



Ministry of the Environment  
Ministère de l'Environnement

**AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL**

NUMBER 1893-924Q6T

Issue Date: January 10, 2013

City of Ottawa  
100 Constellation Crescent  
Ottawa, Ontario  
K2G 6J8

Site Location: 395 Didsbury Road  
City of Ottawa

*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:*

**Proposed Works**

the upgrades to the existing Signature Ridge Pumping Station located in the City of Ottawa, resulting in an increased new design rated capacity of 311 L/s consisting of the following:

modification of the existing wet well building and control building including the mechanical, electrical and structural components,

replacement of the existing three (3) submersible non-clog pumps with three (3) NP-3315.180 MT, 110 hp, submersible pumps (two for duty and one for standby), each pump capable of handling 222 L/s at the total dynamic head of 20.1 m, complete with upgraded electrical and electronic control systems, an ultrasonic level transmitter connected to City of Ottawa Central Wastewater SCADA System, with all other appurtenances necessary to have a complete and operable pumping station, discharging via the existing 400 mm diameter forcemain to gravity sewer on Kanata Avenue at the Campeau Drive intersection;

installation of approximately 22 m long, 600 mm diameter emergency station overflow pipe, allowing emergency overflow to the existing Didsbury stormwater management pond, ultimately discharging to Carp River and Ottawa River;

all in accordance with the application dated May 30, 2012 and received on June 5, 2012, including the design report entitled "Preliminary Design for the Signature Ridge Pumping Station - Final Report, dated January 25, 2011 and prepared by R.V. Anderson Associates Limited, and final plans and specifications prepared by Stantec Consulting Ltd.

**Previous Work**

Sewage Pumping Station

Sanitary sewage pumping station, forcemain and appurtenances to be constructed in concession 1 and 2, part of lots 3 and 4, in the city of Kanata as follows:

Sanitary Forcemain

together with a 4.5 m x 6.0 m concrete wet well, equipped with three (3) submersible non-clog pumps working as a duplex system, (one stand-by pump) with the two operating pumps rated at 270 L/s at a T.D.H of 23.6 m, including float switches, ultrasonic sensors, interconnecting piping and valves, 406 m forcemain, electrical equipment and controls, emergency pumpout chamber, automatic sluice gate, mechanical bar screen, and a 205 kw emergency generator for stand-by power,

all in accordance with the plans and specifications prepared by Cumming Cockourn Limited, Consulting Engineers, at a total estimated cost, including engineering and contingencies of ONE MILLION, TWO HUNDRED AND TEN THOUSAND DOLLARS (\$1,210, 000.00).

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

1. " Approval " means this Environmental Compliance Approval and any Schedules to it, including the application and supporting documentation ;
2. "BOD 5 " (also known as TBOD5) means five day biochemical oxygen demand measured in an unfiltered sample and includes carbonaceous and nitrogenous oxygen demand;
3. " Director " means any Ministry employee appointed by the Minister pursuant to section 5 of the Part II.1 of the Environmental Protection Act;
4. " District Manager " means the District Manager of the Ottawa District Office of the Ministry;
5. "Emergency Situation" includes a structural, mechanical or electrical failure that causes a temporary reduction in the capacity of the Sewage Pumping Station and an unforeseen flow condition that may result in danger to public health, personal injury, severe property damage, or major equipment damage;
6. "EPA" means the Environmental Protection Act , R.S.O 1990, c.E.19, as amended;
7. "Event" means an action or occurrence, at a given location within the Sewage Pumping Station that causes a Pumping Station Overflow. An Event ends when there is no recurrence of an Overflow in the 12-hour period following the last Overflow occurrence;
8. " Minister's Decision Letter " means the letter dated March 30, 2011 signed by the Minister of the Environment, and addressed to the City of Ottawa (ENV1283MC-2010-5172);
9. " Ministry " means the Ontario Ministry of the Environment;
10. " Owner " means The City of Ottawa, and includes its successors and assignees;
11. "Pumping Station Overflow" means a discharge to the environment from the Sewage Pumping Station at a location other than the station discharge forcemain;
12. "Pumping Station Overflow Monitoring Program" means a document or a set of documents which describe measures to minimize Pumping Station Overflows from the Sewage Pumping Station;
13. "Previous Works " means those portions of the sewage works previously constructed and approved under a certificate of approval;

14. "Proposed Works " means the sewage works described in the Owner 's application, this Approval and in the supporting documentation referred to herein, to the extent approved by this Approval;

15. " Regional Director " means the Regional Director of the Eastern Region of the Ministry;

16. " Substantial Completion " has the same meaning as "substantial performance " in the Construction Lien Act ; and

17. " Works " means the sewage works described in the Owner 's application, this Approval and in the supporting documentation referred to herein, to the extent approved by this Approval and includes both Previous Works and Proposed 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 PROVISIONS**

1.1 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 conditions herein and shall take all reasonable measures to ensure any such person complies with the same.

1.2 Except as otherwise provided by these Conditions, the *Owner* shall design, build, install, operate and maintain the *Works* in accordance with the description given in this *Approval* , the application for approval of the *Works* and the submitted supporting documents and plans and specifications as listed in this *Approval* .

1.3 Where there is a conflict between a provision of any submitted document referred to in this *Approval* and the Conditions of this *Approval* , the Conditions in this *Approval* shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

1.4 Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

1.5 The requirements of this *Approval* are severable. If any requirement of this *Approval* , or the application of any requirement of this *Approval* to any circumstance, is held invalid or unenforceable, the application of such requirement to other circumstances and the remainder of this *Approval* shall not be affected thereby.

### **2. OVERFLOWS**

2.1 Any Pumping Station Overflow is prohibited, except:

(a) In an Emergency Situation;

(b) Where the Pumping Station Overflow is a direct and unavoidable result of a planned maintenance procedure, the Owner notified the District Manager 15 days prior to the Pumping Station Overflow and the District Manager has given written consent of the overflow; or

(c) Where the Pumping Station Overflow is planned for research or training purposes, the discharger notified the District Manager 15 days prior to the Pumping Station Overflow and the District Manager has given written consent of the Pumping Station Overflow.

2.2 The Owner shall, during a Pumping Station Overflow Event, take samples of the effluent being impacted by the Pumping Station Overflow at the Pumping Station site using the sampling type and protocols in Condition (3.2) as soon as practical after the event.

2.3 The Owner shall submit Pumping Station Overflow Event Report to the District Manager 60 days after each overflow event. Event Report shall be in an electronic format specified by the Ministry. The Report shall include, at a minimum, the following information and interpretation of the information:

- (a) The date, time, and duration of the Event;
- (b) The location of the Event;
- (c) The measured or estimated volume of the Event; and
- (d) The reason for the Event;

### 3. MONITORING AND RECORDING

3.1 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.

3.2 Samples shall be collected at the following sampling point(s), at the frequency specified, by means of the specified sample type and analysed for each parameter listed and all results recorded:

<b>Table 1 – Monitoring during an Overflow event</b>	
Samples to be collected from the pumping station Overflow stream from all locations where Overflow is to occur	
Sample Type	Grab (or equivalent automated samples)
Parameters	BOD 5 , Total Suspended Solids, Total Phosphorus, Total Ammonia, pH, Temperature, and use best efforts to analyse for E. Coli when practical

The sample must be collected during an overflow event as soon as practical after the commencement of an event.

3.3 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 Procedure F-10-1, "Procedures for Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works (Liquid Waste Streams Only)", as amended from time to time by more recently published editions;
- (b) 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;
- (c) The publication "Standard Methods for the Examination of Water and Wastewater" (21st edition), as amended from time to time by more recently published editions; and
- (d) for any parameters not mentioned in the documents referenced in (a) and (b), the written approval of the District Manager shall be obtained prior to sampling.

3.4 The measurement frequencies specified in subsection (3.2) in respect of any parameter are

minimum requirements which may, after five years from the date of issuance, of monitoring in accordance with this Condition, be modified or removed by the District Manager in writing from time to time.

#### 4. REPORTING

4.1 The Owner shall report, in writing, monitoring data for all the parameters specified in Condition 3.2 to the District Manager, within 10 working days of the Pumping Station Overflow Event.

4.2 In addition to the obligations under Part X of the Environmental Protection Act, the Owner shall, within **10 working days** of the occurrence of any reportable spill as defined in Ontario Regulation 675/98, By-pass or loss of any product, by-product, intermediate product, oil, solvent, waste material or any other polluting substance into the environment, submit a full written report of the occurrence to the District Manager describing the cause and discovery of the spill or loss, clean-up and recovery measures taken, preventative measures to be taken and schedule of implementation.

4.3 The Owner shall, upon request, make all manuals, plans, records, data, procedures and supporting documentation available to Ministry staff.

#### 5. EXPIRY OF APPROVAL

5.1 The approval issued by 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*.

#### 6. UPON THE SUBSTANTIAL COMPLETION OF THE WORKS

6.1 Upon the *Substantial Completion* of the *Works*, the *Owner* shall prepare a statement, certified by a Professional Engineer, that the *Works* are constructed in accordance with this *Approval*, and upon request, shall make the written statement available for inspection by *Ministry* personnel.

6.2 Within one year of the *Substantial Completion* 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*.

#### 7. OPERATION AND MAINTENANCE

7.1 The *Owner* shall exercise due diligence in ensuring that, at all times, the *Works* and the related equipment and appurtenances used to achieve compliance with this *Approval* are properly operated and maintained. Proper operation and maintenance shall include effective performance, adequate funding, adequate operator staffing and training, including training in all procedures and other requirements of this *Approval* and the *Act* and regulations, adequate laboratory facilities, process controls and alarms and the use of process chemicals and other substances used in the *Works*.

7.2 The *Owner* shall prepare an operations manual within six (6) months of *Substantial Completion* of the *Works*, that includes, but not necessarily limited to, the following information:

(a) operating 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) procedures for the inspection and calibration of monitoring equipment;
- (e) procedures for receiving, responding and recording public complaints, including recording any follow-up actions taken.

7.3 The *Owner* shall maintain the operations manual current and retain a copy at the location of the *Works* for the operational life of the *Works* . Upon request, the *Owner* shall make the manual available to *Ministry* staff.

7.4 (a) Notwithstanding any terms and conditions of this *Certificate* , the proposed *Works* shall not commence operation until the *Owner* obtains a letter from the *District Manager*, stating that the proposed *Works* comply with all the applicable terms and conditions that may apply to the proposed *Works* as specified in the *Minister's Decision Letter*.

(b) The *Owner* shall, prior to implementing the proposed *Works* , submit to the *District Manager* all supporting documentation that demonstrates that the proposed *Works* comply with all the applicable terms and conditions as specified in the *Minister's Decision Letter*.

## **8. SOURCE WATER PROTECTION**

The *Owner* shall, within sixty (60) calendar days of the Minister of the Environment posting approval of a *Source Protection Plan* on the environmental registry established under the Environmental Bill of Rights, 1993 for the area in which this *Certificate* is applicable, apply to the Director for an amendment to this *Certificate* that includes the necessary measures to conform with all applicable policies in the approved *Source Protection Plan*.

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

1. Condition 1 is imposed to confirm that the *Works* are built and operated in the manner in which they were described for review 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. The condition also advises the Owners their responsibility to notify any person they authorized to carry out work pursuant to this Approval the existence of this Approval.
2. Condition 2 is included to indicate that Pumping Station Overflows that are untreated, to the receiving watercourse are prohibited except under special circumstances. The notification and documentation requirements allow the Ministry to take action in an informed manner and will ensure the *Owner* is aware of the extent and frequency of the Pumping Station Overflow Events.
3. Conditions 3 and 4 are included to enable the *Owner* to monitor, record, analyse and report on the quantity and quality of Pumping Station Overflows to the Didsbury Stormwater Management Facility.
4. Condition 5 is included to confirm 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.
5. Condition 6 is included to confirm that the *Works* are constructed in accordance with the approval and that record drawings of the *Works* "as constructed" are maintained for future references.
6. Condition 7 is included;

a) to require that the Works be properly operated, maintained, funded, staffed and equipped such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented. As well, the inclusion of a comprehensive operations manual governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the Owner and made available to the Ministry. Such a manual is an integral part of the operation of the Works. Its compilation and use should assist the Owner in staff training, in proper plant operation and in identifying and planning for contingencies during possible abnormal conditions. The manual will also act as a benchmark for Ministry staff when reviewing the Owner's operation of the Works.

b) Condition 7.4 is included to ensure that the proposed Works comply with the *Minister's Decision Letter*.

7. Condition 8 is included to ensure that the Works covered by this Certificate will conform to the significant threat policies and designated Great Lakes policies in the *Source Protection Plan*.

**Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 3-1393-90-006 issued on August 3, 1990.**

*In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:*

1. 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;
2. 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:*

3. The name of the appellant;
4. The address of the appellant;
5. The environmental compliance approval number;
6. The date of the environmental compliance approval;
7. The name of the Director, and;
8. 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 Director appointed for the  
purposes of Part II.1 of the  
Environmental Protection Act  
Ministry of the Environment  
2 St. Clair Avenue West, Floor  
12A  
Toronto, Ontario  
M4V 1L5

**\* 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) 314-4506 or [www.ert.gov.on.ca](http://www.ert.gov.on.ca)**

*The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.*

DATED AT TORONTO this 10th day of January, 2013

Sherif Hegazy, P.Eng.

Director

appointed for the purposes of Part II.1 of  
the *Environmental Protection Act*

SN/

c: District Manager, MOE Ottawa District Office

Carina Duclos, Manager Design & Construction - West

James Ricker, Stantec Consulting Ltd.