


Notice of Alteration Form



File No. :	Environment Act Licence No. : 2543 R/ 3338		
Legal name of the Licensee: City of Portage la Prairie			
Name of the development: Water Pollution Control Facility			
Category and Type of development per Classes of Development Regulation: Waste Treatment and Disposal <input type="button" value="v"/> <SELECT>			
Licensee Contact Person: Karly Friesen Mailing address of the Licensee: 97 Saskatchewan Ave. E City: Portage la Prairie Province: Mb Postal Code: R1N 0L8 Phone Number:(204) 239-8359 Fax: Email: kfriesen@city-plap.com			
Name of proponent contact person for purposes of the environmental assessment (e.g. consultant): Leah Daniel- Aecom Engineering			
Phone: (204) 792-0568 Fax:		Mailing address: 99 Commerce Dr., Winnipeg, Mb, R3P 0Y7	
Email address: Leah.Daniel@aecom.com			
Short Description of Alteration (max 90 characters): To allow for continous recirculation of TWAS in the anaerobic digester in place of mixing			
Alteration fee attached: Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>			
If No, please explain: Minor alteration to existing license with no impacts on environment or overall treatment process.			
Date: 2016-05-20	Signature: 		
	Printed name: Karly Friesen		
A complete Notice of Alteration (NoA) consists of the following components:		Submit the complete NoA to: Director, Environmental Approvals Branch Environment and Climate Change Box 35, 14 Fultz Blvd Winnipeg MB R3Y 0L6 EABDirector@gov.mb.ca For more information: Toll-Free: 1-800-282-8069 Phone: 204-945-8321 Fax: 204-945-5229 https://www.gov.mb.ca/sd/permits_licenses_approvals/eal/licence/index.html	
<input checked="" type="checkbox"/> Cover letter <input checked="" type="checkbox"/> Notice of Alteration Form <input checked="" type="checkbox"/> 1 electronic copy of the NoA detailed report (see " Information Bulletin - Alteration to Developments with Environment Act Licences ") <input type="checkbox"/> \$500 Application fee, if applicable (Cheque, payable to the Minister of Finance)			
Note: Per Section 14(3) of the Environment Act, Major Notices of Alteration must be filed through submission of an Environment Act Proposal Form (see "Information Bulletin – Environment Act Proposal Report Guidelines")			

May 16, 2025

Director, Environmental Approvals Branch
Environment and Climate Change
Box 35, 14 Fultz Blvd.
Winnipeg, Manitoba
R3Y 0L6

Re: Application for Minor Notice of Alteration to Environmental Act Licence No. 3338/ 2543R

Dear Director,

The City of Portage la Prairie is applying for a minor Notice of Alteration to revise Clause 17 b) of Environmental Act Licence No. 2543R. This request is detailed in the attached memorandum prepared by AECOM and is intended to address operational challenges with the anaerobic digester mixing system at the Water Pollution Control Facility (WPCF). While the nutrient reduction upgrade project is currently on hold due to funding and sustainability concerns, the City is proposing an interim solution to improve digester mixing operations.

The anaerobic digester mixers at the WPCF have failed, and the current method of recirculating thickened WAS contents using a transfer pump is insufficient to achieve the desired mixing, prior to storage in the Biosolids Storage tanks. To improve operations, the City proposes installing a dedicated recirculation pump as a cost-effective interim solution. This system will utilize existing infrastructure and minimize disruptions while awaiting the completion of the nutrient reduction upgrade project.

To reflect this interim solution, the City requests a revision to Clause 17 b) of Environmental Act Licence No. 2543R. The current wording, "the digester contents are continually mixed," is requested to be updated to "the digester contents are continuously recirculated."

We kindly request your review and approval of this application. Should you require further information or clarification, please contact myself or Leah Daniel with AECOM.

Sincerely,



Karly Friesen
Director of Utility

Cc: Tyler Kneeshaw, Environment Officer, Manitoba Conservation and Climate
Nicole Chychota, City Manager, City of Portage la Prairie
Kelly Braden, Braden Municipal Engineering
Leah Daniel, AECOM

Memorandum

To	Karly Friesen	Page 1
CC	Kelly Braden	
Subject	Portage la Prairie Water Pollution Control Facility Environment Act Licence 3338 / 2543R Revisions	
From	Lisa Winning, M.Sc., P.Eng. Leah Daniel, M.Sc., P.Eng. Natalie Wilson, M.Sc., P.Eng.	
Date	March 31, 2025	Project Number 60628898

1. Introduction

The City of Portage la Prairie has an ongoing project to upgrade the City's Water Pollution Control Facility (WPCF) to meet the Province of Manitoba Water Quality Standards, Objectives and Guidelines (MWQSOG), which is being implemented through a Public Private Partnership (P3) contracting strategy. To meet the updated MWQSOG regulations, limits of 15 mg/L of total nitrogen (TN) and 1 mg/L of total phosphorus (TP) will apply.

In 2017, a Notice of Alteration along and Environmental Assessment Report was submitted by AECOM on behalf of the City of Portage la Prairie to the Province of Manitoba to obtain approval for the construction and operation of a nutrient reduction system to the existing WPCF. Environmental Act Licence No. 3338 was issued in 2020 to be enacted once commissioning of the upgrades WPCF was complete. The City currently operates the WPCF in accordance with Environmental Act Licence No. 2543R, issued March 12, 2002.

The WPCF nutrient reduction upgrade project is currently on hold due to funding and long-term financial security and industrial user groups sustainability concerns.

With the planned WPCF nutrient reduction upgrade project on the horizon, major capital upgrade projects to the existing WPCF are being deferred.

2. Digester Mixing

The solids treatment at WPCF involves removing waste activated sludge from the sequencing batch reactors to an aerated equalization tank prior to thickening in two gravity belt thickeners. After thickening the solids stream is directed to one 1900 m³ digester.

Although the digester has two 40 HP mixers, both have failed, and as a result the digester is currently not achieving any mixing as originally designed. To help achieve some mixing, the City recirculates digester contents with the transfer pump when not being used to feed the digester or transfer sludge to the Biosolids Storage Tanks.

The City proposes to install a dedicated recirculation pump as a means of improving mixing within the digester. As the City has a suitable spare pump available, this proposed solution is intended to serve as a cost effective interim solution until the WPCF nutrient reduction project is complete.

The proposed digester recirculation pumps will draw from an existing nozzle 375 mm above the bottom of the tank and will discharge from a pipe to be installed through an existing manhole on the top of digester. The manhole will be modified with a sealed pipe penetration added. The discharge pipe will extend below the normal fluid level in the digester to minimize re-aeration and foaming.

3. Requested Update to Environmental Act Licence No. 2543R

The following update is requested to Environmental Act Licence No. 2543R Clause 17 b):

Current wording:

“the digester contents are continually mixed”

Requested Updated Wording:

“the digester contents are continuously recirculated”