

July 17, 2015

Dr. Patrick Kiely  
CEO and Founder  
ClearPod Inc.  
Suite 100, 80 Aberdeen Street,  
Ottawa, Ontario  
K1S 5R5

Dear Dr. Patrick Kiely

**Re: ClearPod™ Product Approval for Nova Scotia**

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This letter is in response to your request to have the ClearPod™ fixed film aeration technology approved for use in the Province of Nova Scotia pursuant with the Technical Guidelines for on-site sewage disposal systems and the *On-site Sewage Disposal System Regulations*.

Nova Scotia Environment has reviewed the information submitted, which included; the ClearPod™ application covering letter, the Onsite Wastewater Technology Testing Report from the Massachusetts Alternative Septic System Test Center, ClearPod™ brochures and installation manual, and detailed data set.

**Please note, the ClearPod™ fixed film aeration technology will only be considered as a pretreatment unit and must include subsurface disposal according to the treated effluent subsurface disposal requirements outlined in the ClearPod™ manual, as described in the *NS On-site Sewage Disposal Systems Technical Guidelines*, or as recommended by the professional engineer for a system retrofit. The ClearPod™ fixed film aeration unit is not approved as a standalone treatment system and shall not generate a direct point surface discharge unless approved otherwise by the Department when replacing a malfunctioning system.**

Based on the information filed, this will confirm that NSE accepts the ClearPod™ fixed film aeration technology for use in Nova Scotia as an on-site sewage disposal system, subject to the following;

1. Each installation and application of the technology is required to obtain a site specific approval as per the *On-site Sewage Disposal Systems Regulations*.

2. A single ClearPod™ fixed film aeration unit may be used for design flow rates up to 1250 L/day. Multiple ClearPod™ units may be combined in parallel to treat a maximum design flow rate of 5678 L/day for an on-site sewage application.
3. Each ClearPod™ fixed film aeration unit must be installed in a two chamber septic tank with a minimum capacity of 5678 L and include a septic tank effluent filter. If two chambers and/or the minimum capacity is not available, an additional septic tank must be installed to achieve the minimum total capacity of 5678 L.
4. Any application submitted to the Department for approval of a ClearPod™ unit shall be submitted by a professional engineer registered to practice in Nova Scotia, and must be installed by an installer certified under the *On-site Sewage Disposal System Regulations*. The system drawings shall be provided with the application and shall include the design flow, system components and system layout.
5. Each system installation must be designed and installed in compliance with the *On-Site Sewage Disposal Systems Regulations*; the *On-site Sewage Disposal Systems Technical Guidelines*, the specific On-Site Sewage Disposal System Approval and the ClearPod™ installation manual.
6. ClearPod™ shall notify the On-site Services Program Coordinator of any manufacturer's modifications to the System and shall submit these modifications to the Department for approval before installing the modified systems in Nova Scotia.
7. Pursuant to Section 60 of the *Environment Act*, ClearPod™ shall submit to the local Nova Scotia Environment office any information respecting an adverse environmental or human health effect that results, or may potentially result, from the use of a ClearPod™ fixed film aeration unit. Notification must occur within 14 days of ClearPod™'s discovery of the adverse or potential adverse effect.
8. The homeowner is responsible to maintain an operation and maintenance contract with a local authorized service provider including annual certification that the system is working and being used as intended for the life of the system.

NSE Contact information:

On-site Services Program Coordinator  
Sustainability and Applied Science (SAS)  
PO Box 442  
Halifax, NS B3J 2P8  
Fax 902-424-0501  
Tel 902-424-2553

If you have any questions related to this authorization, please feel free to contact [Leah.Boutilier@novascotia.ca](mailto:Leah.Boutilier@novascotia.ca), On-site Services Program Coordinator, (902) 722-5185.

Sincerely,



Leah Boutilier  
On-site Services Program Coordinator  
Sustainability and Applied Science (SAS)

cc. Paul Currie, A/Manager, Industrial Management Unit  
Regional Directors, Compliance