



**Environment
Office of the Minister**

PO Box 442, Halifax, Nova Scotia, Canada B3J 2P8 • www.novascotia.ca/nse

Our File number:
10700-40-52076
40100-30-265

JUL 06 2017

Robert Cumming
Environment Director
Lafarge Canada Inc.
6509 Airport Road
Mississauga ON L4V 1S7

Dear Mr. Cumming:

Re: Environmental Assessment Lower Carbon Fuel: Tire Derived Fuel (TDF) System

The environmental assessment of the proposed Lower Carbon Fuel: Tire Derived Fuel (TDF) System, in Colchester County has been completed.

This is to advise that I have approved the above project in accordance with Section 40 of the *Environment Act*, S.N.S., 1994-95 and subsection 13(1)(b) of the Environmental Assessment Regulations, N.S. Reg. 348/2008, made under the *Act*. Following a review of the information provided by Lafarge Canada Inc. and the information provided during the government and public consultation of the environmental assessment, I am satisfied that any adverse effects or significant environmental effects of the undertaking can be adequately mitigated through compliance with the attached terms and conditions.

This approval is subject to any other approvals required by statute or regulation, including but not limited to, approval under Part V of the Nova Scotia *Environment Act* (Approvals and Certificates section).

If you have any questions regarding this decision, please contact the Supervisor, Environmental Assessment Branch, Ms. Helen MacPhail, at (902) 483-2696 or via e-mail at macphafh@gov.ns.ca.

Sincerely,

Iain Rankin, MLA
Minister of Environment

c: Helen MacPhail

Encl.

Environmental Assessment Approval

Approval Date: JUL 06 2017

Lower Carbon Fuel: Tire Derived Fuel (TDF System)

Lafarge Canada Inc.

Colchester County, Nova Scotia

The Lower Carbon Fuel: Tire Derived Fuel (TDF System) Project (the "Undertaking"), proposed by: Lafarge Canada Inc. (the "Approval Holder") in Pleasant Valley, Colchester County, Nova Scotia is approved pursuant to Section 40 of the *Environment Act* and Section 13(1)(b) of the Environmental Assessment Regulations. This Approval is subject to the following conditions and obtaining all other necessary approvals, permits or authorizations required by municipal, provincial and federal acts, regulations and by-laws before commencing work on the Undertaking. It is the responsibility of the Approval Holder to ensure that all such approvals, permits or authorizations are obtained before commencing work on the Undertaking.

This Environmental Assessment Approval is based upon the review of the conceptual design, environmental baseline information, impact predictions, and mitigation presented in the Registration Document.

Terms and Conditions for Environmental Assessment Approval

1.0 General Approval

- 1.1 The Environmental Assessment Approval for the Undertaking is limited to the Undertaking as described in the Environmental Assessment Registration Document. Any proposal by the Approval Holder for expansion, modification or relocation of any aspect of the project from that proposed in the Registration Document must be submitted to the Environmental Assessment Branch for review and may require an environmental assessment (EA).
- 1.2 The Approval Holder must, within two years of the date of issuance of this Approval, commence work on the Undertaking unless granted a written extension by the Minister.

- 1.3 The Approval Holder must notify Nova Scotia Environment (NSE) of the commencement date of the Undertaking, at a minimum 30 days prior to the commencement, unless otherwise approved by NSE.
- 1.4 The Approval Holder must not transfer, sell, lease, assign or otherwise dispose of this Approval without the written consent of the Minister. The sale of a controlling interest of a business or a transfer of an approval from a parent company to a subsidiary or an affiliate is deemed to be a transfer requiring consent.
- 1.5 The Approval Holder must implement all mitigation and commitments in the Registration Document, unless approved otherwise by NSE.

2.0 Site Development, Operation and Maintenance

- 2.1 The Approval Holder must apply for a Temporary Approval to Operate a Pilot Project under the *Environment Act* to complete testing and analysis of the proposed project.
- 2.2 The Approval Holder, as part of the application for the Temporary Approval must submit plans for review and Approval by NSE, and implement the plans once approved. The plans as a minimum must include:
 - (i) A tire storage and waste management plan;
 - (ii) An air dispersion modelling study completed to the satisfaction of NSE;
 - (iii) A plan to continuously measure flue gas emissions of sulphur dioxide, nitrogen oxides, oxygen, carbon monoxide, and opacity;
 - (iv) A pretest plan to source test total particulate matter, particulate matter less than 10 microns in size (PM₁₀), particulate matter less than 2.5 microns in size (PM_{2.5}), metals and their compounds, total hydrocarbon, volatile organic compounds including but not limited to benzene, hydrogen chloride, hydrogen fluoride, ammonia, polycyclic aromatic hydrocarbons, dioxins and furans, polychlorinated biphenyls, and hexachlorobenzene.
 - (v) An emergency response plan to address kiln upset.
- 2.3 At the request of the NSE, the Approval Holder shall submit a plan to continuously measure total hydrocarbons.

- 2.4 Tire derived fuel is limited to 15% of total daily fuel input, and no more than 20 tons per day.

3.0 Air Quality and Noise

- 3.1 At the request of NSE, the Approval Holder must develop and implement an ambient air quality monitoring plan. This plan must include but not be limited to sampling locations, parameters, monitoring methods, protocols and frequency. Based on the results of the monitoring programs as proposed, the Approval Holder must make necessary modifications to mitigation plans and/or operations as required by NSE.
- 3.2 At the request of NSE, the Approval Holder must monitor noise levels. Based on the results of monitoring program as proposed, the Approval Holder must make necessary modifications to mitigation plans and/or operations as required by NSE.

4.0 Public Consultation

- 4.1 Prior to commencement of the project, the Approval Holder must develop and implement a complaint resolution plan to address all concerns associated with the Undertaking. The Approval Holder must appoint a contact person designated to deal with complaints, and must provide the contact information to NSE.
- 4.2 At the request of NSE, the Approval Holder must form a Community Liaison Committee (CLC). The NSE's Guidelines for the Formation of a Community Liaison Committee should be used for guidance. The Approval Holder must operate the CLC for the duration of the Undertaking and until released in writing by NSE.

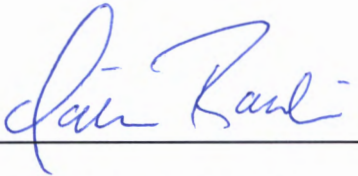
5.0 Contingency Plans

- 5.1 The Approval Holder must submit for review and approval a Contingency Plan developed in accordance with NSE's Contingency Planning Guidelines that addresses:
- (i) Discharges, emissions, escapes, leaks or spills of dangerous goods and/or waste dangerous goods;
 - (ii) Collisions, fires, accidents and/or other potential emergencies associated with the operation of the cement kiln including but not

- limited to tire transportation and storage on site.
- (iii) The plan shall be developed in consultation with local fire and emergency service providers, and demonstrate compliance with Federal and Provincial regulatory requirements.

6.0 Site Reclamation and Closure

- 6.1 Project operations must be completed and reclaimed to the satisfaction of NSE and other appropriate regulatory departments.

A handwritten signature in blue ink, appearing to read "Jan Rauli", is written above a horizontal line.

Minister of Environment