

*Lafarge Bath Plant*

# concrete

## connection

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Building better cities™



## Message from the Plant Manager

# Looking back on 2014 - a year of renewal!

Did you know that Lafarge's Bath plant is in its 42nd year? 2014 marked the beginning of a process of renewal to prepare the plant for another 40 years of manufacturing cement to build the communities all around us. Our team excavates limestone found just north of our plant, which is crushed, mixed with raw materials, heated and then ground into Portland cement that is used in construction projects in the Great Lakes Region.

We build better cities in many other ways. We are committed to being a good neighbour and a sustainable partner in the place where we live, work and raise our families.

Building better cities and communities is at the core of everything we do.

As we look forward to the next 40 years we see climate change challenges as a catalyst for renewal. Lafarge is a world leader in concrete manufacturing products for sustainable buildings and other products that will prepare world economies for a low carbon future. Right here at the Bath plant we are in the middle of a multi-year project to reduce imported fossil fuel use - thereby lowering carbon and other emissions - which will improve the economic sustainability of the cement plant and the local community, all through the use of local, low carbon fuel sources.

Our goal is aggressive: to replace 30% of our fossil fuel usage at the Bath plant by 2020 with lower carbon fuels, which would make us the first cement plant in Ontario to get there.

In July of 2014, we reached a major milestone with start up of a low carbon demonstration plant, with a full-scale demonstration test in October. The findings were astounding - we could potentially cut our reliance on fossil fuels by more than half! (see page 4 for more information)

We are also continuing to develop the western part of our quarry and to commission a new crushing system. As we look forward to increased sales to the United States and locally, we are studying many other opportunities to increase the plant's productivity and sustainability.



Our progress wouldn't have been possible without the unwavering dedication and skill of the people who make this plant run safely and effectively every day. We're very pleased that we were certified under the POM 2.0 program in 2014. This is an internal Lafarge program where the best work practices from our plants around the world are combined together into a Plant Operating Model (POM) that requires passing a rigorous week-long audit in order to be certified.

Last year, more than 20 people joined our team, most of whom are from the Kingston area. It is due to their professionalism and dedication to safety that I am proud to report that it has been more than seven years since we've had an injury that has resulted in lost time in the plant; all the while breaking a new monthly production record in late-2014.

Indeed, the Bath plant is a special place with a winning team behind our exceptional product. From our family to yours, thank you. I look forward to the year ahead as we continue to make the cement that builds Ontario, Canada and the world.

Richard Sebastianelli  
Cement Plant Manager  
Lafarge Bath

# Lafarge – the next generation

At 24, Tiffany Sabiston is one of the youngest engineers at the Bath plant. The Queen's University's chemical engineering graduate joined the Lafarge team in 2012, and has been with the Lafarge Bath plant ever since.



After coming on board, Tiffany completed Lafarge's two-year cement professional program and was recently promoted to process engineer.

**“There is so much to learn about the manufacturing process – I'm still learning every day. It was definitely overwhelming at first, but the cement professionals program gave me the resources I needed to thrive.”**

In her current role, Tiffany is responsible for inspecting equipment at the plant to make sure they're operating at their optimum capability. She also takes a look at process trends and production rates.

“I enjoy the variety the job brings day to day,” says Tiffany. “You're not restricted to your desk all day. Every day is a challenge, and no day is like the one before. I really like that it keeps me on my toes.”

“We make cement, so it can be a dusty environment and it's physical work,” she says. “But that's also part of the reason why I love this job. I'd like to think of myself as being pretty tough,” she adds with a laugh.

Tiffany credits her success to supportive colleagues and mentors who have guided her over the last several years.

“I do a lot of work alongside our Senior Process Engineer, Nagalingam (Naga) Boddu. He's what I like to call my 'process guru'. We also have an amazing camaraderie amongst the team. It really is like one big family.”

Tiffany is looking forward to growing even more with Lafarge.

**“As I learn more about the company I'd like to eventually grow into a corporate role. Lafarge is so much more than concrete – which is what most people think of when they hear the name. I want to help show people the whole picture of the great work we do.”**





## We asked: could we dramatically reduce our reliance on fossil fuel? The Results are in!

As you will recall from earlier Concrete Connection articles, Lafarge has been working for several years with Queen's University, Pollution Probe, the Cement Association, and other partners to replace fossil fuels (such as coal and petroleum coke) with lower carbon fuels - with funding from Natural Resources Canada's EcoEnergy program as well as Carbon Management Canada and the Ontario Centres of Excellence.



The team is excited to have completed their first round of fuel testing with these new fuels and the results are in.

**The fuels tested reduced carbon emissions by over 70% for every tonne of fossil fuel replaced with no increases in any other emissions.**

“We are delighted with these results” notes Richard Sebastianelli, Bath Plant Manager. “With the upcoming Cap & Trade regulations these new fuels will become absolutely essential to sustainable operations.”

The first round of fuel testing focused on the use of construction & demolition debris, asphalt shingles, and weathered treated wood (eg railway ties).

All of these had been identified as local, lower carbon fuels by the project team and were expected to reduce carbon emissions with otherwise neutral emission effects.

“In making cement, the two football fields long kiln reaches a temperature equal to a quarter of the sun’s surface and this requires a lot of fuel. Replacing imported fossil fuels with locally produced fuels will create jobs at our local supply sites, will reduce carbon emissions, and will prepare the Bath Cement plant for a low carbon future” notes Rob Cumming, Low Carbon Fuels project champion.

**“We are also particularly proud of the many Queen’s students who have garnered advanced degrees in their study of lower carbon fuel use” he adds.**

## You are Invited

The research team invites the public to join them at a public meeting on June 9th, from 7 pm to 9 pm, at the Loyalist Golf & Country club to meet with the experts and researchers who continue to work on this project. The project’s goal is to reach 30% co-fire with lower carbon fuels by 2020 and to study ways of higher replacement in the future.

You can download reports at [www.cement2020.org](http://www.cement2020.org). This meeting is being held under the auspices of the Environmental Assessment Act.



# Announcement! Lafarge Canada Inc. (Eastern Canada) renews partnership with Earth Rangers to bring the wonder of wildlife to schools.

April 21, 2015, Toronto , Ontario



The Eastern Canada division of Lafarge Canada Inc. is proud to partner with Earth Rangers to bring their inspiring School Outreach Program to communities across Eastern Canada again this year to inspire children to help Bring Back the Wild. Lafarge's \$40,000 contribution will help expand the Earth Rangers School Outreach Program, which features live Animal Ambassadors demonstrating their amazing natural behaviours, and inspires students to take action to protect biodiversity.

Lafarge's commitment to building better cities and communities extends beyond their plants and quarries. "Being an active partner where we live, work and raise our families is one of our values," said Bruno Roux, President & CEO, Lafarge Canada Inc. in Eastern Canada.

**"This is why we are proud to partner with Earth Rangers and we believe that their School Outreach Program is a great initiative to learn and understand more about our local wildlife and habitat."**

Earth Rangers is the kids' conservation organization, dedicated to educating children and families about biodiversity and empowering them to become directly involved in protecting animals and their habitats. "Earth Rangers is committed to sharing our conservation message with as many children and families as possible," said Peter Kendall, Executive Director of Earth Rangers. "We're proud to be partnering with Lafarge once again to bring our School Outreach Program to students in Quebec, Ontario and Nova Scotia".

A recent Ipsos Reid Survey found that children's #1 environmental concern is protecting animals from extinction and that children who participate in Earth Rangers' programs have much higher rates of environmental behaviours. The School Outreach Program acts as an inspiring introduction to Canadian conservation and encourages students to continue their participation with Earth Rangers by joining the free membership program at home with their families.

The 2015 Earth Rangers School Outreach Program will visit schools in the following communities:

London, ON - Spring 2015  
Hamilton, ON - Fall 2015  
**Bath, ON - June 18-20, 2015**  
Barrie, ON - Fall 2015  
Saint-Constant, QC - Fall 2015  
Montréal, QC - Spring 2015



# You are Invited to Port of Bath Day

A 3-day marine heritage festival celebrating Bath's nautical heritage with workshops, music, information, displays, boats & ships from June 19 to 21, 2015.

Events are held on June 19 (6 pm - 10 pm), June 20 (10 am - 4 pm), and June 21 (10 am - 4 pm). Lafarge Welcome Tent featuring the Earth Rangers and will be open from 10 am to 2 pm on June 20, 2015.

## Bicycle safety information

Free bicycle bells and balloons from the Lafarge tent while supplies last.

Exchanging Places exhibit, kids will get to sit in a Lafarge Ready Mix truck and learn about bicycle safety.

Earth Rangers will be teaching kids about animals and endangered species.

For more information visit: [www.facebook.com/bathmarineheritagefestival](https://www.facebook.com/bathmarineheritagefestival)





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