



Sustainable Development

Environmental Stewardship Division
Environmental Approvals Branch
1007 Century Street, Winnipeg Manitoba R3H 0W4
T 204 945-8321 F 204-945-5229
www.gov.mb.ca/sd/eal

File No.: 3508.00, 4108.00, 4109.00, and 4110.00
Environment Act Licence No.: 1642 S2 R

August 8, 2018

Brent Olynyk, Chief Administrative Officer
Rural Municipality of West St. Paul
3550 Main Street
West St. Paul, MB R4A 5A3
Email: cao@weststpaul.com

Dear Brent Olynyk:

Re: Cancellation of Environment Act Licence No. 1642 S2 R and Closure of File Numbers 3508.00, 4108.00, 4109.00, and 4110.00

This letter is in follow up to the letters dated June 22, 2017 sent to you by Don Labossiere, Director, Environmental Compliance and Enforcement Branch, Manitoba Sustainable Development.

Environment Act Licence No.1642 S2 R was issued to Rivergate Properties Inc. for the construction and operation of the Development being a package wastewater treatment plant (WWTP) located on River Lot No. 33 in the Rural Municipality of West St. Paul.

By the June 22, 2017 letters, the submitted decommissioning reports for the Rivergate (Riverspring) WWTP (Client File No. 3508.00), Riverdale WWTP (Client File No. 4108.00), Rivercrest WWTP (Client File No. 4109.00), and Lister Rapids WWTP (Client File No. 4110.00) were accepted by the Department.

This letter is to formally notify you that Environment Act Licence No. 1642 S2 R associated with Client File No. 3508.00 for Rivergate WWTP has been cancelled. In addition, Client File Numbers 3508.00, 4108.00, 4109.00, and 4110.00 have been closed. This letter replaces the letter dated May 31, 2018.

If you need any clarification regarding the foregoing, please feel free to contact Asit Dey, Environmental Engineer at 204-945-2614 or at asit.dey@gov.mb.ca.

Yours sincerely,

Tracey Braun, M.Sc.
Director

c: Don Labossiere/Scott Davies/Yvonne Hawryliuk/Nada Suresh, Environmental Compliance and Enforcement Branch
Siobhan Burland Ross/Rob Matthews/Asit Dey, Environmental Approvals Branch
Public Registries

Environment Act Licence Loi sur l'environnement Licence

Manitoba
Environment
Environnement
Manitoba



Licence No./Licence n° 1642 S2 R
Issue Date/Date de délivrance April 11, 1997

(Revised: February 11, 1998)

In accordance with the Manitoba Environment Act (C.C.S.M. c. E125)

THIS LICENCE IS ISSUED TO:

RIVERGATE PROPERTIES INC.: "the Licencee"
STAGE 2 LICENCE

for the construction and operation of the Development being a package wastewater treatment plant located on River Lot No. 33 in the Rural Municipality of West St. Paul, and in accordance with the Proposal filed under The Environment Act on September 16, 1992, and subject to the following specifications, limits, terms and conditions:

DEFINITIONS

In this Licence,

"**affected area**" means a geographical area affected by an odour nuisance, excluding the property of the development;

"**appurtenances**" means machinery, appliances, or auxiliary structures attached to a main structure to enable it to function, but not considered an integral part of it;

"**as constructed drawing**" means engineering drawings complete with all dimensions which indicate all features of the Development as it has actually been built;

"**bioassay**" means a method of determining toxic effects of industrial wastes and other wastewaters by using viable organisms;

"**composite sample**" means a quantity of wastewater consisting of a minimum of 10 equal volumes of effluent collected at approximately equal time intervals;

"**Director**" means an employee so designated pursuant to The Environment Act;

"**effluent**" means treated wastewater flowing or pumped out of the sewage treatment plant;

"**fecal coliform**" means aerobic and facultative, gram-negative, nonspore-forming, rod-shaped bacteria capable of growth at 44.5^o C, and associated with fecal matter of warm-blooded animals;

"**grab sample**" means a quantity of wastewater taken at a given place and time;

"**influent**" means water, wastewater, or other liquid flowing into the sewage treatment plant;

“five-day biochemical oxygen demand” (BOD₅) means that part of oxygen usually associated with biochemical oxidation of organic material within 5 days at 20° C;

“MPN index” means the most probable number of coliform organisms in a given volume of wastewater as determined by statistical estimation;

“odour nuisance” means a continuous or repeated odour, smell or aroma, in an affected area which is offensive, obnoxious, troublesome, annoying, unpleasant or disagreeable to a person:

- (a) residing in the affected area;
- (b) working in the affected area; or
- (c) present at a location in the affected area which is normally open to members of the public;

if the odour, smell or aroma

- (d) is the subject of at least 5 written complaints received by the Director in a form satisfactory to the Director and within a 90 day period, 5 different persons falling within clauses (a), (b) or (c), who do not live in the same household; or
- (e) is the subject of at least one written complaint, received by the Director in a form satisfactory to the Director, from a person falling within clauses (a), (b) or (c), and the Director is of the opinion that if the odour, smell or aroma had occurred in a more densely populated area there would have been at least 5 written complaints received within a 90 day period from 5 different persons who do not live in the same household.

“sewage” means human body, toilet, liquid, waterborne culinary, sink or laundry waste;

“sewage effluent” means sewage after it has undergone at least one form of physical, or biological treatment;

“sludge” means accumulated solid material containing large amounts of entrained water which has separated from wastewater during processing;

“total coliform” means a group of aerobic and facultative anaerobic, gram-negative, non-spore forming, rod-shaped bacteria, that ferment lactose with gas and acid formation within 48 hours at 35° C and inhabit predominantly the intestines of man or animals, but are occasionally found elsewhere and include the sub-group of fecal coliform bacteria;

“UV disinfection” means a disinfection process for treating wastewater using ultraviolet radiation; and

“UV dose” means the units of intensity of ultra violet light that is required to kill bacteria and viruses present in the sewage effluent.

GENERAL REQUIREMENTS

This Section of the Licence contains requirements intended to provide guidance to the Licencee in implementing practices to ensure that the environment is maintained in such a manner as to sustain a high quality of life, including social and economic development, recreation and leisure for present and future Manitobans.

1. In addition to any of the following specifications, limits, terms and conditions specified in this Licence, the Licencee shall, upon the request of the Director:
 - (a) sample, monitor, analyze or investigate specific areas of concern regarding any segment, component or aspect of pollutant storage, containment, handling, treatment and disposal systems, for such pollutants, ambient quality, aquatic toxicity, seepage characteristics and discharge rates and for such duration and frequencies as may be specified;
 - (b) determine the environmental impact associated with the release of any pollutant from the Development ; or
 - (c) provide the director within such time as may be specified, with such reports, drawings, specifications, analytical data, bioassay data, flow rate measurements and such other information as may from time to time be requested.
2. The Licencee shall carry out all preservations and analyses of liquid samples in accordance with the methods prescribed in the most recent edition of Standard Methods for the Examination of Water and Wastewater published jointly by the American Public Health Association, the American Waterworks Association and the Water Pollution Control Federation, or in accordance with equivalent preservation and analytical methodologies approved by the Director.
3. The Licencee shall submit all information required to be provided to the Director under this Licence, in writing, in such form (including number of copies), and of such content as may be required by the Director.
4. The Licencee shall ensure that the wastewater treatment plant is operated in such a manner that:
 - (a) all the sewage generated within the Rivergate plan of subdivision of parts of River Lots 32 and 33 Parish of St. Paul, entered and registered in Winnipeg Land Titles Office on June 17, 1993 as Plan No. 29691, is directed towards the wastewater treatment plant;
 - (b) only sewage is discharged into the wastewater treatment plant; and
 - (c) waste solids and sewage sludge are treated and disposed at a facility approved by the Director.
5. The Licencee shall not cause or permit an odour nuisance to be created as a result of the construction, operation or alteration of the Development, and shall take such steps as the Director may require to eliminate or mitigate an odour nuisance.
6. The Licencee shall install, operate, and maintain an effluent discharge pipeline from the sewage treatment plant into the Red River so that effluent is discharged a minimum of 20 metres from the nearest shoreline. The Licencee shall take the necessary steps to prevent freezing of the effluent in the pipeline.
7. The Licencee shall ensure that adequate instrumentation is installed to provide constant monitoring of the UV process to ensure compliance with the disinfection requirements. Such instrumentation shall include but not be limited to the following:
 - a) an UV sensor to monitor lamp intensity;
 - b) appropriate alarm and shutdown systems;
 - c) a lamp monitoring system to identify the location of individual lamp failures;

- d) an hour meter which cannot be reset to display actual hours of UV lamp operation; and
- e) protective circuits for overcurrent and ground current leakage detection.

SPECIFICATIONS, LIMITS, TERMS AND CONDITIONS

- 8. The Licencee shall ensure that the sewage load on the wastewater treatment plant does not exceed the design capacities as follows:
 - (a) hydraulic loading not to exceed 378,540 litres per day (84 cubic metres per day) peak flow condition; and
 - (b) organic loading not to exceed 17 kilograms of five-day biochemical oxygen demand (BOD₅) per day.
- 9. The Licencee shall ensure that the UV lamps have a rated output of at least 253 nanometers (nm) capable of delivering a germicidal dose in excess of 30,000 microwatt seconds/sq cm.
- 10. The Licencee shall ensure that the UV units are sized to give a germicidal dose of 20,000 or more microwatt seconds/sq cm at the end of the lamp life.
- 11. The Licencee shall not discharge sewage effluent from the sewage treatment plant, where:
 - (a) the organic content of the effluent, as indicated by the five-day biochemical oxygen demand (BOD₅), is in excess of 30 milligrams per litre;
 - (b) the fecal coliform content of the sewage effluent, as indicated by the MPN index, is in excess of 200 per 100 millilitres of sample;
 - (c) the total coliform content of the sewage effluent, as indicated by the MPN index, is in excess of 1500 per 100 millilitres of sample;
 - (d) the suspended matter content of the sewage effluent, as indicated by the non-filterable residue is in excess of 20 milligrams per litre; or
 - (e) the maximum concentration of un-ionized ammonia in the sewage effluent is in excess of 10 mg/l.

MONITORING AND REPORTING SPECIFICATIONS

- 12. The Licencee shall provide a system acceptable to the Director, to measure the sewage flows to the wastewater treatment plant, prior to operating the wastewater treatment plant.
- 13. The Licencee shall arrange for the taking of samples of influent sewage before the sewage enters the treatment plant, at a location that is accessible during all weather conditions, and of the treated sewage effluent at a location that is accessible during all weather conditions.
- 14. The Licencee shall provide a heated and secured effluent monitoring station acceptable to the Director and equipped with:
 - (a) a direct access way for an effluent sampling line to a location near the discharge from the UV disinfection chamber; and
 - (b) an electrical power source of 15 amperes at 110 volts.

15. The sampling locations for the influent sewage, and the treated sewage effluent shall be approved by the Director.
16. The Licencee shall:
- take one composite sample of effluent from the sewage treatment plant during the discharge period once each month;
 - take one grab sample of effluent from the sewage treatment plant during the discharge period once each month;
 - have the composite effluent sample analyzed for five day biochemical oxygen demand, field temperatures, field pH, ammonia and total suspended solids, using methods from the latest edition of Standard Methods for the Examination of Water and Wastewater, or using other methods approved by the Director;
 - have the grab sample analyzed for fecal coliform content and total coliform content using methods from the latest edition of Standard Methods for the Examination of Water and Wastewater, or using other methods approved by the Director, and
 - report the results to the Director within 60 days of the samples being taken.
17. The Licencee shall, during the three month period following the commissioning of the UV disinfection system:
- take grab samples of the effluent from the sewage treatment plant during the discharge period once each week;
 - have the grab samples analyzed for total suspended solids, fecal coliform content and total coliform content using methods from the latest edition of Standard Methods for the Examination of Water and Wastewater, or using other methods approved by the Director; and
 - report the results to the Director within 60 days of the samples being taken.
18. The Licencee shall:
- prepare "as constructed drawings" for the Development, including the sewage treatment facility and the effluent discharge pipeline complete with final elevations, and shall label the drawings "As Constructed"; and
 - provide to the Director, on or before May 30, 1997, two sets of "As Constructed Drawings" of the Development.
19. The Licencee shall in case of physical or mechanical breakdown of the wastewater collection and/or treatment system:
- notify the Director immediately;
 - identify the repairs required to the waste collection and/or treatment system; and;
 - complete the repairs in accordance with the written instructions of the Director.

REVOCATION

- A. If, in the opinion of the Director, the Licencee has exceeded or is exceeding or has or is failing to meet the specifications, limits, terms, or conditions set out in this Licence, the Director may, temporarily or permanently, revoke this Licence.

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- B. If the Licencee has not commenced construction of the Development within three years of the date of this Licence, the Licence is revoked.
- C. If, in the opinion of the Director, new evidence warrants a change in the specifications, limits, terms or conditions of this Licence, the Director may require the filing of a new proposal pursuant to Section 11 of The Environment Act.


Larry Strachan, P. Eng.
Director
Environment Act

FILE 3508.00

CANCELLED