



AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 8081-9Z4H48
 Issue Date: October 20, 2015

The Corporation of the City of London
 300 Dufferin Ave
 Post Office Box, No. 5035
 London, Ontario
 N6A 4L9

Site Location: Greenway Water Pollution Control Centre
 109 Greenside Avenue
 London, County of Middlesex
 N6J 2X5

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:

Alterations and Extensions to the existing municipal sewage treatment works for the collection, transmission, treatment and disposal of domestic sewage, from the current Rated Capacity of 152,175 m³/d to a new Rated Capacity of 170,000 m³/d, consisting of the following:

Proposed Works

Inlet Sewers

- extension of the Westminster sewer to the new Westminster Headworks;
- diversion pipe around Westminster Headworks to the Main Headworks for manual diversion of flows as necessary;

Headworks

Westminster Headworks

- three (3) mechanically cleaned screens (one standby) each having a Peak Flow Rate of 70,000 m³/d;
- two (2) vortex type grit removal units, each having a Peak Flow Rate of 70,000 m³/d, together with two (2) grit pumps and two (2) grit classifiers;
- de-gritted sewage pipe to 2 Section and 3 Section primary clarifiers;
- de-gritted sewage primary bypass pipe to 2 Section aeration tanks;

Treatment Train

3 Section

- conversion or decommissioning of all existing secondary clarifiers;
- three (3) 92 m x 16.5 m x 4.67 m SWD secondary clarifiers, each equipped with sludge and scum removal mechanisms;
- one (1) sludge pumping station with three (3) pumps each rated for 295 L/s at 14.7 m TDH;

Wet Weather Holding Tanks

- three (3) wet weather holding tanks converted from three existing 3 Section secondary clarifiers, with a total storage volume of 7,805 m³, operating in series in a flow-through mode, receiving primary effluent during a wet weather event, with overflow discharging to the effluent outfall manhole and the retained wastewater returned to the headworks after the wet weather event;

Chemical System (Chemically Enhanced Primary Treatment)

- one (1) 27,000 L chemical storage tank;
- three (3) chemical dosing pumps each rated for a flow range of 44 to 447 L/hr at 300 kPa for CEPT coagulant dosing at the new Westminster Headworks;
- three (3) chemical dosing pumps each rated for a flow range of 44 to 447 L/hr at 300 kPa for CEPT coagulant dosing at the existing Main Headworks;
- one (1) polymer make-down system and two (2) polymer feed systems, one for 2 Section and one for 3 Section primary clarifiers, each including two (2) metering pumps;

Waste Activated Sludge Holding Tank

- one (1) 2,370 m³ waste activated sludge holding tank equipped with coarse bubble aeration/mixing system, converted from an existing 3 Section secondary clarifier;

Sludge Receiving Station

- one (1) sludge receiving station with connections for two (2) tankers to off load sludge, complete with a 60,000 L below grade storage tank and a sludge transfer pumping station equipped with two (2) sludge transfer pumps each rated for 60 L/s at 30 m TDH;

Sludge Thickening

- three (3) sludge thickening feed pumps, each rated for 30 L/s at 22.1 m TDH;

Sludge Storage Tanks

- demolition of the existing 16.5 m diameter sludge storage tank;

Previous Works

Inlet Sewers

- a 1,200 mm diameter sewer from the east (high level sewer);
- a 1,200 mm diameter sewer from the north (low level sewer);
- a 900 mm diameter sewer from the south;
- a 600 mm diameter forcemain from Berkshire Pumping Station;

Headworks

Main Headworks

- two (2) mechanical rake systems in the high level channels, each with a Peak Flow Rate of 76,650 m³/d;
- two (2) mechanical rake systems in the low level channels, each with a Peak Flow Rate of 68,870 m³/d;
- four (4) raw sewage pumps (one standby) for the low level channels, each Rated at 47,700 m³/d at 15 m TDH and equipped with VFD;
- two (2) 6.8 m diameter vortex type grit removal units, each with a peak Flow Rate of 227,200 m³/d, together with two (2) grit pumps and two (2) grit classifiers;
- a 915 mm diameter grit system bypass sewer;

Flow Distribution

- degritted sewage channel with modulated gates to distribute sewage to three treatment trains;

Treatment Trains

1 Section (Average Daily Flow 30,000 m³/d)

- two (2) 33.5 m x 9.1 m x 3 m SWD primary clarifiers, each equipped with sludge and scum removal mechanisms;
- one (1) 28.8 m x 18.6 m x 3 m SWD aeration tank equipped with fine bubble aeration system;
- one (1) 32.3 m x 15.2 m x 3 m SWD aeration tank equipped with fine bubble aeration system;
- one (1) 27.9 m x 18.8 m x 3 m SWD aeration tank equipped with fine bubble aeration system;
- one (1) 36.6 m x 29.9 m x 3 m SWD aeration tank equipped with fine bubble aeration system;
- one (1) 30.5 m dia x 3.35 m SWD secondary clarifier, equipped with sludge and scum removal mechanisms;
- one (1) 29.0 m dia x 3.35 m SWD secondary clarifier, equipped with sludge and scum removal mechanisms;
- two (2) RAS sludge pumping stations, one with two (2) pumps each rated at 145 L/s at 14.0 m T.D.H., and the other with two (2) pumps each rated at 126 L/s at 4.6 m T.D.H;

2 Section (Average Daily Flow 40,000 m³/d)

- two (2) 36.5 m x 9.1 m x 3 m SWD primary clarifiers, each equipped with sludge and scum removal mechanisms;
- secondary by-pass channel to Wet Weather Holding Tanks;
- one (1) 81.7 m x 38 m x 2.86 m SWD aeration tank equipped with fine bubble aeration system, operating in a two-train mode;
- one (1) 35.0 m dia x 3.0 m SWD secondary clarifier, equipped with sludge and scum removal mechanisms;
- two (2) 35.2 m x 13 m x 3.6 m SWD secondary clarifiers, each equipped with sludge and scum removal mechanisms;
- one (1) RAS sludge pumping station with two (2) RAS pump each rated at 100 L/s at 7.6 m T.D.H. and three (3) RAS pumps each rated at 100 L/s at 12.8 m TDH;

3 Section (Average Daily Flow 100,000 m³/d)

- five (5) 35.18 m x 9.14 m x 3.05 SWD primary clarifiers, each equipped with sludge and scum removal mechanisms;
- secondary by-pass channel to Wet Weather Holding Tanks;
- six (6) 140.2 m x 9.14 m x 3.12 m SWD aeration tanks equipped with fine bubble aeration system, operating in a three-train mode;
- five (5) secondary clarifiers, each equipped with sludge and scum removal mechanisms (to be converted or decommissioned);
- one (1) sludge pumping station with six (6) pumps (to be decommissioned);

Air Blowers

- three (3) air blowers for 1 Section and 2 Section, each rated at 19,200 m³/h at 50 kPa;
- four (4) air blowers for 3 Section, each rated at 28,890 m³/h at 50 kPa;

Phosphorus Removal

- two (2) 27,720 L and one (1) 24,000 L phosphorus removal chemical storage tanks;
- five (5) chemical dosing pumps (two standby), each rated at 26 L/h;

Disinfection System

- one (1) UV disinfection system, comprising two banks of UV lamps with a Peak Flow Rate of 304,350 m³/d;

Waste Activated Sludge Thickening

- two (2) rotating drum sludge thickeners, each having a capacity of 50 L/s and including flocculation tank and

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agitator/mixer;

- two (2) dissolve air floatation and thickening tank system complete with aeration and ancillary equipment for standby to the rotating drum sludge thickeners;
- polymer system with one (1) bulk storage tank and one (1) make down polymer skid consisting of two (2) feed pumps (one standby), one (1) application polymer storage tank, one (1) application polymer skid consisting of three (3) feed pumps (one standby) to the two (2) rotating drum sludge thickeners and the two (2) dissolved air flotation and thickening units;

Sludge Dewatering

- three (3) centrifuges (one standby) each with a capacity of 20 L/s or 1,760 kg/h whichever is the less, complete with individual sludge feed pumps and grinders;
- three (3) cake pumps with dual discharge and feed lines to the incinerator or the Bioset reactor;
- one (1) centrate tank and two (2) centrate pumps (one standby) and discharge lines to rotary drum thickeners or sludge holding tanks;
- polymer system with two (2) bulk polymer tanks, two (2) polymer makedown skids, two (2) makeup polymer storage tanks and three (3) makeup polymer metering pumps;
- two (2) outdoor lime silos, one (1) lime hopper and conveyors to the cake pump hoppers;

Sludge Storage Tanks

- one (1) 2,184 m³ sludge storage tank equipped with submersible mixer;
- one (1) 1,410 m³ sludge storage tank equipped with submersible mixer;
- one (1) 1,146 m³ sludge storage tank equipped with submersible mixer (to be demolished);

Sludge Incinerator

- one (1) fluidized bed sludge incineration system having a capacity 2,695 kg/h dry solids complete with venturi scrubber and polymer solution dispenser auxiliary equipment;

Ash Handling

- two (2) 150 mm dia forcemains to divert the existing ash slurry forcemain to the geotube lay-down area;
- seven (7) 12 m x 20 m concrete containment bays to provide a lay-down area for the geotube containers, with an intercepting drainage ditch and pipe to collect and discharge filtrate to the collection sump;
- one (1) truck wheel wash station with drain pipe to the collection sump;
- a collection sump equipped with two (2) submersible pumps (duplex operation) and a discharge forcemain to Section 3 aeration tanks;

Backup Sludge Stabilization (The Bioset Process)

- a 1.2 m diameter x 9.1 m long reactor to receive the mixture from the cake pumps and discharged after one hour reaction time into a truck or roll-on container to be transported off-site;

including 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 submitted supporting documents listed in Schedule A.

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

"Approval" means this entire document and any schedules attached to it, and the application;

"Average Daily Flow" means the cumulative total sewage flow to the sewage works during a calendar year divided by the number of days during which sewage was flowing to the sewage works that year;

"BOD5" (also known as TBOD5) means five day biochemical oxygen demand measured in an unfiltered sample and

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includes carbonaceous and nitrogenous oxygen demand;

"By-pass" means diversion of sewage around one or more unit processes within the Sewage Treatment Plant with the diverted sewage flows being returned to the Sewage Treatment Plant treatment train upstream of the Final Effluent sampling location, and discharging to the environment through the Sewage Treatment Plant outfall;

"CBOD5" means five day carbonaceous (nitrification inhibited) biochemical oxygen demand measured in an unfiltered sample;

"Daily Concentration" means the concentration of a contaminant in the effluent discharged over any single day, as measured by a composite or grab sample, whichever is required;

"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;

"*E. coli*" refers to the thermally tolerant forms of *Escherichia* that can survive at 44.5 degrees Celsius;

"Emergency Situation" means a structural, mechanical or electrical failure that causes a temporary reduction in the capacity of the Sewage Treatment Plant or an unforeseen flow condition that may result in:

- a) danger to the health or safety of any person; or,
- b) injury or damage to any property, or serious risk of injury or damage to any property; or
- c) treatment process biomass washout.

"Equivalent Equipment" means a substituted equipment or like-for-like equipment that meets the required quality and performance standards of a named equipment;

"Event" means an action or occurrence, at a given location within the Sewage Treatment Plant that causes a Plant Bypass or Plant Overflow. An Event ends when there is no recurrence of a Bypass or Overflow in the 12-hour period following the last Bypass or Overflow. Two Events are separated by at least 12 hours during which there has been no recurrence of a Bypass or Overflow;

"Final Effluent" means sewage discharge via the Sewage Treatment Plant outfall after undergoing the full train of unit processes as listed in the Approval;

"Geometric Mean Density" is the n th root of the product of multiplication of the results of n number of samples over the period specified;

"Limited Operational Flexibility" (LOF) means any modifications that the Owner is permitted to make to the Works under this Approval;

"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;

"Monthly Average Concentration" means the arithmetic mean of all Daily Concentrations of a contaminant in the effluent sampled or measured, or both, during a calendar month;

"Monthly Average Daily Flow" means the cumulative total sewage flow to the sewage works during a calendar month divided by the number of days during which sewage was flowing to the sewage works that month;

"Monthly Average Loading" means the value obtained by multiplying the Monthly Average Concentration of a contaminant by the Monthly Average Daily Flow over the same calendar month;

"Notice of Modifications" means the form entitled "Notice of Modifications to Sewage Works";

"Owner" means The Regional Municipality of Waterloo and its successors and assignees;

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

"Peak Flow Rate" means the maximum rate of sewage flow for which the plant or process unit was designed;

"Plant Overflow" means a discharge to the environment from the Sewage Treatment Plant at a location other than the plant outfall or into the plant outfall downstream of the Final Effluent sampling location;

"Previous Works" means those portions of the sewage works previously constructed and approved under an Approval;

"Proposed Works" means the sewage works described in the Owner's application, this Approval, to the extent approved by this Approval;

"Rated Capacity" means the Average Daily Flow for which the Works are approved to handle;

"Regional Water Compliance Manager" means the Regional Water Compliance Manager of the Southwestern Region of the Ministry;

"Sewage Treatment Plant" means the entire sewage treatment and effluent discharge facility;

"Substantial Completion" has the same meaning as "substantial performance" in the *Construction Lien Act*;

"Water Supervisor" means the Water Supervisor for the London office of the Ministry; and

"Works" means the sewage works described in the Owner's application, and this Approval, and includes Proposed Works, Previous Works, and modifications made under Limited Operational Flexibility.

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) 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.

(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, and the application for approval of the Works.

(3) Where there is a conflict between a provision of any document in the schedule 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 documents in the schedule, the document bearing the most recent date shall prevail.

(4) Where there is a conflict between the documents listed in the Schedule A, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

(5) The Conditions of this Approval are severable. If any Condition of this Approval, or the application of any requirement of this Approval to any circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the remainder of this Approval shall not be affected thereby.

2. EXPIRY OF APPROVAL

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.

3. CHANGE OF OWNER

(1) The Owner shall notify the Water Supervisor and the Director, in writing, of any of the following changes within thirty (30) days of the change occurring:

(a) change of Owner;

(b) change of address of the 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 Water Supervisor;

(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 Water Supervisor;

(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 Water Supervisor and the Director.

4. UPON THE SUBSTANTIAL COMPLETION OF THE WORKS

(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.

(2) Within one (1) year of the Substantial Completion of the Proposed 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. BY-PASSES

(1) Any By-pass or Plant Overflow is prohibited, except:

(a) in an Emergency Situation;

(b) where the approved design and operation of the Works provides for By-passes to be triggered under the following flow conditions and those conditions have been met:

(i) Bypass of the Secondary Treatment System when the flow rate exceeds 255,000 m³/d and the storage capacity of the Wet Weather Holding Tanks;

(c) where the By-pass / Plant Overflow is a direct and unavoidable result of a planned maintenance procedure, the Owner notified the Water Supervisor 15 days prior to the By-pass and the Water Supervisor has given written consent of the By-pass; and

(d) where the By-pass / Plant Overflow is planned for research or training purposes, the discharger notified the Water Supervisor 15 days prior to the By-pass / Plant Overflow and the Water Supervisor has given written consent of the By-pass / Plant Overflow.

(2) The Owner shall forthwith notify the Spills Action Centre (SAC) and the Medical Officer of Health of all By-pass and Plant Overflow Events. This notice shall include, at a minimum, the following 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 (unless the Event is ongoing);
- (d) the reason for the Event; and
- (e) the level of treatment the By-pass(es) and/or Plant Overflow(s) received and disinfection status of same.

(3) The Owner shall submit By-pass and Plant Overflow Event Reports to the Ministry's local office on a quarterly basis, no later than each of the following dates for each calendar year: February 14, May 15, August 14, and November 15. Event Reports shall be in an electronic format specified by the Ministry. In each Event Report the Owner shall include, at a minimum, the following information on any Events that occurred during the preceding quarter:

- (a) the date of the Event(s);
- (b) the measured or estimated volume of the Event(s);
- (c) the duration of the Event(s);
- (d) the location of the Event(s);
- (e) the reason for the Event(s); and
- (f) the level of treatment the By-pass(es) and/or Plant Overflow(s) received and disinfection status of same.

(4) The Owner shall use best efforts to collect a representative sample consisting of a minimum of two (2) grab samples of the By-pass / Plant Overflow and have it analyzed for parameters in Table 8 and following the protocols specified in Condition 9, one at the beginning of the Event and the second approximately near the end of the Event, to best reflect the effluent quality of such By-pass or Plant Overflow.

(5) The Owner shall maintain a logbook of all Plant By-passes and Plant Overflows, which shall contain, at a minimum, the types of information set out in subsection 2 (a) to 2(e) in respect of each By-pass and Plant Overflow.

6. EFFLUENT OBJECTIVES

(1) Prior to Substantial Completion of the Proposed Works, the Owner shall use best efforts to design, construct and operate the Works with the objective that the concentrations of the materials named below as effluent parameters are not exceeded in the effluent from the Works.

Table 1 - Effluent Objectives (Prior to Substantial Completion of the Proposed Works)	
Effluent Parameter	Concentration Objective (milligrams per litre unless otherwise indicated)
CBOD5	8.5
Total Suspended Solids	8.5
Total Phosphorus	0.6
Unionized Ammonia	0.08
<i>E. coli</i>	150 Organisms/100 mL Monthly Geometric Mean Density

(2) Upon Substantial Completion of the Proposed Works, the Owner shall use best efforts to design, construct and operate the Works with the objective that the concentrations of the materials named below as effluent parameters are not exceeded in the effluent from the Works.

Table 2 - Effluent Objectives (Upon Substantial Completion of the Proposed Works)	
Effluent Parameter	Concentration Objective (milligrams per litre unless otherwise indicated)
CBOD5	7.5
Total Suspended Solids	7.5
Total Phosphorus	0.4
Total Ammonia Nitrogen	3.0 (May 1 to Nov 30) 5.0 (Dec 1 to Apr 30)
<i>E. coli</i>	150 Organisms/100 mL Monthly Geometric Mean Density

Table 3 - Secondary Treatment System Bypass Objectives (Upon Substantial Completion of the Proposed Works)	
Effluent Parameter	Annual Percentage Removal Objective (milligrams per litre unless otherwise indicated)
BOD5	30%
Total Suspended Solids	50%

(3) The Owner shall use best efforts to:

- (a) maintain the pH of the effluent from the Works within the range of 6.5 - 9.0, inclusive, at all times;
- (b) maintain the Monthly Average Concentration of Dissolved Oxygen in the final effluent above 5.0 mg/L during period of April 01 to November 30, inclusive and 6.0 mg/L during period of December 01 to March 31, inclusive;
- (c) operate the works within the Rated Capacity of the Works;
- (d) ensure 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 or sheen or foam or discoloration on the receiving waters.

(4) The Owner shall include in all reports submitted in accordance with Condition 11 a summary of the efforts made and results achieved under this Condition.

7. EFFLUENT LIMITS

(1) Prior to Substantial Completion of the Proposed Works, the Owner shall design and construct and operate and maintain the Works such that the concentrations and waste loadings of the materials named below as effluent parameters are not exceeded in the effluent from the Works.

Table 4 - Effluent Limits (Prior to Substantial Completion of the Proposed Works)		
Effluent Parameter	Average Concentration (milligrams per litre unless otherwise indicated)	Average Waste Loading (kilograms per day unless otherwise indicated)
Column 1	Column 2	Column 3
CBOD5	10.0	1,522
Total Suspended Solids	10.0	1,522
Total Phosphorus	0.75	114.1
Unionized Ammonia	0.1	-

(2) For the purposes of determining compliance with and enforcing subsection (1):

(a) The Monthly Average Concentration of a parameter named in Column 1 of subsection (1) shall not exceed the corresponding maximum concentration set out in Column 2 of subsection (1).

(b) The Monthly Average Loading of a parameter named in Column 1 of subsection (1) shall not exceed the corresponding maximum waste loading set out in Column 3 of subsection (1).

(3) Upon Substantial Completion of the Proposed Works, the Owner shall design and construct and operate and maintain the Works such that the concentrations and waste loadings of the materials named below as effluent parameters are not exceeded in the effluent from the Works.

Table 5 - Effluent Limits (Upon Substantial Completion of the Proposed Works)		
Effluent Parameter	Average Concentration (milligrams per litre unless otherwise indicated)	Average Waste Loading (kilograms per day unless otherwise indicated)
Column 1	Column 2	Column 3
CBOD5	9.0	1,522
Total Suspended Solids	9.0	1,522
Total Phosphorus	0.58	98.6
Total Ammonia Nitrogen	4.0 (May 1 to Nov 30) 6.0 (Dec 1 to Apr 30)	680 1,020

(4) For the purposes of determining compliance with and enforcing subsection (3):

(a) The Monthly Average Concentration of a parameter named in Column 1 of subsection (3) shall not exceed the corresponding maximum concentration set out in Column 2 of subsection (3).

(b) The Monthly Average Loading of a parameter named in Column 1 of subsection (3) shall not exceed the corresponding maximum waste loading set out in Column 3 of subsection (3).

(5) The Owner shall design and construct and operate and maintain the Works such that Monthly Average Concentration of Dissolved Oxygen in the final effluent shall not fall below 4.0 mg/L during period of April 01 to November 30, inclusive and 5.0 mg/L during period of December 01 to March 31, inclusive.

(6) The Owner shall design and construct and operate and maintain the Works such that the effluent is continuously

disinfected during the disinfection season between April 1 and September 30 so that the monthly Geometric Mean Density of *E. coli* does not exceed 200 organisms per 100 millilitres of effluent discharged from the Works.

(7) The Owner shall design and construct and operate and maintain the Works such that the pH of the effluent is maintained within the range of 6.0 - 9.5, inclusive, at all times.

(8) Subsections (1), (5), (6) and (7) shall apply upon the issuance of this Approval.

(9) Subsection (3) upon Substantial Completion of the Proposed Works.

8. OPERATION AND MAINTENANCE

(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 OWRA and regulations, adequate laboratory facilities, process controls and alarms and the use of process chemicals and other substances used in the Works.

(2) The Owner shall prepare an operations manual, 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) a spill prevention control and countermeasures plan, consisting of contingency plans and procedures for dealing with equipment breakdowns, potential spills and any other abnormal situations, including notification of the Water Supervisor; and
- (f) procedures for receiving, responding and recording public complaints, including recording any followup actions taken.

(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.

(4) The Owner shall provide for the overall operation of the Works with an operator who holds a licence that is applicable to that type of facility and that is of the same class as or higher than the class of the facility in accordance with Ontario Regulation 129/04.

9. MONITORING AND RECORDING

The Owner shall, upon commencement of operation of the Works, carry out the following monitoring program:

(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.

(2) For the purposes of this condition, the following definitions apply:

- (a) Weekly means once each week;

(3) Samples shall be collected at the following sampling points, at the frequency specified, by means of the specified

sample type and analyzed for each parameter listed and all results recorded:

Table 6 - Raw Sewage Monitoring - Inlet Works		
Parameters	Sample Type	Frequency
BOD5	Composite	Weekly
Total Suspended Solids	Composite	Weekly
Total Phosphorus	Composite	Weekly
Total Kjeldahl Nitrogen	Composite	Weekly

Table 7 - Final Effluent Monitoring - UV Effluent Chamber		
Parameters	Sample Type	Frequency
CBOD5	Composite	Weekly
Total Suspended Solids	Composite	Weekly
Total Phosphorus	Composite	Weekly
Total Ammonia Nitrogen	Composite	Weekly
<i>E. coli</i>	Grab	Weekly (Apr 1 to Sep 30)
Dissolved Oxygen	Grab	Weekly
pH	Grab	Weekly
Temperature	Grab	Weekly
Unionized Ammonia	Calculated	Weekly

Table 8 - Wet Weather Overflow Monitoring - Outfall Manhole (prior to mixing with secondary effluent)		
Parameters	Sample Type	Frequency
BOD5	Composite	Daily per Event
Total Suspended Solids	Composite	Daily per Event
Total Phosphorus	Composite	Daily per Event
<i>E. Coli</i>	Grab	Daily per Event (Apr 1 to Sep 30)

(4) 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;

(5) The temperature and pH of the effluent from the Works shall be determined in the field at the time of sampling for Total Ammonia Nitrogen. The concentration of un-ionized ammonia shall be calculated using the total ammonia

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concentration, pH and temperature using the methodology stipulated in "Ontario's Provincial Water Quality Objectives" dated July 1994, as amended, for ammonia (un-ionized).

(6) The Owner shall install and maintain (a) continuous flow measuring device(s), to measure the flowrate of the influent to or effluent from the Works with an accuracy to within plus or minus 15 per cent (+/- 15%) of the actual flowrate for the entire design range of the flow measuring device, and record the flowrate at a daily frequency.

(7) 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.

10. RECEIVER IMPACT ASSESSMENT MONITORING AND REPORTING

(1) The Owner shall conduct annual monitoring of Thames River water quality (benthic invertebrates) using the BioMAP method consistent with previous BioMAP study reports (2006 to 2012) by the City of London. The monitoring shall include quantitative and qualitative sampling and taxonomic identification to the lowest practical level (species or genus). The taxonomic work shall be conducted by a qualified professional who has a minimum of ten years relevant experience or possesses genus-level certifications for Groups 2, 3 and 4 taxa issued by the SFS taxonomic certification program. River monitoring locations shall be the two established sites from previous studies, one upstream (T5) and one downstream (T6) of the sewage effluent outfall. The sampling shall take place in the autumn of each year.

(2) The owner shall provide an annual monitoring report, consistent in format and level of detail with previous study reports, to the Southwestern Regional Office within nine (9) months from the end of the first sampling year and six (6) months from the end of the sampling period for each subsequent year. The reports shall include but not limited to details of the methods used, complete results including field measurements and species taxa list with density data and a comparative assessment of monitoring results between the two sampling locations over time.

11. REPORTING

(1) One (1) week prior to the start up of the operation of the Proposed Works, the Owner shall notify the Water Supervisor (in writing) of the pending start up date.

(2) Ten (10) days prior to the date of a planned By-pass being conducted pursuant to Condition 5 and as soon as possible for an unplanned By-pass, the Owner shall notify the Water Supervisor (in writing) of the pending start date, in addition to an assessment of the potential adverse effects on the environment and the duration of the By-pass.

(3) The Owner shall report to the Water Supervisor or designate, any exceedence of any parameter specified in Condition 7 orally, as soon as reasonably possible, and in writing within seven (7) days of the exceedence.

(4) In addition to the obligations under Part X of the *Environmental Protection Act*, the Owner shall, within ten (10) working days of the occurrence of any reportable spill as defined in Ontario Regulation 675/98, bypass 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 Water Supervisor 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.

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

(6) The Owner shall prepare and submit a performance report to the Water Supervisor on an annual basis, within ninety (90) days following the end of the period being reported upon. The first such report shall cover the first annual period following the commencement of operation of the Works and subsequent reports shall be submitted to cover successive annual periods following thereafter. The reports shall contain, but shall not be limited to, the following information:

(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 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;

- (d) a summary of any effluent quality assurance or control measures undertaken in the reporting period;
- (e) a summary of the calibration and maintenance carried out on all effluent monitoring equipment; and
- (f) a description of efforts made and results achieved in meeting the Effluent Objectives of Condition 6.
- (g) a tabulation of the volume of sludge generated in the reporting period, an outline of anticipated volumes to be generated in the next reporting period and a summary of the locations to where the sludge was disposed;
- (h) a summary of any complaints received during the reporting period and any steps taken to address the complaints;
- (i) a summary of all By-pass, spill or abnormal discharge events;
- (j) a copy of all Notice of Modifications submitted to the Water Supervisor as a result of Schedule B, Section 1, with a status report on the implementation of each modification;
- (k) a report summarizing all modifications completed as a result of Schedule B, Section 3; and
- (l) any other information the Water Supervisor requires from time to time.

(7) The Owner shall, within thirty (30) calendar days of issuance of this Approval, submit a Municipal and Local Services Board Sewage Works Profile Information Form, and shall resubmit the updated document every time a notification is provided to the Water Supervisor in compliance with requirements of change of ownership under this Approval.

12. LIMITED OPERATIONAL FLEXIBILITY

(1) The Owner may make modifications to the Works in accordance with the Terms and Conditions of this Approval and subject to the Ministry's "Limited Operational Flexibility Criteria for Modifications to Sewage Works", included under Schedule B of this Approval, as amended.

(2) Sewage works proposed under Limited Operational Flexibility shall adhere to the design guidelines contained within the Ministry's publication "Design Guidelines for Sewage Works 2008", as amended.

(3) The Owner shall ensure at all times, that the Works, related equipment and appurtenances which are installed or used to achieve compliance are operated in accordance with all Terms and Conditions of this Approval.

(4) For greater certainty, the following are not permitted as part of Limited Operational Flexibility:

- (a) Modifications to the Works that result in an increase of the Rated Capacity of the Works;
- (b) Modifications to the Works that may adversely affect the approved effluent quality criteria or the location of the discharge/outfall;
- (c) Modifications to the treatment process technology of the Works, or modifications that involve construction of new reactors (tanks) or alter the treatment train process design;
- (d) Modifications to the Works approved under s.9 of the EPA, and
- (e) Modifications to the Works pursuant to an order issued by the Ministry.

(5) Implementation of Limited Operational Flexibility is not intended to be used for piecemeal measures that result in major alterations or expansions.

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(6) If the implementation of Limited Operational Flexibility requires changes to be made to the Emergency Response, Spill Reporting and Contingency Plan, the Owner shall, as deemed necessary in consultation with the Water Supervisor, provide a revised copy of this plan for approval to the local fire services authority prior to implementing Limited Operational Flexibility.

(7) For greater certainty, any modification made under the Limited Operational Flexibility may only be carried out after other legal obligations have been complied with, including those arising from the *Environmental Protection Act, Niagara Escarpment Planning and Development Act, Oak Ridges Moraine Conservation Act, Lake Simcoe Protection Act* and *Greenbelt Act*.

(8) Prior to implementing Limited Operational Flexibility, the Owner shall complete a Notice of Modifications describing any proposed modifications to the Works and submit it to the Water Supervisor.

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

1. Condition 1 is imposed to ensure 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 ensure that the Works are constructed in a timely manner so that standards applicable at the time of Approval of the Works are still applicable 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 to indicate that By-pass / Plant Overflows of untreated or partially treated sewage to the receiving watercourse is prohibited, save in certain limited circumstances where the failure to By-pass / Plant Overflow could result in greater injury to the public interest than the Bypass itself where a By-pass / Plant Overflow will not violate the approved effluent requirements, or where the By-pass / Plant Overflow can be limited or otherwise mitigated by handling it in accordance with an approved contingency plan. 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 By-pass / Plant Overflow events.

6. Condition 6 is imposed to establish non-enforceable effluent quality objectives which the Owner is obligated to use best efforts to strive towards on an ongoing basis. These objectives are to be used as a mechanism to trigger corrective action proactively and voluntarily before environmental impairment occurs and before the compliance limits of Condition 7 are exceeded.

7. Condition 7 is imposed to ensure that the effluent discharged from the Works to Thames River meets the Ministry's effluent quality requirements thus minimizing environmental impact on the receiver and to protect water quality, fish and other aquatic life in the receiving water body.

8. Condition 8 is included 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.

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9. Condition 9 is included to enable the Owner to evaluate and demonstrate the performance of the Works, on a continual basis, so that the Works are properly operated and maintained at a level which is consistent with the design objectives and effluent limits specified in the Approval and that the Works does not cause any impairment to the receiving watercourse.
10. Condition 10 is included to enable the Ministry to evaluate the impact of waste loading discharges from the Works to Thames River for future references in minimizing environmental impact on the receiver and to protect water quality, fish and other aquatic life in the receiving water body.
11. Condition 11 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.
12. Condition 12 is included to ensure that the Works are operated in accordance with the application and supporting documentation submitted by the Owner, and not in a manner which the Director has not been asked to consider. These Conditions are also included to ensure that a Professional Engineer has reviewed the proposed modifications and attests that the modifications are in line with that of Limited Operational Flexibility, and provide assurance that the proposed modifications comply with the Ministry's requirements stipulated in the Terms and Conditions of this Approval, Ministry of the Environment and Climate Change (MOECC) policies, guidelines, and industry engineering standards and best management practices.

Schedule A

1. Applications for Approval of Municipal and Private Sewage Works, design drawings and reports prepared and submitted by M.M. Dillon Consulting, Fenco MacLaren Inc., Proctor and Redfern Limited, R.V. Anderson Associates Limited and James A. MacLaren Limited, Consulting Engineers;
2. Application for Approval of Municipal and Private Sewage Works together with design drawings and reports dated March 27, 2003, prepared and submitted by Dillon Consulting Limited, Ontario;
3. Application for Approval of Municipal and Private Sewage Works dated October 08, 2003 along with draft design summary, preliminary contract drawings and specifications prepared by Delcan Corporation, Ontario for New Ash Lagoon Decant Pumping Station and preliminary contract drawings and specifications prepared by Stantec Consulting Ltd., London, Ontario for the replacement of Sludge Storage Tank No. 2;
4. Application for Approval of Municipal and Private Sewage Works submitted by Robert Kuzyk of R.V. Anderson Associates Limited dated September 13, 2007;
5. Additional information submitted by Robert Kuzyk of R.V. Anderson Associates Limited dated November 8, 2007 and November 30, 2007;
6. Application for Approval of Municipal and Private Sewage Works submitted by Kirby Oudekerk of Stantec Consulting Ltd. dated February 5, 2010 for the sludge storage tanks expansion;
7. Application for Approval of Municipal and Private Sewage Works submitted by R.W. Kuzyk of R.V. Anderson Associates Limited received May 19, 2011 for the rotary drum sludge thickener.
8. Application for Approval of Municipal and Private Sewage Works submitted by David Evans of R.V. Anderson Associates Limited received September 22, 2011 for the Ash Handling Facility;
9. Application for Approval of Municipal and Private Sewage Works submitted by R.W. Kuzyk of R.V. Anderson Associates Limited for the sludge dewatering upgrades, including the Greenway PCP Solids Options Study Draft Report received on May 12, 2011 and final engineering plans and specifications received on March 28, 2012;
10. Environmental Compliance Approval Application submitted by Ian C. Todhunter of R.V. Anderson Associates Limited received on April 30, 2014, including Design Report, engineering plans and specifications for proposed Rotating Drum Thickeners upgrades;
11. Environmental Compliance Approval Application submitted by Warren Saint of CH2M HILL received on February 25, 2015, for the proposed expansion to a Rated Capacity of 170,000 m³/d, including design brief, engineering plans and specifications.

Schedule B

Limited Operational Flexibility Criteria for Modifications to Municipal Sewage Works

1. The modifications to sewage works approved under an Environmental Compliance Approval (Approval) that are permitted under the Limited Operational Flexibility (LOF), are outlined below and are subject to the LOF conditions in the

Approval, and require the submission of the Notice of Modifications. If there is a conflict between the sewage works listed below and the Terms and Conditions in the Approval, the Terms and Conditions in the Approval shall take precedence.

1.1 Sewage Pumping Stations

- a. Alter pumping capacity by adding or replacing equipment where new equipment is located within an existing sewage treatment plant site or an existing sewage pumping station site, provided that the modifications do not result in an increase of the sewage treatment plant Rated Capacity and the existing flow process and/or treatment train are maintained, as applicable.
- b. Forcemain relining and replacement with similar pipe size where the nominal diameter is not greater than 1,200mm

1.2 Sewage Treatment Process

- a. Installing additional chemical dosage equipment including replacing with alternative chemicals for pH adjustment or coagulants (non-toxic polymers) provided that there are no modifications of treatment processes or other modifications that may alter the intent of operations and may have negative impacts on the effluent quantity and quality.
- b. Expanding the buffer zone between a sanitary sewage lagoon facility or land treatment area and adjacent uses provided that the buffer zone is entirely on the proponent's land.
- c. Optimizing existing sanitary sewage lagoons with the purpose to increase efficiency of treatment operations provided that existing sewage treatment plant rated capacity is not exceeded and where no land acquisition is required.
- d. Optimizing existing sewage treatment plant equipment with the purpose to increase the efficiency of the existing treatment operations, provided that there are no modifications to the works that result in an increase of the approved Rated Capacity, and may have adverse effects to the effluent quality or location of the discharge.
- e. Replacement, refurbishment of previously approved equipment in whole or in part with Equivalent Equipment, like-for-like of different make and model, provided that the firm capacity, reliability, performance standard, level of quality and redundancy of the group of equipment is kept the same or exceeded. For clarity purposes, the following equipment can be considered under this provision: pumps, screens, grit separators, blowers, aeration equipment, sludge thickeners, dewatering equipment, UV systems, chlorine contact equipment, bio-disks, and sludge digester systems.

1.3 Sewage Treatment Plant Outfall

- a. Replacement of discharge pipe with similar pipe size or diffusers provided that the outfall location is not changed.

1.4 Sanitary Sewers

- a. Pipe relining and replacement with similar pipe size within the Sewage Treatment Plant site, where the nominal diameter is not greater than 1,200mm.

1.5 Pilot Systems

- a. Installation of pilot systems for new or existing technologies provided that:

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- i. any effluent from the pilot system is discharged to the inlet of the sewage treatment plant or hauled off-site for proper disposal,
- ii. any effluent from the pilot system discharged to the inlet of the sewage treatment plant or sewage conveyance system does not significantly alter the composition/concentration of the influent sewage to be treated in the downstream process; and that it does not add any inhibiting substances to the downstream process, and
- iii. the pilot system's duration does not exceed a maximum of two years; and a report with results is submitted to the Director and Water Supervisor three months after completion of the pilot project.

2. Sewage works that are exempt from section 53 of the OWRA by O. Reg. 525/98 continue to be exempt and are not required to follow the notification process under this Limited Operational Flexibility.

3. Normal or emergency operational modifications, such as repairs, reconstructions, or other improvements that are part of maintenance activities, including cleaning, renovations to existing approved sewage works equipment, provided that the modification is made with Equivalent Equipment, are considered pre-approved.

4. The modifications noted in section (3) above are not required to follow the notification protocols under Limited Operational Flexibility, provided that the number of pieces and description of the equipment as described in the Approval does not change.



Notice of Modification to Sewage Works

RETAIN COPY OF COMPLETED FORM AS PART OF THE ECA AND SEND A COPY TO THE WATER SUPERVISOR (FOR MUNICIPAL) OR DISTRICT MANAGER (FOR NON-MUNICIPAL SYSTEMS)

Part 1 – Environmental Compliance Approval (ECA) with Limited Operational Flexibility <i>(Insert the ECA's owner, number and issuance date and notice number, which should start with "01" and consecutive numbers thereafter)</i>		
ECA Number	Issuance Date (mm/dd/yy)	Notice number (if applicable)
ECA Owner		Municipality

Part 2: Description of the modifications as part of the Limited Operational Flexibility <i>(Attach a detailed description of the sewage works)</i>
<p>Description shall include:</p> <ol style="list-style-type: none"> 1. A detail description of the modifications and/or operations to the sewage works (e.g. sewage work component, location, size, equipment type/model, material, process name, etc.) 2. Confirmation that the anticipated environmental effects are negligible. 3. List of updated versions of, or amendments to, all relevant technical documents that are affected by the modifications as applicable, i.e. submission of documentation is not required, but the listing of updated documents is (design brief, drawings, emergency plan, etc.)

Part 3 – Declaration by Professional Engineer						
<p>I hereby declare that I have verified the scope and technical aspects of this modification and confirm that the design:</p> <ol style="list-style-type: none"> 1. Has been prepared or reviewed by a Professional Engineer who is licensed to practice in the Province of Ontario; 2. Has been designed in accordance with the Limited Operational Flexibility as described in the ECA; 3. Has been designed consistent with Ministry's Design Guidelines, adhering to engineering standards, industry's best management practices, and demonstrating ongoing compliance with s.53 of the Ontario Water Resources Act; and other appropriate regulations. <p>I hereby declare that to the best of my knowledge, information and belief the information contained in this form is complete and accurate</p>						
<table border="1"> <tr> <td>Name (Print)</td> <td>PEO License Number</td> </tr> <tr> <td>Signature</td> <td>Date (mm/dd/yy)</td> </tr> <tr> <td colspan="2">Name of Employer</td> </tr> </table>	Name (Print)	PEO License Number	Signature	Date (mm/dd/yy)	Name of Employer	
Name (Print)	PEO License Number					
Signature	Date (mm/dd/yy)					
Name of Employer						

Part 4 – Declaration by Owner				
<p>I hereby declare that:</p> <ol style="list-style-type: none"> 1. I am authorized by the Owner to complete this Declaration; 2. The Owner consents to the modification; and 3. This modifications to the sewage works are proposed in accordance with the Limited Operational Flexibility as described in the ECA. 4. The Owner has fulfilled all applicable requirements of the <i>Environmental Assessment Act</i>. <p>I hereby declare that to the best of my knowledge, information and belief the information contained in this form is complete and accurate</p>				
<table border="1"> <tr> <td>Name of Owner Representative (Print)</td> <td>Owner representative's title (Print)</td> </tr> <tr> <td>Owner Representative's Signature</td> <td>Date (mm/dd/yy)</td> </tr> </table>	Name of Owner Representative (Print)	Owner representative's title (Print)	Owner Representative's Signature	Date (mm/dd/yy)
Name of Owner Representative (Print)	Owner representative's title (Print)			
Owner Representative's Signature	Date (mm/dd/yy)			

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 4837-8SUPTV issued on April 24, 2012.

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 and Climate Change
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) 314-4506 or 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 20th day of October, 2015

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

FL/
c: DWMD Supervisor, MOECC London - District
Rekha Chetlur, Registration and Compliance Section, MOECC Drinking Water Programs Branch – IMBS
Warren Saint, CH2M Hill Canada