Don't make gravel travel

New provincial policies may increase the distance that gravel trucks must drive between the pit or quarry and their job site.

While some may argue the benefits of 'Not In My Back Yard', there are very real environmental and economic consequences of making gravel travel.

IF EVERY TRUCK HAD TO DRIVE JUST AN EXTRA 75 km TO AND FROM ITS JOB SITE...

Nearly 1,000,000 tonnes of extra GHG emissions would be generated annually OR the equivalent of emissions from 225.000 cars per year. To deliver that same 745 454 loads per day, extra trucks

would be required because of the increased distance. The cost of hauling aggregate would more than double - significantly affecting the budgets of every municipality in the province. Not to mention the effect on climate change.



An average truck uses 0.56 litres of diesel per kilometre which creates 0.0015 tonnes of CO2 emissions. Ontario averages 164 million loads of aggregate per year or 4.6 million loads in a 35 tonne truck. If every truck had to travel an extra 150 kilometres per load (to the job site and back), that would be 4.6 million loads x 150 km x 0.0015 tonnes = 1.062.720 metric tonnes of CO2.

Sources: NRCan / Member trucking statistics / TOARC



Protecting the **Environment**

- The aggregate industry in Ontario is safe, clean and environmentally responsible.
- The water that is used in the processing of stone, sand and gravel is recycled in a closed loop and is used again and again.
- Aggregate extraction is a very clean and largely mechanical process. No chemicals are used in the processing of aggregate.
- If every truck carrying aggregate were to travel just one less km to its jobsite, we'd save 2.5 million litres of fossil fuel - or 7.000 tonnes of greenhouse gases a year, which contributes to global warming.
- Keeping aggregate supply close to home saves you money. Trucking gravel from long distances is expensive. Every extra kilometre is a cost.
- The aggregate industry is one of the most highly regulated in Ontario, governed by more than 25 pieces of legislation and hundreds of regulations.

FIND OUT MORE

Visit GravelFacts.ca to learn more about aggregate in Ontario and to download OSSGA's complete GravelFacts

- Blasting
- Dust
- Rehabilitation
- Water Taking
- Water Management

For more information contact:

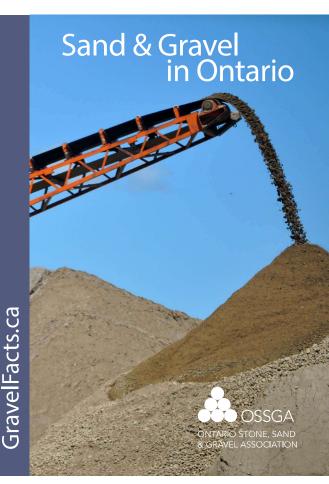
OSSGA

5720 Timberlea Blvd., Ste. 103 Mississauga, ON L4W 4W2 905 507 0711 GravelFacts.ca info@ossga.com

Rehabilitation

- The aggregate industry in Ontario does a good job of returning the land to nature, agriculture and recreational uses. In 2016, more than 1030 hectares of land were rehabilitated.
- A recent study showed that more than 293 hectares of aquatic habitat, equal to 1,849 NHL hockey rinks, have been transformed from rehabilitated aggregate sites, helping to preserve biodiversity in communities like yours.
- Christie Pits, the Royal Botanical Gardens, Toronto Brick Works, golf courses, and other beautiful green spaces like these in your community were once sand or gravel pits, where aggregates came from.





Why do we need Aggregate?

- everything stops. Aggregate is stone, sand and gravel. It's in the buildings where we live and work, the roads and sidewalks we drive and walk on
- It's used in water purification systems and it's what glass is made from
- lipstick, toothpaste, household
- We all use aggregate every day, but It is critical we all we don't stop to think about where it comes from, and how aggregate affects the economy and the environment in which we live.
- Demand for high-quality aggregate is growing, and new sources will
- requires that we not ship aggregate long distances.
- understand that everything starts with what's in the ground.
- This introductory fact sheet introduces some of the factors to consider when thinking about aggregate in

Economic Need

- million people in Ontario. billion tonnes of aggregate will be needed to build the The production of aggregates roads, schools, hospitals, homes and other public buildings that we all use.
- Ontario's aggregate industry contributes an estimated \$1.6 billion of GDP to the provincial economy.
- By 2041 there will be 18.2 The industry is essential to the \$38-billion construction industry To support this growth, 3.84 creating 357,000 jobs in Ontario.
 - directly employs 7,600 Ontarians, often in communities like yours.
 - Aggregate contributes to local economies through job creation and through the funding of hundreds of community sponsorship programs across Ontario.

Scarce Resource

- Just like gold, sand and gravel are scarce resources that can only be found where nature put them.
- Not all aggregate is the same. Using low quality sand and gravel means that instead of a bridge lasting 100 years, it may need to be rebuilt in 30.
- The availability of high-quality close-to-market aggregate is being depleted. New close-to-market supply is not being licensed at a sustainable rate because of increasing government restrictions.
- It is vital we find a balance to meet Ontario's growing aggregate needs

Although it is not always recognizable, sand and gravel is an essential part of almost everything we build in Ontario, providing resilience to concrete, asphalt, bricks, mortar and many other construction materials. Sand and gravel is also used as a base under structures to provide additional strength

When you total it all up, it requires over 250 tonnes - that's 12 truck loads - of sand and gravel to build one home in Ontario. Imagine the millions of tonnes used to build the public and commercial roads, highways, parks, churches, schools, offices and commercial buildings we all use!

and/or drainage to keep structures stable.

- to build a small school
- 91,200 tonnes (4.560 truck loads) of sand and gravel to build one kilometre of a subway track
- 51,800 tonnes (2,590 truck loads) of sand and gravel to build one kilometre of 6-lane expressway

Take a look at this cut-away photo of a typical subdivision street and you'll see many of the elements, both visible and hidden, which we rely upon every day. All of these elements require sand and gravel.

Add to this the ongoing requirements for maintenance, such as road sanding to ensure safe winter driving conditions, or repairs to aging structures, and the demand for sand and gravel escalates. In Ontario, the actual usage for every man, woman, and child is more than 12 tonnes each year, the equivalent of one-and-a-half truck loads per nerson. This totals around 164 million tonnes of sand and gravel used every year in Ontario - more than any other natural resource in the

