

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 0994-BWRR9V
Issue Date: March 7, 2022

Lafarge Canada Inc.
6509 Airport Road
Mississauga, Ontario
L4V 1S7

Site Location: Lafarge Woodstock Quarry
Part Lots 2-4, Concession 3; Part Lots 1-5, Concession 2, as legally described under PINs
00214-0005 (LT), 00214-0007 (LT), 00213-0047 (LT), and 00213-0044 (LT)
Township of Zorra, County of Oxford
N0J 1J0

*You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19
(Environmental Protection Act) for approval of:*

sewage works for the collection, transmission, treatment and disposal of stormwater and groundwater in the quarry owned by Lafarge Canada Inc at the Woodstock Quarry, having an overall area of 55 ha, used for quarrying, crushing, trucking aggregate/stone and other typical aggregate processing, located at Part Lots 2-4, Concession 3; Part Lots 1-5, Concession 2, as legally described under PINs 00214-0005 (LT), 00214-0007 (LT), 00213-0047 (LT), and 00213-0044 (LT), in the Township of Zorra, County of Oxford, consisting of the following:

Proposed Works

- decommissioning/filling existing pipes and riser connecting the West Pond and the East Pond at the south end of the ponds, in order to prevent flow short circuiting;
- Construction of a new ditch inlet type outlet for the East Pond between the proposed Ditch Inlet Manhole DI1 at the East Pond Outlet and Manhole STM MH1; the outlet pipe is connected to DI1 at invert elevation of 299.70 m with the lowest grate of the ditch inlet at an elevation of 301.57 m, resulting in a 7.5 m pond depth at the East pond, and achieving an approximate storage volume of 68,175 m³; the East pond is discharging as per the existing conditions to the Mckenzie drain via existing polyethylene discharge pipe (East Pond Discharge);

Existing Works

Stormwater and Groundwater Management

- one West pond, designed as a sediment forebay, receiving the stormwater and groundwater from the quarry sump through pumps, designed for a peak design flow rate of 20,000 Litre/minute, with a design forebay length of 150 m and width of 30 m, having an overall pond volume of approximately 642 m³, an approximate surface area of 5,350 m², a permanent pool depth of approximately 0.1 metres receiving flow of stormwater and groundwater collected in the quarry sump via one 200 mm steel and one 250 mm diameter polyethylene approximately 1200 m long forcemain, the West Pond is discharging by gravity through a buried 300 mm CSP culvert equipped with gate valve and 150 mm riprap for 3 meter around the culvert outlet;
- one (1) **settling pond** (East pond), with a surface area of approximately 18,180 m², a permanent pool depth of approximately 7.5 m and a total volume of approximately 68,175 cubic metre, receiving flow from the West Pond (forebay), discharging to a proposed ditch via 23.5 metre of 600 mm diameter sewer laid at 1% grading to a 32.6 meter of 450 mm diameter pipe to an existing discharge pipe and flume, and downstream channel which discharges into the Mckenzie drain and ultimately to Thames River;
- decommission of the 600 mm diameter CSP overflow riser at the west pond.

all other controls, electrical equipment, instrumentation, piping, pumps, valves and appurtenances essential for the proper operation of the aforementioned sewage works;

all in accordance with the Schedule A.

For the purpose of this environmental compliance approval, the following definitions apply:

"Approval" means this environmental compliance approval, any schedules attached to it, and the Application;

"Director" means a person appointed by the Minister pursuant to section 5 of the EPA for the purposes of Part II.1 of the EPA;

"District Manager" means the District Manager of the appropriate local district office of the Ministry where the Works is geographically located;

"EPA" means the *Environmental Protection Act, R.S.O. 1990, c.E.19* , as amended;

"Existing Works" means those portions of the Works included in the Approval that have been constructed previously;

"Licensed Engineering Practitioner" means a person who holds a licence, limited licence or temporary licence under the *Professional Engineers Act*, R.S.O. 1990, c. P.28

"Ministry" means the ministry of the government of Ontario responsible for the EPA and OWRA and includes all officials, employees or other persons acting on its behalf;

"Owner" means Lafarge Canada Inc., and includes its successors and assignees;

"OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40 , as amended; and

"Works" means the approved sewage works, and includes Proposed Works and Existing Works.

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL CONDITION

1. The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Works is notified of this Approval and the terms and conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
2. The Owner shall design, construct, operate and maintain the Works in accordance with the conditions of this Approval.
3. Where there is a conflict between a provision of any document referred to in this Approval and the conditions of this Approval, the conditions in this Approval shall take precedence.
4. The issuance of, and compliance with the conditions of, this Approval does not:
 - a. relieve any person of any obligation to comply with any provision of any applicable statute, regulation or other legal requirement, including, but not limited to, the obligation to obtain approval from the local conservation authority necessary to construct or operate the sewage works; or,
 - b. limit in any way the authority of the Ministry to require certain steps be taken to require the Owner to furnish any further information related to compliance with this Approval.

2. EXPIRY OF APPROVAL

1. This Approval will cease to apply to those parts of the Works which have not been constructed within five (5) years of the date of this Approval.
2. In the event that completion and commissioning of any portion of the Works is anticipated to be more than **five (5) years**, the Owner shall submit an application for extension at least twelve (12) months prior to the end of the five (5) years from the day of issuance of this Approval. The application shall include the reason(s) for the delay, whether there is any design change(s) and a review of whether the standards applicable at the time of Approval of the Works are still applicable at the time of request for extension, to ensure the ongoing protection of the environment.

3. CHANGE OF OWNER

1. The Owner shall notify the District Manager and the Director, in writing, of any of the following changes within thirty (30) days of the change occurring:
 - a. change of address of Owner;
 - b. change of Owner, including address of new owner;
 - c. change of partners where the Owner is or at any time becomes a partnership, and a copy of the most recent declaration filed under the *Business Names Act*, R.S.O. 1990, c.B17 shall be included in the notification to the District Manager; or,
 - d. change of name of the corporation where the Owner is or at any time becomes a corporation, and a copy of the most current information filed under the *Corporations Information Act*, R.S.O. 1990, c. C39 shall be included in the notification to the District Manager.
2. In the event of any change in ownership of the Works, other than a change to a successor municipality, the Owner shall notify in writing the succeeding owner of the existence of this Approval, and a copy of such notice shall be forwarded to the District Manager and the Director.
3. The Owner shall ensure that all communications made pursuant to this condition refer to the number at the top of this Approval.

4. CONSTRUCTION OF THE WORKS

1. Upon the construction of the Works, the Owner shall prepare a statement, certified by a Licensed Engineering Practitioner, that the works are constructed in accordance with this Approval, and upon request, shall make the written statement available for inspection by Ministry personnel.
2. Within three months of the construction of the Works, a set of as-built drawings showing the works “as constructed” shall be prepared. These drawings shall be kept up to date through revisions undertaken from time to time and a copy shall be retained at the Works for the operational life of the Works.

5. OPERATION AND MAINTENANCE

1. The Owner shall make all necessary investigations, take all necessary steps and obtain all necessary approvals so as to ensure that the physical structure, siting and operations of the Works do not constitute a safety, health or flooding hazard to the general public.
2. The Owner shall undertake an inspection of the condition of the Works, at least once a year, and undertake any necessary cleaning and maintenance to ensure that sediment, debris and excessive decaying vegetation are removed from the Works to prevent the excessive build-up of sediment, debris and/or decaying vegetation, to avoid reduction of the capacity and/or permeability of the Works, as applicable. The Owner shall also regularly inspect and clean out the inlet to, and outlet from the Works to ensure that these are not obstructed.
3. The Owner shall construct, operate and maintain the Works with the objective that the effluent from the Works is essentially free of floating and settleable solids and does not contain oil or any other substance in amounts sufficient to create a visible film, sheen, foam or discoloration on the receiving waters.
4. The Owner shall ensure that equipment and material for the containment, clean-up and disposal of fuel and oil and materials contaminated with such, is on hand and in good repair for immediate use in the event of:
 - a. loss of fuel or oil to the Works; or
 - b. a spill within the meaning of Part X of the EPA.
5. The Owner shall prepare an operations manual within six months of the issuance of this Approval, that includes, but is not necessarily limited to, the following information:
 - a. operating and maintenance procedures for routine operation of the Works;

- b. inspection programs, including frequency of inspection, for the Works and the methods or tests employed to detect when maintenance is necessary;
 - c. repair and maintenance programs, including the frequency of repair and maintenance for the Works;
 - d. contingency plans and procedures for dealing with potential spills and any other abnormal situations and for notifying the District Manager; and
 - e. procedures for receiving, responding and recording public complaints, including recording any follow-up actions taken.
6. The Owner shall maintain an up to date operations manual and make the manual readily accessible for reference at the Works for the operational life of the Works. Upon request, the Owner shall make the manual available to Ministry staff.
7. The Owner shall maintain a logbook to record the results of these inspections and any cleaning and maintenance operations undertaken, and shall keep the logbook at the Works for inspection by the Ministry. The logbook shall include the following:
- a. the name of the Works;
 - b. the date and results of each inspection, maintenance and cleaning, including an estimate of the quantity of any materials removed and method of clean-out of the Works; and
 - c. the date of each spill within the catchment area, including follow-up actions and remedial measures undertaken.
8. The Owner shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the operation and maintenance activities required by this Approval.

6. TEMPORARY EROSION AND SEDIMENT CONTROL

1. The Owner shall install and maintain temporary sediment and erosion control measures during construction and conduct inspections once every two (2) weeks and after each significant storm event (a significant storm event is defined as a minimum of 25 millimetres of rain in any 24 hours period). The inspections and maintenance of the temporary sediment and erosion control measures shall continue until they are no longer required and at which time they shall be removed and all disturbed areas reinstated properly.

2. The Owner shall maintain records of inspections and maintenance which shall be made available for inspection by the Ministry, upon request. The record shall include the name of the inspector, date of inspection, and the remedial measures, if any, undertaken to maintain the temporary sediment and erosion control measures.

7. EFFLUENT LIMITS

1. The Owner shall design, construct and operate the Works such that the concentrations of the materials listed as effluent parameters in the Effluent Limits Table in **Schedule B** are not exceeded in the effluent from the Works.
2. In the event of an exceedance of the Monthly Effluent Concentration Limit for Total Suspended Solids ("TSS") as set out in the Effluent Limits Table in Schedule B, the Owner shall re-sample. In the event that the results of re-sampling confirm the exceedance, the Owner shall undertake an investigation as to the likely cause and provide to the District Manager a report, within five (5) calendar weeks of receipt of TSS results, to propose mitigative measures to control any future TSS exceedances.

8. EFFLUENT MONITORING

1. The Owner shall, within six months of the issuance of this Approval, carry out a monitoring program, and all samples and measurements taken for the purposes of this Approval are to be taken at a time and in a location characteristic of the quality and quantity of the effluent stream over the time period being monitored.
2. Samples shall be collected and analyzed at the sampling point(s), sampling frequencies and using the sample type specified for each parameter listed in the Effluent Monitoring Table in the **Schedule B**.
3. The methods and protocols for sampling, analysis and recording shall conform, in order of precedence, to the methods and protocols specified in the following:
 - a. the Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater" (January 1999), ISBN 0-7778-1880-9, as amended from time to time by more recently published editions;
 - b. the publication "Standard Methods for the Examination of Water and Wastewater" (21st edition) as amended from time to time by more recently published editions.
4. The measurement frequencies specified in the effluent monitoring table in **Schedule B** in respect of any parameter are minimum requirements which may, after Twenty Four (24) months of monitoring in accordance with this Condition, be modified by the Director in writing from time to time.

5. The Owner shall retain for a minimum of five (5) years from the date of their creation, all records and information related to or resulting from the monitoring activities required by this Approval.

9. REPORTING

1. The Owner shall, upon request, make all reports, manuals, plans, records, data, procedures and supporting documentation available to Ministry staff.
2. The Owner shall prepare performance reports on a calendar year basis and submit to the District Manager by March 31 of the calendar year following the period being reported upon. The reports shall contain, but shall not be limited to, the following information pertaining to the reporting period:
 - a. a summary and interpretation of all monitoring data and a comparison to the Effluent Limits outlined in Condition 7, including an overview of the success and adequacy of the sewage Works;
 - b. a description of any operating problems encountered and corrective actions taken;
 - c. a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works, including an estimate of the quantity of any materials removed from the Works;
 - d. a summary of the calibration and maintenance carried out on all effluent monitoring equipment;
 - e. a summary of any effluent quality assurance or control measures undertaken in the reporting period;
 - f. a summary of any complaints received during the reporting period and any steps taken to address the complaints;
 - g. a summary of all spill or abnormal discharge events; and
 - h. any other information the District Manager requires from time to time to assess compliance with this Approval.

3. The Owner shall report to the District Manager any exceedance of the effluent limits set out in the effluent limits table in Schedule B, orally as soon as possible, and in writing within seven (7) days of the exceedance.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is included to ensure that the Works are constructed and operated in the manner in which they were described and upon which approval was granted. This condition is also included to emphasize the precedence of conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review. Condition 1.4 is included to emphasize that the issuance of this Approval does not diminish any other statutory and regulatory obligations to which the Owner is subject in the construction, maintenance and operation of the Works. The Condition also emphasizes the fact that this Approval doesn't limit the authority of the Ministry to require further information.
2. Condition 2 is included to ensure that, when the Works are constructed, the Works will meet the standards that apply at the time of construction to ensure the ongoing protection of the environment.
3. Condition 3 is included to ensure that the Ministry records are kept accurate and current with respect to the approved Works and to ensure that subsequent owners of the Works are made aware of the Approval and continue to operate the Works in compliance with it.
4. Condition 4 is included to ensure that the Works are constructed in accordance with the approval and that record drawings of the Works "as constructed" are maintained for future references.
5. Condition 5 is included as regular inspection and necessary removal of sediment and excessive decaying vegetation from the Works are required to mitigate the impact of sediment, debris and/or decaying vegetation on the treatment capacity of the Works. The Condition also ensures that adequate storage is maintained in the Works at all times as required by the design. Furthermore, this Condition is included to ensure that the Works are operated and maintained to function as designed.
6. Condition 6 is included as installation, regular inspection and maintenance of the temporary sediment and erosion control measures is required to mitigate the impact on the downstream receiving watercourse during construction until they are no longer required.
7. Condition 7 is included to ensure that the effluent discharged from the Works meets the Ministry's effluent quality requirements, as specified, on a continuous basis, thus minimizing environmental impact on the receiver.

8. Condition 8 is included to require the Owner to demonstrate on a continual basis that the quality and quantity of the effluent from the approved works is consistent with the design and effluent limits specified in the Approval and that the approved works does not cause any impairment to the receiving watercourse.
9. Condition 9 is included to provide a performance record for future references, to ensure that the Ministry is made aware of problems as they arise, and to provide a compliance record for all the terms and conditions outlined in this Approval, so that the Ministry can work with the Owner in resolving any problems in a timely manner.

Schedule A

1. Environmental Compliance Approval Application for Industrial Sewage Works submitted by January 30, 2020 and received on February 3, 2020.
2. Design Report, dated January 31, 2020 prepared by Dilan Singaraja, P.Eng, GHD, including site map, design specification and calculations.

Schedule B

Effluent Limits Table
(measured at the discharge outlet from the East Pond Discharge)

Effluent Parameter	Event	Limit
Total Suspended Solids	Monthly Effluent Concentration	25 mg/L
Oil and Grease	Single Sample Result	15 mg/L
pH	Single Sample Result	between 6.0 - 9.5 inclusive

Effluent Monitoring Table
(sample point: East Pond Discharge)

Frequency	Monthly
Sample Type	Grab
Parameters	pH, TSS, Oil and Grease

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 4-0133-94-006 issued on November 29, 1994 and Notice No. 1 dated January 27, 2021.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me, the Environmental Review Tribunal and in accordance with Section 47 of the Environmental Bill of Rights, 1993, the Minister of the Environment, Conservation and Parks, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Minister of the Environment, Conservation and Parks will place notice of your appeal on the Environmental Registry. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

- a. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
- b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;
5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Minister of the Environment,
Conservation and Parks
777 Bay Street, 5th Floor
Toronto, Ontario
M7A 2J3

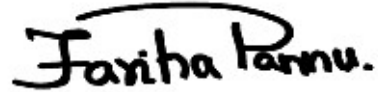
AND

The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act
Ministry of the Environment,
Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or www.ert.gov.on.ca**

This instrument is subject to Section 38 of the Environmental Bill of Rights, 1993, that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek leave to appeal within 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry at <https://ero.ontario.ca/>, you can determine when the leave to appeal period ends.

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.
DATED AT TORONTO this 7th day of March, 2022



Fariha Pannu, P.Eng.
Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

KH/

c: District Manager, MECP London District.
Dilan Singaraja, GHD Limited