will complement MTO's success in this area.

## **3. & 4. SPECIES AT RISK: CONTRACTING AND INFORMATION**

**Request:** ORBA seeks clarification and additional information for contractors on species at risk (SAR) for bidding purposes during the tendering process, for issue resolution during project implementation, and identifying SAR habitats.

**Outcome:** MTO and ORBA agreed on six principles to address Open for Business discussions. They include exploring payment options for situations related to SAR that are difficult for a contractor to include in a bid, exploring opportunities to provide clarification to all relevant parties on how compensation for SAR is currently administered in contracts, and providing available SAR documents at the time of tender and - where applicable - an indication that additional information will be provided after contract award. We further agreed on providing a timely meeting early in the contract to discuss SAR requirements and provide any additional information for contracts with SAR requirements (with an invitation to MNRF to attend), involving the contractor more actively in the resolution of SAR-related contract administration issues through all party meetings, and exploring means of establishing a "real-time" continuous improvement process with all parties.

#### ORBA Kicks Off 2016 Construction Season with Premier Wynne and Minister Del Duca

On April 15, 2016, Ontario Premier Kathleen Wynne and Minister of Transportation Steven Del Duca kicked off the province's 2016 construction season in Mississauga. They were joined by ORBA Executive Director Geoff Wilkinson and ORBA Board of Directors members, who spoke about the economic importance of infrastructure investments in the province, noting a \$1 billion investment in Ontario's infrastructure generates and supports \$16.3 billion in GDP, and supports up to 85,000 jobs over the next 30 years.

Wilkinson also emphasized that proper investments in the maintenance and expansion of Ontario's roads, bridges, and highways creates jobs, helps reduce congestion, and places Ontario at a competitive advance.



Pictured at (left to right) ORBA Policy Analyst Nadia Todorova, Board Member Jim Hurst, Board Member Marlene Yakabuski, ORBA Director of Government Relations Ashley De Souza, ORBA Executive Director Geoff Wilkinson, Mississauga-Streetsville MPP Bob Delaney, Ontario Premier Kathleen Wynne and Ontario Minister of Transportation Steven Del Duca ORBA President Allan West, Board Member Tom O'Callaghan and Board Member Blair McArthur.

#### 5. PERMIT TO TAKE WATER / EASR

**Request:** ORBA wants the Ministry of Environment and Climate Change to provide greater clarity for water takings requiring a Permit To Take, and for the ministry to introduce streamlined processes for water takings associated with road construction and for construction dewatering purposes.

**Outcome:** The Ministry of the Environment and Climate Change will, through new regulations under the *Environmental Protection Act* (EPA) and the *Ontario Water Resources Act* (OWRA), provide clarity and streamline processes by defining activities that do not require a Permit to Take Water, exempting certain takings from requiring a Permit to Take Water, and enabling certain water takings (i.e. road construction) to be subject to a self-registration process on the Environmental Activity and Sector Registry (EASR) instead of requiring a Permit to Take Water. If approved, the regulations could be in force for this construction season (as early as April).

2016 is an important year for ORBA and its members, and our ability to seize the opportunities at our doorstep will depend on our industry relationships. We encourage members to get involved in building those relationships, either through a role in one of ORBA's committees or volunteer with one of its many initiatives. Of course, we also welcome your questions and feedback, so please don't hesitate to contact me directly at [ashley@orba.org](mailto:ashley@orba.org) or by phone at 905-507-1107 ext. 223. ■



- Guide Rail Installation & Repairs
- Temporary Concrete Barrier and Attenuators
- Noise Walls – Concrete, Vinyl and Wood
- Steel and Timber Ground Mount and Breakaway Signs
- All types of Fencing, Gates and Controllers
- Pedestrian Bridges and Retaining Walls
- Golf Courses, Parks and Playground Construction

2055 Kottmeier Rd RR #1  
Fonthill, Ontario L0S 1E6  
Phone: 905-892-2661  
Fax: 905-892-4692  
[estimating@peninsula.ca](mailto:estimating@peninsula.ca)  
[www.peninsula.ca](http://www.peninsula.ca)



**I**t is widely recognized that Canada needs to take action against climate change, and progress is being made. This is especially crucial given Canada's greenhouse gas emissions in 2014 were 20 per cent above 1990 levels. Ontario managed to decrease its emissions during that time period, but more work needs to be done regardless.

Concern for the environment is something very dear to the Ontario Road Builders' Association and it champions measures to reduce the environmental impact of the work of the road building industry. It does this through encouraging its members to adapt and develop green technologies, and even has awards in place for those that do. As well,

ORBA is committed to providing its members with educational opportunities so they can learn about the latest advances in technology and regulatory issues that will impact their business.

Some of the green technologies being used by ORBA members include recycling asphalt, which helps reduce

the amount of materials needed on a road building project. The use of GPS tracking is helping to reduce vehicle idling, and in turn, greenhouse gas emissions. Another example is the use of diesel pile driving hammers that burn cleaner, which are manufactured by Hamilton-based Bermingham Foundation Solutions. As a marine contractor, Bermingham uses a vibratory hammer with vegetable oil-based lubricant, rather than regular hydraulic fluid, which is much better from a toxicity to marine life standpoint.

As part of its efforts to encourage ORBA members to be leading adaptors and innovators of green practices, ORBA – in partnership with the Ministry of Transportation of Ontario (MTO) and the Ontario Good Roads Association (OGRA) – offers a Green Leadership and Sustainability Award, which recognizes the efforts of ORBA members who further the objective of environmental protec-

## IDENTIFYING ENVIRONMENTAL ISSUES OF INTEREST

ORBA's Environment Committee monitors and responds to government regulations and identifies environmental management issues that will have an impact on its members. Through providing information and education opportunities, ORBA ensures its members are up to date on the latest environmental matters that will impact their business. The committee meets quarterly and semi-annually with representatives from the Ministry of Transportation of Ontario (MTO).

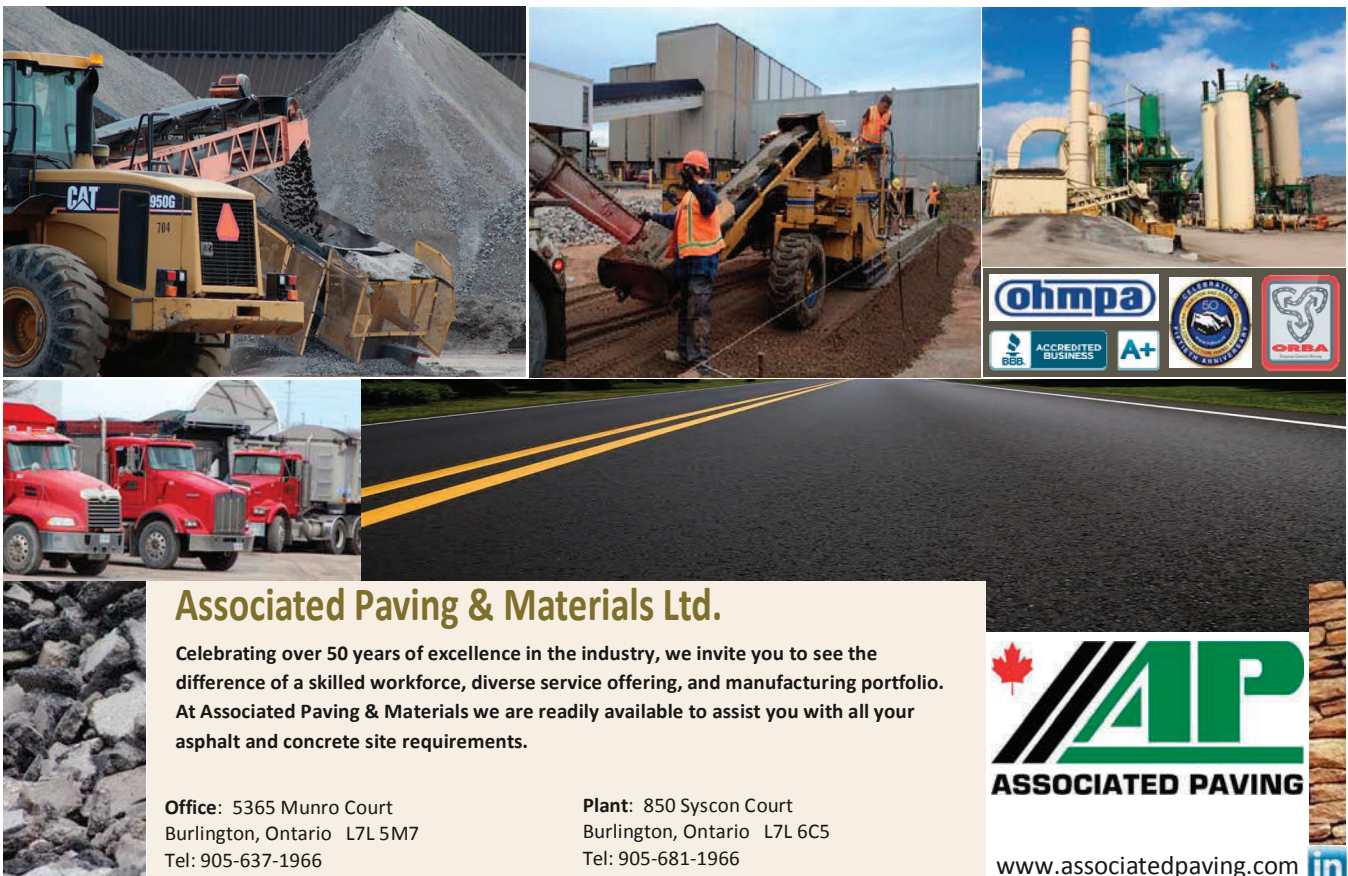
tion and sustainability. The award is handed out at ORBA's annual convention in February and one Outstanding Achievement award is handed out, while Honourable Mention awards are given to those who meet eligibility criteria and demonstrate a commitment to continuous improvement. The award is open to all ORBA members.

### OPEN FOR BUSINESS ROUNDTABLE

At its December 2015 "Open for Business Roundtable," ORBA presented

a list of five topics for discussion – four of which included issues directly related to environmental issues. On the agenda: contractor exclusion for using recycled aggregates; species at risk consideration; and obtaining water permits under Ontario's Environmental Activity and Sector Registry (EASR).

Developing solutions to these issues involved the participation of both provincial ministry staff and ORBA members. Separate groups were



**Associated Paving & Materials Ltd.**


Celebrating over 50 years of excellence in the industry, we invite you to see the difference of a skilled workforce, diverse service offering, and manufacturing portfolio. At Associated Paving & Materials we are readily available to assist you with all your asphalt and concrete site requirements.

**Office:** 5365 Munro Court  
Burlington, Ontario L7L 5M7  
Tel: 905-637-1966

**Plant:** 850 Syscon Court  
Burlington, Ontario L7L 6C5  
Tel: 905-681-1966

**ohmpa**  
BBS ACCREDITED BUSINESS A+  
CELEBRATING 50 YEARS OF EXCELLENCE  
ORBA

**AP**  
ASSOCIATED PAVING

www.associatedpaving.com 

## WHAT DOES CAP AND TRADE MEAN FOR ONTARIO'S ROAD BUILDING INDUSTRY?

Governments at all levels around the world have been moving to price carbon, the two main forms being cap and trade or a carbon tax. In April 2015, Ontario Premier Kathleen Wynne announced plans for Ontario to limit the main sources of greenhouse gas (GHG) emissions in the province through a cap and trade system. The Premier later announced plans to link this system to the existing cap and trade markets in Québec and California (under the Western Climate Initiative), with a start date of January 1, 2017.

In fall 2015, ORBA commissioned Dawson Strategic, an Ottawa-based research and consulting firm, to research the potential implications of Ontario's forthcoming cap and trade system for ORBA member companies. The main conclusion: while ORBA members are unlikely to be directly subjected to the emissions cap, there will be indirect costs for the industry in the form of fuel cost increases. However, counterbalancing some of the additional costs are new opportunities for companies to leverage GHG reduction initiatives.


Even the largest ORBA members are not expected to exceed the GHG emissions cap of 25,000 tonnes of CO<sub>2</sub> equivalent at the facility level. However, the construction and maintenance of transportation infrastructure across the province requires the burning of fossil fuels and companies should be aware of the estimated cost increases provided by the Government of Ontario for natural gas, gasoline, and diesel in the province.

The road building industry has already moved to adopt new technologies and processes that reduce fuel consumption in operations, and these initiatives will be further incentivized when there is a price on carbon in the province. Opportunities for funding may be available through the Greenhouse Gas Reduction Account or other avenues so that companies in the road building industry can leverage future environmental initiatives.

For more information, visit [orba.org/cap-and-trade](http://orba.org/cap-and-trade).

As part of its efforts to encourage ORBA members to be leading adapters and innovators of green practices, ORBA offers a Green Leadership and Sustainability Award

formed to tackle each item and each group had 60 days to present mutually-agreeable solutions - virtually all designed to help remove barriers and burdens to businesses in the road building industry; increase productivity while maintaining strong business practices; and continue to maintain high standards of production.


For detailed information about the outcomes of the "Open for Business Roundtable," see page 9 

### CAP AND TRADE

The province's latest budget included the implementation of a cap and trade system that will take effect on Jan. 1, 2017. This system aims to reduce greenhouse gas emissions through placing a cap on the amount that households, businesses and institutions produce. The trade aspect "refers to a market where companies can buy or sell carbon credits, also known as allowances. These credits

are linked to every tonne of greenhouse gas they emit (or do not emit)," says a posting on the province's website. Companies that exceed the cap can buy credits from ones that don't meet the cap.

Each year, the cap will decrease, thereby necessitating that everyone reduce their emissions. Cap and trade monetizes the incentive to reduce greenhouse gas emissions.

To better understand what this system will mean to Ontario's road builders, ORBA commissioned Dawson Strategic to find out. Its main conclusion was that members would likely end up paying higher fuel costs and wouldn't likely be directly affected by the emissions cap. Gas prices are expected to increase by about 4.3 cents per litre according to the 2016 Provincial Budget. (Read more of Dawson Strategic's findings in the box above. 



# GREEN AWARD



To recognize member companies annually for their environmental leadership and sustainability initiatives.

ORBA  
**HONOURS**

**Recognizing industry  
excellence.**

[orba.org/awards](http://orba.org/awards)

# OPEN FOR BUSINESS ROUNDTABLE



In December 2015, the Opening Roundtable discussion was held in Toronto and was chaired by Hon. Brad Duguid, Minister of Economic Development, Employment and Infrastructure, with representatives from Open for Business, lead provincial ministries and ORBA Board of Directors.

ORBA has taken other actions to prepare for cap and trade. In April, it submitted comments to the provincial government on its proposed regulations as part of a 45-day public and stakeholder comment window. In May, ORBA and Dawson Strategic held a webinar for its members that looked at Dawson Strategic's findings and highlighted opportunities that would exist for ORBA members going forward under a cap and trade program. The webinar can be viewed at [orba.org/](http://orba.org/)

cap-and-trade/, and copies of the PowerPoint presentation and Dawson Strategic's report can also be found at that same link.

At present, the province is working on draft regulations on the potential offsets of the cap and trade program. Once those draft regulations are released, ORBA will be working with Dawson Strategic to provide industry feedback. ■

**BUILDING. TOGETHER.**

**THEY SAY TO LET SLEEPING DOGS LIE.  
NO MENTION OF CATS THOUGH.**

**PRESENTING THE 1050K. A WAKE-UP CALL FOR THOSE  
WHO'VE RESTED ON THEIR LAURELS LONG ENOUGH.**

Deere designed. Deere manufactured. And backed by a robust service and parts program dedicated exclusively to the production-class market. For more details, call or visit your nearest Nortrax location.



**NORTRAX**  
[www.nortrax.com](http://www.nortrax.com)

Nortrax is a proud sponsor of the  
Ontario Road Builders Association

[JohnDeere.com/PushBack](http://JohnDeere.com/PushBack)

## THE ROAD AHEAD

As is the case with the difficulties of measuring the benefits of sustainability practices in business life – so it goes with roadways. Much progress, however, has been on that front through international organizations such as Greenroads, headquartered in Washington State. Through the Greenroads rating system, measuring and managing sustainability on the transportation projects is their raison d'être. The system challenges construction teams to go above and beyond minimum environmental, social and economic practices with an independent, third-party review.

For more information, visit [www.greenroads.org](http://www.greenroads.org).

## RECYCLE AND RECOVER BUILDING MATERIALS EASILY

# TOMLINSON

FOUNDED ON **STRENGTH** GUIDED BY **VISION**

The Tomlinson Waste Recovery Centre is a world-class construction materials recycling and recovery centre that opened in Ottawa in May. The centre is a resource for both the local construction industry and homeowners and aims to divert at least 80 per cent of construction materials that are processed at the centre, such as aggregates, rock, concrete, metals, wood, cardboard and plastic.

Up to 500 tonnes of construction debris and remnant materials can be processed at the centre per day, which will have a side effect of prolonging the lifespans of local landfills.

According to an April 24 Ottawa Community News article, the centre uses screening technology that includes air-pressure separation for primary sorting, while staff screen the materials at the secondary level. The facility is open Monday to Saturday.

# We've Got You Covered

## SALES-SOLUTIONS-SERVICE-SUPPORT



MAVinci  
Sirius Pro  
UAV



GLS-2000  
Laser Scanner



IP-S3 Mobile  
Mapper



1050 Stacey Court, Mississauga Ontario L4W 2X8 905-238-5810



# Powell Contracting Ltd.

*One Source • One Call • One Responsibility*

**Powell Contracting Limited has become the leader in our industry by providing Southern Ontario with the supply and installation of concrete barriers, noise barriers, crash cushions, guide rails, ground mount signs, overhead signs and sign structures.**

180 Ram Forest Road, Gormley, Ontario L0H 1G0

Ph. 905.727.2518

Fax. 905.727.1229

[www.powell.ca](http://www.powell.ca)



**Our Business  
is Your Safety**

Established in **1980**, **Lecol** has become a **key distributor** of **Road Safety Products** in **Canada**.

We work hard to **provide** the industry with the **safest**, most **innovative** products available.

**Products** that are designed to **reduce** the likelihood of serious injuries on our **roads** and **highways**.



Guide Rail



Tactile Plates



Sign Posts



Crash Cushion

Ph. 905.727.3948

Fax. 1.888.785.6607

180 Ram Forest Road, Gormley, Ontario L0H 1G0

[www.lecol.com](http://www.lecol.com)



- Excavation Shoring
- Shotcrete Shoring
- Caissons
- Micropiles
- Driven Piles
- Sheet Piles
- Helical Piles
- Underpinning
- Jet Grouting
- Tiebacks / Rock Anchors



**Gaetan Mondoux, P. Eng**  
President  
Cell: 905-299-4864  
Email: [gaetanm@blackrockfoundations.ca](mailto:gaetanm@blackrockfoundations.ca)

**Jason Chow**  
Chief Estimator  
Cell: 519-584-4361  
Email: [jasonc@blackrockfoundations.ca](mailto:jasonc@blackrockfoundations.ca)  
**[blackrockfoundations.ca](http://blackrockfoundations.ca)**



# GREEN TECH ENVIRONMENTAL LEADERSHIP AND SUSTAINABILITY IN ROADBUILDING

by RICHARD WOODBURY

**L**ike all industries, the road building industry recognizes the need to be greener to help reduce greenhouse gas emissions and fight climate change. There are numerous ways of doing this.

### BERMINGHAM FOUNDATION SOLUTIONS

For Hamilton-based Bermingham Foundation Solutions, the company is effecting change in a different fashion than many of its peers because it's both a manufacturer and contractor. The company's products include manufacturing diesel pile driving hammers and it's also a foundation contractor who works on building bridges, wharves and docks.

Company president and CEO Peter Smith says its pile drivers differ from regular diesel hammers because they use a high-pressure fuel injection system that burns much cleaner. As a result, the people using the hammers don't go home covered in diesel at the end of their shifts. "Their clothes would be filthy," says Smith.

As well, regular diesel hammers tended to leave huge oil sheens when used around water. "When you're working near the water, you have to be extra vigilant to control spills," says Smith.

One other benefit of Bermingham's diesel pile driving hammers is they allow for greater control of the hammer, allowing users to drive a

pile as easily or as hard as they want. Smith says traditional pile hammers operated in more of an on-off fashion, thereby offering less control.

Smith says today in Ontario, most road contractors use high-pressure diesel hammers.

As a marine contractor, Bermingham drives a lot of piles and sheet piles on or near water. These sheet piles are installed with a vibratory hammer that uses a vegetable oil-based lubricant, rather than a regular hydraulic fluid. Smith says the decision was made about a decade ago to make the switch. "That way, if there's a leak or the line is cut, what ends up being discharged in the water is actually food-grade vegetable oil," he says. Should a leak or spill occur, this food grade lubricant meets *U.S. Environmental Protection Act* guidelines for toxicity to marine life.

Smith says the use of vegetable oil-based lubricants is costlier and the oil must be replaced more often. With about 1,000 litres of oil in the vibratory hammer, switching the oil is not a small or cheap task, but is worth it to minimize potential environmental impact, says Smith.

### GPS TRACKING

Just how contractors use their vehicles is an important part of reducing one's environmental impact. One easy way to reduce emissions is to cut down on the amount of idling one does in their vehicle. Tech-

It's not what we do that makes us different, it's how we do it

Surety Solutions  
Built Your Way

Learn more about our  
Contract, Commercial and  
Developer Surety products  
at [www.trisura.com](http://www.trisura.com)

**TRISURA**  
a step above

Trisura Guarantee Insurance Company is a Canadian owned and operated Property and Casualty insurance company specializing in niche insurance and surety products. We are a proud supporter of the Insurance Broker's Association of Canada.

nology can help with this. PinPoint GPS Solutions in Mississauga offers GPS fleet tracking software to offer drivers real-time reminders about their idling.

“We find that the real time driver feedback mechanism is a great way of enlisting the support of the drivers without the traditional risk of conflict between management and labour. One of the earliest customers to make use of this tool was R. W. Tomlinson,” says Bob Farrell, VP Sales Operations, PinPoint GPS Solutions.

Clients can set time limits and when a vehicle has been idling for a certain period of time, an alarm will beep to notify the driver that they are idling. If the driver doesn’t stop idling, the alarm will continue to beep. Besides the environmental benefits, cutting down on idling helps increase a company’s bottom line because it will spend less on fuel.

“After the first year of deployment, R. W. Tomlinson, was in contention for an ORBA award because of the reduction in idling, and the related greenhouse gas emissions.

Customers like R. W. Tomlinson have learned that these systems are not just for tracking vehicles, or reducing speeding or idling. They are actively looking at integration of our GPs products with other technologies such as Bluetooth beacons to assist in increasing workplace safety and facilitating near real time job costing,” says Farrell.

**RECYCLED AGGREGATES**

Aggregate Recycling Ontario (ARO) was established in July 2011 to provide a unified platform for industry stakeholders that recover, recycle and consume aggregate materials in Ontario. The organization was formed by industry associations including ORBA and individual member companies to bring attention and find a solution to the province’s growing aggregate piles, as well as expand the opportunities for recycling aggregates.

Across the province, millions of tonnes of aggregate recovered from construction sites are stock-piled ready to be used in new road constructions projects. Although the provincial government - through the Ministry of Transportation - and some municipalities have been leaders in using recycled aggregates for several years, many municipalities’ specifications do not allow for recycled aggregates to be used in construction projects. Processed

properly, recycled aggregates can meet all performance requirements and offer a suitable alternative to primary aggregates.

These examples show some of the ways the Ontario road building industry is minimizing its environmental impact through the materials it uses and how it carries out its business on a day-to-day basis. In the coming years, sustainable practices will be embedded more and more into how the industry operates. ■



Infrastructure is in our DNA

DECAST Ltd. is leading the Canadian infrastructure market, including water transmission, bridges, storm and sanitary, tunneling and engineered precast products.

Since 1989, the company has continually expanded, adding new products and entering new markets. Today, DECAST is the largest manufacturing facility for infrastructure products in Canada.

Most extensive product line in the industry

- PRESTRESSED CONCRETE CYLINDER PIPE AND FITTINGS
- VALVE AND UTILITY CHAMBERS
- STEEL PIPE AND FITTINGS
- BRIDGE GIRDERS
- DE-SPAN®
- BRIDGE SUPERSTRUCTURE AND SUBSTRUCTURE
- TUNNEL SEGMENTS
- BOX CULVERTS
- REINFORCED CONCRETE PIPE
- MAINTENANCE HOLES & CATCH BASINS
- INTEGRATED FRAME & COVER MH SYSTEM (IFC)
- HEADWALLS
- RAILWAY / SUBWAY TIES

**DECAST**

Leading Infrastructure Solutions

T 705.734.2892 8807 County Road 56  
 TF 800.461.5632 Utopia, ON L0M 1T0  
 F 705.734.2920 [decastltd.com](http://decastltd.com)



Red-tinted pavement along the Highway 7 East rapidway in Markham.

# RESCUE BY RAPIDWAY

## AS VIVANEXT ATTEMPTS TO CUT THE COMMUTE

by RICHARD WOODBURY

This article is the fourth of a new series profiling Ontario's key transportation infrastructure projects.

There's better awareness today that the solution to reducing traffic congestion is not to build more roads, and both extensive research and worldwide experience have shown this. Traffic congestion is a major problem in the Greater Toronto Hamilton Area (GTHA). According to the province, the

average commute for a GTHA resident is 82 minutes per day from home to work, which it says is longer than "many major international cities, including Los Angeles." Investing in public transit is seen as the key way of reducing congestion.

In York Region, work is underway on a massive \$1.8 billion project

that will see 34 kilometres of rapidways constructed. These dedicated median lanes will serve as the road network for bus rapid transit (BRT), which provides fast and convenient transit service to people. "Rapidways will allow Viva vehicles to zip past congested traffic," says a posting on vivaNext's website.

This type of system has other benefits. “Because it’s built on roads, it offers some flexibility and is faster and less costly to build than rail-based transit. BRT has a higher passenger capacity [ridership], and more frequent service than conventional bus service, carrying up to approximately 8,000 passengers per hour. Light rail and subway are generally considered where future ridership is expected to be higher,” says vivaNext’s website.

VivaNext is the name of the plan to bring true rapid transit to York Region and connect with transit systems in the GTHA. VivaNext consists of bus rapid transit, subway extensions and light rail transit. The common thread among these three systems is they provide fast, frequent service, can move a lot of people, and run on their own dedicated lines or tracks, says the website. “Viva rapidway service will be at least as frequent as viva service is today, with vehicles arriving every five to 10



Rapidway projects include updated utilities, tree-lined sidewalks and bike lanes where possible.

minutes during weekday rush hours, and no less than every 15 minutes the rest of the time. As more people take viva, service will become even more frequent to meet the need,” it says. As well, because bus rapid transit gets traffic signal priority at all signalized

intersections, this helps ensure bus rapid transit is a fast travel option and gets people to where they need to be quicker.

VivaNext will reduce traffic congestion, reduce sprawl and encourage sustainable choices, says Paul

### Who’s working on the bus rapid transit project?

A project of this scope requires a large and dedicated team to work together to bring it to fruition. Some of the companies involved are:

- Project manager – EllisDon, Kiewit
- Engineer – EllisDon, Kiewit, AECOM, IBI Group, McCormick Rankin, MMM Group, Parsons, Ecoplans Limited
- Construction manager – Aecon, Hatch, Morrison Hershfield
- Suppliers – DECAST, Nova Bus, Van Hool, Canam Group
- Design build finance (DBF) team – Ellis Don, Coco Paving, IBI Group, LEA Consulting, Peto MacCullum Ltd.
- Other – Aon, Golder Associates, BTY Group, Infrastructure Ontario, Morrison Hershfield, Hanscomb, Ecoplans Limited, Revay and Associates, Entro Communications, SPL Consultants, LeighFisher, INTECH Risk Management, KPMG
- Legal – McCarthy Tétrault LLP, WeirFoulds LLP



**143 Toryork Drive  
Toronto, Ontario M9L 1X9**

- Emergency Road Services and Rapid Clearing
- Sweepers / Magnetic Sweepers
- Pressurized Water Trucks
- Traffic Control Crash Trucks
- Loaders with Quick Attach Buckets, Clamps and Forks
- Dump Trucks and Roll-offs
- Skid Steers and Excavators
- Bulk Salt Sales

**416.741.4141**

[Centennial@CentennialSweeping.com](mailto:Centennial@CentennialSweeping.com)  
[www.centennialsweeping.com](http://www.centennialsweeping.com)

EllisDon and Coco Paving (Coco) have ventured together as a project team to design, build and finance the next phase of the vivaNext Bus Rapid Transit (BRT) expansion program in York Region, Ontario. This project is being delivered as a public-private-partnership under the provincial "Alternative Financing and Procurement" model. At nearly 15km in length, the project is one of the largest to date within the vivaNext portfolio. Construction is slated to commence in the summer of 2016 and the overall experience has been good with positive collaboration amongst all parties. Coco is participating through all key aspects on the project including design development, utility coordination, and as heavy civil constructor. The unique delivery model of the project has fostered partnerships with many public stakeholders from concept through to construction. The major scopes of work include utility coordination and relocation, earthworks, extensive sewer and watermain upgrades, bridge work over major highways, asphalt paving (including red), structural concrete, linear concrete works, electrical/ITS works, and complex traffic management in a high density urban environment.

- Mathew Raso, P.Eng,  
Lead Project Manager, Infrastructure, Coco Paving

May, chief engineer for the York Region Rapid Transit Corporation. As well, it will help prepare for future growth along key corridors in York Region's centres, namely Newmarket, Richmond Hill, Markham and Vaughan. It will do this in part because it will connect to other transit services, both within the York Region Transit system, GO Transit, the TTC, Brampton Transit and others.

The 34 kilometres of rapidways being constructed will be dedicated lanes located in the centre of the road and will only be used by Viva vehicles, although police, fire and ambulance services will be able to use the rapidways to respond to emergencies. Interestingly, spillover effects have resulted because of this, including improved response times to emergencies. The design of the roadway itself has also meant traffic safety has increased and York Regional

Police are "reporting a significant decrease in the number of collisions," says May.

Stations are being placed every kilometre or so along the rapidways and passengers have access to them at intersections. As part of the 34 kilometres of rapidways being constructed, there will be 38 of these stations. Work on both aspects of the project is more than one-quarter complete. To date, the Highway 7 easy and Davis Drive rapidways are both open for service, meaning 8.6 kilometres of rapidways (25 per cent) and 15 vivastations (39 per cent) have been completed.

The project includes many new, interesting technologies. VivaNext's rapidways use red-pigmented asphalt, which clearly identifies the lane as bus only. As well, the asphalt is specifically designed to withstand a changing climate, an especially valuable trait given Ontario's hot summers and cold winters.

The vivastations themselves have an array of features. For those cold Ontario winters, the stations have waiting areas with motion-activated heaters. In the summer, the coated glass will reflect heat from the sun, helping keep the temperature down, providing a cooler experience for the short wait commuters face. Riders



**Viking Cives Ltd.**

**Ontario's leading manufacturer of innovative and dependable snow & ice control equipment**

**Mount Forest, ON 1.888.610.SNOW [www.vikingcives.com](http://www.vikingcives.com)**

will always know when the next bus is coming, thanks to variable-message signs that provide riders with real-time information on arrivals. The stations will have security surveillance and emergency call buttons.

Concern for the environment is paramount with the project and shows up in many ways. "Each rapidway project includes wide, tree-lined sidewalks and bike lanes where possible, helping to build sustainable communities and complete streets," says May.

As well, soil cells have been constructed under the sidewalks and boulevard areas to provide additional soil volume to support tree growth. More trees have been planted than removed. VivaNext says it will be planting more than 1,000 trees, 11,700 shrubs and 11,300 ornamental grasses.

Not surprisingly, this is a complex project involving many stages. "Carrying out the work in a way that minimizes disruption to businesses, the neighbouring community and local traffic, requires very detailed planning and careful sequencing," says vivaNext's website. Some of the tasks it says that must be performed are:

- "Relocating hydro poles and lines, as well as other utilities
- Moving and building retaining walls
- Clearing land acquired for the road widening
- Civic work: culverts and bridges
- Widening the road
- Paving and painting the roadway
- Putting in new sidewalks and boulevards
- Installing the new vivastations and platforms
- Landscaping both the medians and boulevards."



CONSTRUCTION & MUNICIPAL SIGNS



PORTABLE SIGNS



CONSTRUCTION DELINEATION



INTELLIGENT SIGNS & SMART WORK ZONES

## WORK ZONE SAFETY & COMPLIANCE SPECIALISTS

24/7 On-Call Equipment Delivery Service  
Book 7 Traffic Protection Plans • Sales, Rentals and Service

**Concord (GTA)**  
130 Creditstone Road  
Tel: 905-669-2360

**Vaughan**  
50 Roysun Road  
Tel: 905-669-2360

[stinson.ca](http://stinson.ca)



### HUTCHESON QUARRY

(Granite Meta-Gabbro)

Your source for Quality FC (Friction Course) paving stone in central Ontario and the GTA

- SP FC 1
- SP FC 2
- Ottawa type sand
- HL 4 and HL 3 modified

**LOCATED IN HUNTSVILLE** (200KM north of the GTA, on Hwy. 11)  
*Serving Central Ontario Road Builders*  
1-800-461-5521 • [donm@hutchesonsand.com](mailto:donm@hutchesonsand.com) • 1-705-789-4457



Viva stations designed with international architecture in mind.

The project is also giving consideration to heritage areas by preserving and protecting them. No rapidways are planned through the historical areas of Yonge Street in downtown Richmond Hill and Aurora.

As much as the focus is on speeding up travel times, the rapidways are part of a plan to make communities more pedestrian friendly, says vivaNext's website. It says the design will include "landscaped boulevards and medians, more welcoming pedestrian-friendly public spaces,



The Davis Drive rapidway in Newmarket, recently opened for service.

## EQUIPMENT RENTALS • SALES • SERVICE



**FOR PROJECTS BIG & SMALL  
WE'VE GOT YOU COVERED**



**28 LOCATIONS ACROSS ONTARIO**

**(844) 822-1111**

**CRSRENTS.CA**

and wider sidewalks with attractive benches and lighting.”

While vivaNext projects have a total price tag of \$3.2 billion, \$1.8 billion of that is specifically for bus rapid transit projects, which are located on Highway 7, Yonge Street and Davis Drive in Markham, Richmond Hill, Vaughan and Newmarket. The money will go toward road widening for rapidways, vivastations along each corridor, and new facilities, terminals and vehicles. Federal, provincial and regional sources are paying for the work, which is expected to be completed by the end of 2021.

The bus rapid transit project is just one part of a massive investment taking place in public transit in the area. Other projects not falling under the bus rapid transit project include:

- A recently completed state-of-the-art transit service facility in Richmond.
- A park and ride facility in Newmarket at Davis Drive and Highway 404 has opened.
- A bus terminal is being built in Vaughan, opening to coincide with the completion of the Toronto-York Spadina Subway Extension.
- A bus terminal is being built in eastern Markham, to be completed by the end of 2017.
- Park and ride projects continue to be planned, in line with York Region’s transportation plans.

There is much enthusiasm for the bus rapid transit project within the York Region. Research carried out for York Region Transit by Forum Research in 2015 found in communities where rapidways are in service, over 80 per cent of residents believe the project has added value to their community and has increased their quality of life.

The project is one that will leave a lasting legacy. “Those who live, work and travel in York Region will have more choices in how they travel and will live in a cleaner environment thanks to more transit use and fewer cars on the road,” says May. ■



**GET MORE.  
DO MORE.**

**LIEBHERR**  
1 800 363-7950 WWW.LIEBHERR.CA



**A partner you can trust**

Managing the success of your construction business can be challenging in today’s evolving marketplace.

When you partner with Aviva for your surety needs, you can count on us to provide you with:

- Expert advice and consultation for your specific project
- Our commitment to help you meet your business goals
- A stable partnership focused on the long-term

With more than 100 years of expertise behind us, you can trust Aviva as your valued business partner.

**Contact your broker to learn more.**

 **AvivaCanada.com**    

Home | Auto | Leisure & Lifestyle | Business | Group | Surety

Aviva and the Aviva logo are trademarks used under license by the licensor.



# FACTS & FIGURES

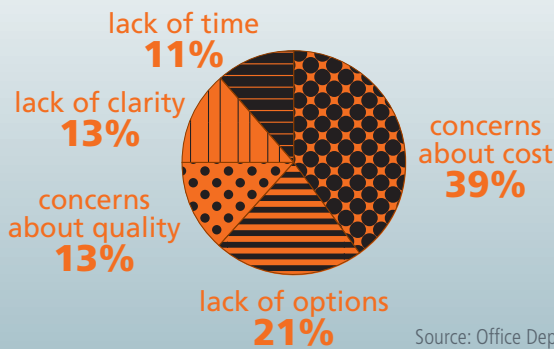
## WHERE DOES ONTARIO RANK ON ENVIRONMENTAL PERFORMANCE ACROSS THE COUNTRY?

Environmental Indicators	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.
Nitrogen oxides emissions	D <sup>-</sup>	B	D <sup>-</sup>	C	B	A	C	D <sup>-</sup>	D <sup>-</sup>	D
Sulphur oxides emissions	B	A	D	B	A	A	D <sup>-</sup>	D	C	A
VOC emissions	D <sup>-</sup>	D	D	D	C	B	D	D <sup>-</sup>	D <sup>-</sup>	C
PM <sub>10</sub> emissions	D <sup>-</sup>	D <sup>-</sup>	D <sup>-</sup>	D <sup>-</sup>	D <sup>-</sup>	C	D	D <sup>-</sup>	D <sup>-</sup>	D
Waste generation	C	n.a.	A	B	C	B	D	D	D	B
Wastewater treatment	D <sup>-</sup>	A	D <sup>-</sup>	C	B	B	B	A	B	C
Water withdrawals	D	A	A	B	B	A	A	A	C	B
GHG emissions	C	B	D	D	A	B	C	D <sup>-</sup>	D <sup>-</sup>	B
Low-emitting electricity production	A	A <sup>+</sup>	D	B	A <sup>+</sup>	A	A <sup>+</sup>	D	D <sup>-</sup>	A
Energy intensity	C	D <sup>-</sup>	D	D <sup>-</sup>	D <sup>-</sup>	D	D <sup>-</sup>	D <sup>-</sup>	D <sup>-</sup>	D

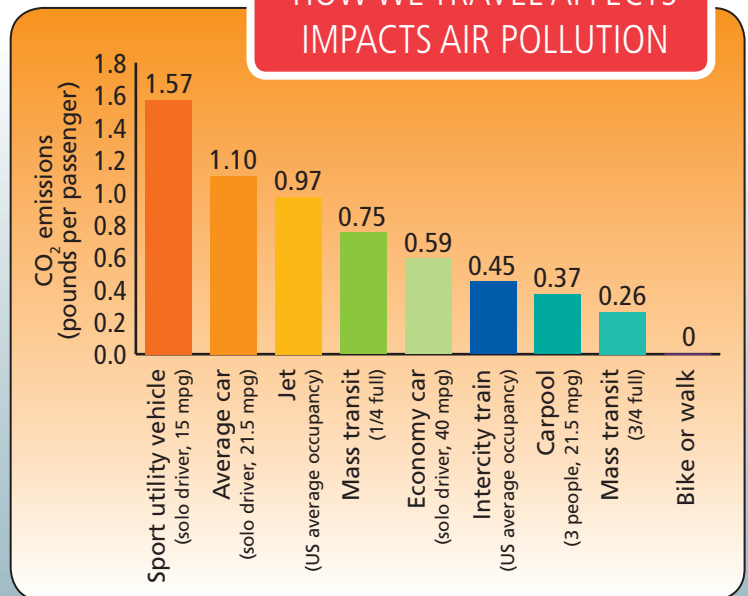
For more information, visit [www.conferenceboard.ca/hcp/provincial/environment.aspx](http://www.conferenceboard.ca/hcp/provincial/environment.aspx).  
Source: The Conference Board of Canada.

## HOW YOUR COMPANY CAN BE MORE SUSTAINABLE

### THE CHALLENGES BUSINESSES FACE TO GO GREEN



## HOW WE TRAVEL AFFECTS IMPACTS AIR POLLUTION



mpg – miles per gallon  
Source: Sightline Institute.

## HOW TO REDUCE THE ENVIRONMENTAL FOOTPRINT OF YOUR BUSINESS

- Improve use of natural light
- Invest in sustainable technologies
- Increase energy efficiency
- Use recyclable and reclaimed material
- Review travel policies to ensure more efficient use of resources
- Symbiotic relationships in local communities to reduce footprints

Source: Servicefutures.com

When you invest in Trimble  
construction technology . . .

**YOU  
MAKE  
MONEY**

**WE MAKE IT SEAMLESS**

SITECH: Your Complete Source for training, support and infrastructure of Trimble® construction technology across your jobsite and for your entire fleet of machines.



[www.sitechmidcanada.com](http://www.sitechmidcanada.com)

## Your Construction Technology Provider

SITECH Mid-Canada Ltd  
240 Bradwick Drive, Unit "A"  
Concord, Ontario L4K1K8  
Phone: 905-669-4773  
[sales@sitechmidcanada.com](mailto:sales@sitechmidcanada.com)

SITECH Mid-Canada Ltd  
360 Keewatin Street, Unit#45  
Winnipeg, MB R2X 2Y3  
Phone: 204-477-4677  
[sales@sitechmidcanada.com](mailto:sales@sitechmidcanada.com)

**SITECH**®

# NEW MEMBERS

## MUNICIPAL CONTRACTOR MEMBER



### Rafat General Contractor Inc.

Rafat General Contractor Inc. as a team of professionals involved in basic infrastructures, road rehabilitation and reconstruction, excavation, foundation, interior renovation, landscaping and snow removal etc. all over the Greater Toronto Area. We have a number of satisfied clients in public as well as private sectors in industrial, commercial, institutional and various local municipalities. Rafat has its own fleet of heavy equipment's that include small to large size excavators, hi-reach excavators, bulldozers, blades, backhoes and bobcats, disposal bins and trucks, compactors and proof rollers, etc. We have hired highly skilled workers to aim to deliver a high quality service in professional manner with a limited timeframe.

Carlo Salim, President  
 info@rafat.ca  
 (905) 951-1063  
 www.rafat.ca



### Pipeflo Contracting Corporation

PipeFlo Contracting Corp. is a pipeline maintenance and rehabilitation company that services the municipal, industrial and commercial business sectors. Innovation, experience and quality customer service explain why PipeFlo is a leader in the underground infrastructure industry continuously looking to improve and develop new methods and techniques to provide the very best products and services.

Julia Noble  
 julia@pipeflo.ca  
 (905) 572-7767  
 www.pipeflo.ca

## CONTRACTOR MEMBER

# POMERLEAU

### Pomerleau Inc.

POMERLEAU is a leader in the Canadian construction industry and among Canada's top general contractors. Pomerleau has 50 years of accumulated knowledge and experience in different construction sectors and has acquired a unique level of expertise in construction management and construction. The dedicated civil works department is active in the Transportation, Energy, Marine and Heavy industrial sectors.

Philippe Goulet, Regional Director  
 philippe.goulet@pomerleau.ca  
 (613) 244-4323  
 www.pomerleau.ca

## ASSOCIATE MEMBER

# DOZR

### Dozr Inc.

Dozr.com connects contractors that have equipment they aren't using with contractors who need it. Rent your idle equipment to verified contractors in between projects and in the off-season. Sell your equipment when you no longer need it. Find the equipment you need for up to 40% less than card rates! Free to join and free to list.

Kevin Forestell, CEO  
 kevin@dozr.com  
 Erin Stephenson, Co-Founder  
 erin@dozr.com  
 (844) 218-3697  
 www.dozr.com

# VBL ValleyBlades LIMITED



Ontario's #1 supplier for OEM replacement wear parts and ground engaging tools.

Daily deliveries to the G.T.A.



www.valleyblades.com

sales@valleyblades.com

1.800.461.1824



ASSOCIATE MEMBER



**The Graff Company ULC**

Established in 1965, The Graff Company ULC continues to expand its presence in the road grinding, profiling and grooving sector and servicing road constructors in the area of bridge and road rehabilitation. In addition to its grinding services, Graff employs over 50 service vehicle in the concrete cutting, coring, scanning and x-ray functions offering a wide array of service to constructors and trades in the Ontario market.

Paul Maysuik, General Area Manager  
 pmaysuik@graffconcrete.com  
 (905) 457-8120  
 www.graffconcrete.com



Ontario's Independent  
 Asphalt Cement Supplier

info@ajbraun.com

116 Hanson Ave. Kitchener On. N2C 2E2  
 (519) 745 5812 / fax: (519) 745 0271  
 www.ajbraun.com



Supplying Ontario Highways since 1945

- Guiderail • Cablerail • Thrie Beam • Bridge Drains • Bailey Bridge
- Railing • Bollard Gates • Ramp Closure Gates • Bridge Structural Steel
- Expansion Joints • Highway Breakaway Signs • Gratings • Cut Waters
- Galvanized Hardware • Aluminum Products • Manufacturing • Installations

# GREEN IS GOOD

by JIM PETERS



**W**hen Gordon Gekko (aka Michael Douglas) uttered the immortal phrase that “greed is good” in the hit movie *Wall Street*, his speech to shareholders reflected the times—the hedonistic eighties. Since then, of course, legitimate concerns about our planet’s future and environmental management in business life has become part of the cultural DNA. Today’s mantra is much more likely to be “green is good.”

But in a world where measuring the minutiae of everyday revenues and expenses are highly valued, what is the actual cost of implementing environmental policies within companies? Can these rules and practices be clearly defined? How do companies go about establishing

metrics and capital costs for going green? Where does one even begin?

These questions have circulated around the business community from the very beginning of the environmental movement. But in addition to the more nebulous branding and public relations benefits of establishing a green presence, there are actually many ways that businesses large, medium and small can measure the impacts of environmental policies.

Before getting to the specifics, a few generalities. The International Institute for Sustainable Development describes going green in terms of a journey and breaks down the equation into three broad, but essential, steps:

### REGULATORY COMPLIANCE

This is the place where many new companies begin and established companies stay current. Simply put, businesses must comply with the environmental regulatory practices of the local areas, municipalities, cities and provinces in which they practice. The key word is compliance and it is the duty of the company’s management to become well acquainted with the laws and guidelines that pertain to their business—or risk large financial penalties or even jail terms.

### ENVIRONMENTAL RISK MANAGEMENT

Next up on the sustainability journey, risk management is where businesses examine the uncertainties of environmental compliance. This step typically includes asking questions such as what are the costs of environmental clean ups and the risk of potential claims against the company. In order to minimize risks, many companies adopt a precautionary approach to their practices, often including the anticipation of potential accidents and the proactive prevention of same. This usually includes the adoption of health and safety practices and adopting overall environmental management systems. An important step in the process, risk management allows companies to save money by anticipating potential workplace and environmental hazards.

### SUSTAINABLE BUSINESS STRATEGIES

As the final phase in the sustainability journey, the creation of business strategies seeks to create a win-win-win scenario for the

# BRUELL

## CONTRACTING LTD

MUNICIPAL & PRIVATE

### POWERSWEEPING & STREETFLUSHING

OVER 60 YEARS' EXPERIENCE

37 SHORNCLIFFE RD., ETOBICOKE, ONTARIO  
416-239-1159 FAX 416-237-1392

### OUR ONLY “BS” IS BETTER SWEEPING

CONTRACT WORK  
PARKING LOTSCALL FOR  
YOUR FREE QUOTE  
UNDERGROUND PARKING

company (and its employees), customers and the environment itself. These strategies aim to achieve harmony between wealth creation, enhancing the company's competitive advantage, and achieving measurable benefits for the community and the company's stakeholders. Uncovering business opportunities—often by employing creative problem solving methods—form the bedrock of the third stage.

Many experts still agree that since the beginning of the environmental movement, it's still difficult to measure the benefits of environmental policies. In 2016, however, much more is known about the costs associated with going green and how, exactly, to measure it.

### START WITH UTILITIES

As is often the case with businesses of any size, a good place to begin an analysis is with measurable processes, such as energy usage or other utility costs. Ideally it's best to know the numbers before green measures are implemented but it's usually not impossible to backpedal because the records will be there. Using electrical consumption as an example, a good place to start is to determine the monthly costs for the previous 12 months. Just don't fall into the trap of averaging out the monthly bill—because of the seasonal variations in usage, you'll want to compare January to January and June to June in the years before and after energy improvements were made. Obviously, similar comparisons before and after can be made with water usage, natural gas consumption and even recycling.

The ways and means of reducing costs and going green are so commonplace and abundant that few households and businesses aren't implementing at least a few of these strategies, such as high efficiency furnaces, water restriction methods and reuse and recycle strategies.

Ultimately, of course, it may be the more intangible and

difficult-to-measure green strategies that generate the most profits. Young people seek out employment with progressive companies with strong environmental track records. So green businesses not only gain recruiting advantages but also keep employees more motivated and happy. There's a strong co-relation between sound environmental policy and improved company loyalties—corresponding to less sick time, better

employee retention and improved public image.

### LESSONS FROM POPULAR CULTURE

In the end, popular culture often provides as reliable a benchmark as hard research when it comes to measuring the cultural zeitgeist. A matured Gordon Gekko relates a different point of view in another speech in the 2010 sequel, *Wall Street: Money Never Sleeps*—"Greed is not good." A metaphor, perhaps, for our own maturing attitudes. ■



**Coco Group Inc.**

#### **Coco Paving Inc.**

*Paving the Way*

#### **Coco Asphalt Engineering**

*Supplier of Asphalt and Related Products*

#### **Coco Aggregates Inc.**

*Serving Your Aggregate Needs*

949 Wilson Avenue, Toronto, ON M3K 1G2

Phone 1-416-633-9670

Fax 1-416-633-6765

WEB <http://www.cocogroup.com>

#### **Russell Redi-Mix Concrete,**

*Manitoba and Saskatchewan*

# THINK OF THIS AS OUR OFFICE.



A CONSTRUCTION SITE IS NOT YOUR TYPICAL WORKPLACE. BUT IT'S STILL A WORKPLACE. The next time you're passing a road work site, please treat it with respect. Reduce your speed, merge safely and don't let your frustrations get the better of you. *It doesn't happen in your workplace and it shouldn't happen in ours.*



POMERLEAU

Aecon



TOMLINSON

FERMAR

LLOYD

WILLENEUVE

RITCHIEBROS.

northern



Coco Group



DIRECT

DRAGADOS

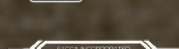
STINSON

Beacon Lite

DBI

BROADSPECTRUM

carillion



Duffin



GRAHAM

Aon

Toronto Zentis

POWER

EMCON

FE BTS CAPITAL

ORBA.ORG

#SiteUnseen

## ON THE ROAD

### MCASPALT INDUSTRIES LIMITED VISIT

FEBRUARY 26, 2016  
TORONTO, ON

Mike McLean, Marketing and Sales at McAsphalt Industries Limited (at left), welcomes ORBA Membership Manager, Richard Stamper, to the McAsphalt corporate office.



### CLOSING ROUNDTABLE OF THE ONTARIO TORONTO BURDEN REDUCTION PROJECT

MARCH 14, 2016  
TORONTO, ON



ORBA Government Relations Director Ashley De Souza (pictured second from the right in the back row) attended the Ontario Toronto Burden Reduction Closing Roundtable. ORBA was part of the initiative that identified opportunities to reduce burdens for Toronto businesses.

### 2016 CONSTRUCTION SEASON KICKS OFF

APRIL 15, 2016  
MISSISSAUGA, ON

ORBA attended the launch of the 2016 construction season in Mississauga. ORBA Executive Director Geoff Wilkinson speaks alongside (from left to right) Minister of Transportation Steven Del Duca, Ontario Premier Kathleen Wynne and Mississauga-Streetsville MPP Bob Delaney. For more on this story, see page 9.



### THE GRAFF COMPANY ULC VISIT

APRIL 19, 2016  
MISSISSAUGA, ON

Earlier this spring, ORBA met with (left to right) Shawn Galway, Account Manager, and Paul Maysuik, Area General Manager, The Graff Company ULC to welcome them as a new member to the association. For more about The Graff Company ULC, read the Member Corner feature in this issue.



# ROAD **Builder**

## PROFESSIONAL SERVICES DIRECTORY

A.J. Braun Mfg. Limited. ....  
[www.ajbraun.com](http://www.ajbraun.com)

Associated Paving .....  
[www.associatedpaving.com](http://www.associatedpaving.com)

Aviva Canada .....  
[www.avivacanada.com](http://www.avivacanada.com)

Blackrock Foundation Solutions Inc. ....  
[www.blackrockfoundations.ca](http://www.blackrockfoundations.ca)

BPT Components & Parts .....  
[www.bpt.ca](http://www.bpt.ca)

Bruell Contracting Ltd.

Canadian Asphalt Industries Inc. ....  
[www.canadianasphalt.com](http://www.canadianasphalt.com)

Centennial Sweeping .....  
[www.centennialsweeping.com](http://www.centennialsweeping.com)

Coco Group Inc. ....  
[www.cocogroup.com](http://www.cocogroup.com)

Contractors Rental Supply .....  
[www.contractorrentalsupply.ca](http://www.contractorrentalsupply.ca)

Decast Ltd. ....  
[www.decastltd.com](http://www.decastltd.com)

GeoShack North America Inc. ....  
[www.geoshack.com](http://www.geoshack.com)

Hutcheson Sand & Gravel .....  
[www.hutchensand.com](http://www.hutchensand.com)

Liebherr Canada Ltd. ....  
[www.liebherr.com](http://www.liebherr.com)

Liuna! Provincial District Council .....  
[www.liunaopdc.org](http://www.liunaopdc.org)

Nilex .....  
[www.nilex.com](http://www.nilex.com)

Nortrax Canada Inc. ....  
[www.nortrax.com](http://www.nortrax.com)

Ontario Barrier Wall Ltd. ....  
[www.ontariobw.ca](http://www.ontariobw.ca)

Peninsula Construction Inc. ....  
[www.peninsula.ca](http://www.peninsula.ca)

Peto MacCallum Ltd. ....  
[www.petomacallum.com](http://www.petomacallum.com)

Powell Contracting Limited. ....  
[www.powellcontracting.com](http://www.powellcontracting.com)

Roadtec .....  
[www.roadtec.com](http://www.roadtec.com)

Sitech Mid-Canada Ltd. ....  
[www.sitechmidcanada.com](http://www.sitechmidcanada.com)

Stinson .....  
[www.stinson.ca](http://www.stinson.ca)

Tomlinson Group .....  
[www.tomlinsongroup.com](http://www.tomlinsongroup.com)

Topcon Sokkia .....  
[www.sokkiacanada.com](http://www.sokkiacanada.com)

Trisura Guarantee Insurance Company .....  
[www.trisura.com](http://www.trisura.com)

Valley Blades Limited. ....  
[www.valleyblades.com](http://www.valleyblades.com)

Viking-Cives Ltd. ....  
[www.vikingcives.com](http://www.vikingcives.com)

Wajax Equipment .....  
[www.wajax.com](http://www.wajax.com)

### **TOMLINSON**

FOUNDED ON **STRENGTH** GUIDED BY **VISION**

**BERNIE BAX**  
 Sales Associate  
 Brechin Quarry

122 Miller Rd.  
 P.O. Box 127  
 Brechin, ON L0K 1B0  
 Tel: (855) 511-4266  
 Cell: (647) 884-6955  
 Fax: (705) 484-0083  
[bbax@tomlinsongroup.com](mailto:bbax@tomlinsongroup.com)  
[www.tomlinsongroup.com](http://www.tomlinsongroup.com)



### **Peto MacCallum Ltd.**

CONSULTING ENGINEERS

165 Cartwright Avenue, Toronto, Ontario M6A 1V5  
 Tel: (416) 785-5110 • Fax: (416) 785-5120  
[www.petomacallum.com](http://www.petomacallum.com)

**PAVEMENT DESIGN**  
**ASPHALTIC CONCRETE MIX DESIGN**  
**CCIL CERTIFIED LABORATORIES**  
**AGGREGATE SELECTION AND EVALUATION**  
**QUALITY CONTROL INSPECTION AND TESTING**

BARRIE, HAMILTON, KITCHENER, TORONTO

# PAVING THE WAY

## AN INDUSTRY- LEADING PARTNERSHIP

Wajax Equipment and Wirtgen Group are Ontario's unrivaled source for road building equipment that outperforms. From Pavers to Recyclers—and everything in between—we carry today's top brands, plus the service and expertise to back them up.

Visit us online to find your local  
Wajax Equipment branch.



877 469 2529  
[wajaxequipment.com](http://wajaxequipment.com)



[wirtgen.de](http://wirtgen.de)





EQUIPMENT

SALES • RENTALS • INSTALLATION

(416) 640-1442 • www.ontariobw.ca



- BARRIER WALL
- CRASH/IMPACT ATTENUATION
- TRUCK MOUNTED ATTENUATION
- CROWD CONTROL & FENCING
- ELECTRONIC TRAFFIC CONTROL
- LIGHT TOWERS
- SIGNAGE
- DELINEATION

