

**AMENDED CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS**NUMBER 5537-7FNJRB
Issue Date: July 25, 2008

The Corporation of the Municipality of Grey Highlands
206 Toronto St S
Post Office Box, No. 409
Grey Highlands, Ontario
N0C 1H0

Site Location: Amik Wastewater Treatment Works
Lot 8, 9, Concession 5, Township of Euphrasia
Municipality of Grey Highlands, County of Grey

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

modifications to the existing sewage works for the collection, transmission, treatment and disposal of domestic sewage serving Amik Subdivision and Talisman Mountain Resort having a *Rated Capacity* of 431 m³/d or 157,300 m³/year, consisting of the following:

PROPOSED WORKS

- installation of a raw sewage transfer station consisting of an inground wet well equipped with two (2) submersible sewage pumps (one duty, one standby) rated at 26 L/s at total dynamic head (TDH) of 8.2 m with forcemain discharge piping to lagoon cells No. 1 and No. 2;
- installation of a high liquid level alarm in facultative lagoon Cell No. 1 to prevent overflow;
- modification to the existing treated effluent piping to allow land application by spray irrigation, overland flow and discharge to the wetland areas;
- treated effluent polishing on a total of 27.11 hectares including a spray irrigation area of 11.31 hectares, an overland flow area of 7.7 hectares and a wetland polishing area of 8.1 hectares;
- fencing of the entire sewage treatment facility including lagoons, spray irrigation area and area accepting overland flow and wetland treatment; and

- 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 following documents:

1. Application for Approval of Municipal and Private Sewage Works dated February 20, 2007 (received on May 22, 2007) by Earl Evans, CAO of the Municipality of Grey Highlands under a cover letter of Henderson Paddon & Associates Limited dated May 15, 2007 along with the following reports:
 - (a) "Optimization Study of the Amik Wastewater Treatment Plant" dated March 2000, revised October 2002 prepared by Henderson, Paddon & Associates Limited;
 - (b) "Optimization of the Amik Sewage Works - Residential Units, Work Plan and Cost Estimate" dated September 2005 prepared by Henderson, Paddon & Associates Limited;
 - (c) Design Brief titled "Amik-Talisman Sewage Pumping Station and Optimization of Proposed Sewage Treatment Lagoons" dated May 2007 prepared by Henderson, Paddon & Associates Limited; and
 - (d) A set of drawings prepared by Henderson, Paddon & Associates Limited.
2. Previous Application for Approval of Municipal and Private Sewage Works along with Optimization Study report dated March 2000, revised October 2002, and enclosed plans and Water Quality/Biological Assessment report dated February 2001, prepared by Henderson, Paddon & Associates Limited.
3. Application for Approval of Municipal and Private Sewage Works dated March 31, 2008 (received on April 3, 2008) by Kelly Coulter, CAO/Treasurer of the Municipality of Grey Highlands under a covering letter of Henderson Paddon & Associates Limited dated March 31, 2008.

These proposed works are to be operated with the following previous works in order to provide a Rated Capacity of 431 m³/d or 157,300 m³/year:

EXISTING WORKS

Lagoons

- one (1) 27,000 m³ capacity waste stabilization pond (lagoon cell No. 1) having a surface area of 1.9 ha and an average liquid depth of 1.5 m;
- one (1) 62,000 m³ capacity aerated facultative lagoon (lagoon cell No. 2) having a surface area of 1.7 ha and an average liquid depth of 3.7 m equipped with four (4) 5.6 Kw electric motor driven propeller aspiration type aeration units for use in cell No. 2 and one (1) 5.6 Kw electric motor driven propeller aspirator type aeration unit for use in cell No. 1.

Spray Irrigation

Spray irrigation equipment and related piping, having a capacity of 91,000 m³/year.

Pump Building

A pump building consisting of a sewage transfer pump and a spray irrigation pump.

Miscellaneous

All other controls and sensors, electrical and mechanical equipment, instrumentation, piping, and all associated appurtenances essential for the proper operation of the aforementioned *Works* .

all in accordance with the plans prepared by Ainley and Associates Limited, Consulting Engineers.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

"*Act* " means the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended;

"*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;

"*Average Effluent Application Rate* " means the total volume of effluent applied to a spray irrigation field during a particular spray irrigation season divided by the number of days within that season during which effluent was actually applied to that field;

"*BOD₅* " (also known as TBOD₅) means five day biochemical oxygen demand measured in an unfiltered sample and includes carbonaceous and nitrogenous oxygen demands;

"*By-pass* " means any discharge from the *Works* that does not undergo full treatment before it is discharged to the environment;

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

"*Certificate* " means this entire certificate of approval document, issued in accordance with Section 53 of the *Act*, and includes any schedules;

"*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 any *Ministry* employee appointed by the Minister pursuant to section 5 of the *Act*;

"*District Manager* " means the District Manager of the Barrie District Office of the Ministry;

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

"*Existing Works* " means those portions of the sewage works previously approved and constructed, and existing on-site on the date of issuance of this *Certificate* ;

"*Ministry* " means the Ontario Ministry of the Environment;

"*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;

"*Owner* " means Municipality of Grey Highlands and includes its successors and assignees;

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

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

"*Regional Director* " means the Regional Director of the Southwestern Region of the Ministry;

"*Seasonal Average Concentration* " means the arithmetic mean of the *Monthly Average Concentrations* of a contaminant in the effluent calculated for the given discharge season for any particular calendar year; and

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

You are hereby notified that this 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 *Certificate* 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 *Certificate* , the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this *Certificate* .

- (3) Where there is a conflict between a provision of any submitted document referred to in this *Certificate* and the Conditions of this *Certificate*, the Conditions in this *Certificate* shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.
- (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.
- (5) The requirements of this *Certificate* are severable. If any requirement of this *Certificate*, or the application of any requirement of this *Certificate* to any circumstance, is held invalid or unenforceable, the application of such requirement to other circumstances and the remainder of this *Certificate* shall not be affected thereby.

2. EXPIRY OF APPROVAL

The approval issued by this *Certificate* will cease to apply to those parts of the *Proposed Works* which have not been constructed within five (5) years of the date of this *Certificate*.

3. CHANGE OF OWNER

- (1) The *Owner* shall notify the *District Manager* and the *Director*, in writing, of any of the following changes within 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 *District Manager* ;
 - (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 Informations Act, R.S.O. 1990, c. C39 shall be included in the notification to the *District Manager* ;
- (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 *Certificate*, and a copy of such notice shall be forwarded to the *District Manager* and the *Director*.

4. AS-CONSTRUCTED DRAWINGS

Within one (1) year of the date of commencement of the operation 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* of sewage from any portion of the *Works* is prohibited, except where:
 - (a) it is necessary to avoid loss of life, personal injury, danger to public health or severe property damage;
 - (b) the *District Manager* agrees that it is necessary for the purpose of carrying out essential maintenance and the *District Manager* has given prior written acknowledgment of the *by-pass* ; or
 - (c) the *Regional Director* has given prior written acknowledgment of the *By-pass* .
- (2) The *Owner* shall collect at least one (1) grab sample of the *By-pass* and have it analyzed for the parameters outlined in Condition 7 using the protocols in Condition 9 .
- (3) The *Owner* shall maintain a logbook of all *By-pass* events which shall include, at a minimum, the time, location, duration, quantity of *By-pass* , the authority and/or reason for *By-pass* pursuant to subsection (1), and the reasons for the occurrence.

6. **EFFLUENT OBJECTIVES**

- (1) The *Owner* shall use best efforts to design, construct and operate the *Works* to:
 - (a) maintain the pH of the effluent from the *Works* within the range of 6.0 to 9.0 inclusive, at all times;
 - (b) operate the *Works* within the *Rated Capacity* of the *Works* ;
 - (c) operate the *Works* according to the capacity of the plants and the component process units; and
 - (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 discolouration on the receiving waters.
- (2) The *Owner* shall include in all reports submitted in accordance with Condition 10 a summary of the efforts made and results achieved under this Condition.

7. **EFFLUENT LIMITS**

- (1) The *Owner* shall operate and maintain the *Works* such that the concentrations of the materials named below as effluent parameters are not exceeded in the effluent from the *Works*.

Table 1 - Effluent Limits at the Outlet of Lagoon Cell No. 2	
Effluent Parameter	Seasonal Average Concentration* (milligrams per litre)
Column 1	Column 2
<i>CBOD₅</i>	30
Total Suspended Solids	60
Total Phosphorus	2.0
Total Kjeldahl Nitrogen	6.0

* Between April 01 to October 31, each year.

- (2) For the purposes of determining compliance with and enforcing subsection (1):
- (a) The *Seasonal Average Concentration* of *CBOD₅*, Total Suspended Solids, Total Phosphorus and Total Kjeldahl Nitrogen as named in Column 1 of Table 2 of subsection (1) shall not exceed the corresponding allowable average concentration set out in Column 2 of Table 2 in subsection (1).
 - (b) The pH of the effluent shall be maintained within 6.0 to 9.5, at all times.
- (3) Paragraphs (a) and (b) of subsection (2) shall apply on the date of issuance of this *Certificate*.
- (4) Only those monitoring results collected during the corresponding time period shall be used in calculating the *Seasonal Average Concentration* for this *Certificate*.

8. LAGOONS, EFFLUENT POLISHING, SPRAY IRRIGATION, AND OVERLAND FLOW

- (1) The *Owner* shall ensure that the Lagoons, Effluent Polishing, Spray Irrigation, Overland Flow and Wetland systems are operated such that:
- (a) The *Owner* shall ensure that the raw sewage is stored in the lagoons between November 1 of a year to April 1 of the following year and that the annual average daily flow of sewage into the sewage treatment plant (lagoons) does not exceed 431 m³/d or 157,300 m³/year during any one (1) calendar year;
 - (b) The *Owner* shall ensure that the discharge of treated effluent to the wetland areas for polishing does not exceed a maximum hydraulic loading rate of 521 m³/d during the periods between April 1 to April 30 and from October 1 to October 31 of each year for a total of 31,800 m³/year;
 - (c) During the period between May 1 and September 30, the Owner shall ensure

that the combined discharge of treated effluent by spray irrigation, overland flow and discharge to the wetland areas does not exceed a maximum discharge of 142,800 m³ during that period. Should it be necessary to operate the spray irrigation or overland flow system prior to May 1 or after September 30 of any year, the *Owner* shall obtain a prior written approval for such an extended operation from the *District Manager* on a case-by-case basis.

- (d) During the period between April 1 and October 31, the *Owner* shall ensure that the discharge of treated sewage effluent to the effluent polishing areas does not exceed a maximum discharge of 174,300 m³/year during that period.
- (2) The *Owner* shall ensure that the disposal of treated effluent via spray irrigation, overland flow and wetland polishing, is carried out only on the areas as identified on Drawing No. 197057-02 "Property and Buffer Land Assessment Wastewater Treatment Plant Amik Sewage System dated April 2002 with a latest revision date of October 10, 2002.
- (3) The *Owner* shall ensure that no spray irrigation is to take place:
 - (a) on frozen ground or during the seven (7) month period between October 1 of any calendar year and April 30 of the subsequent year;
 - (b) with the occurrence of rainfall or aerosol drift off the property; and;
 - (c) at an "*Average Effluent Application Rate* " and a maximum hydraulic loading rate of 57,433 cubic meters per year.
- (4) The plant capacity for effluent disposal via spray irrigation should maintain 91,000 m³/year before the proposed upgrade works are constructed.

9. 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 *Certificate* 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 *Certificate* 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* .
- (2) The *Owner* shall prepare an operations manual within six (6) months of the commencement of the operation of the *Proposed 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) 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 *District Manager* ; and
 - (f) procedures for receiving, responding and recording public complaints, including recording any follow-up 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.

10. **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 *Certificate* are to be taken at a time and 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, monthly means once every month.
- (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 2 - Raw Sewage Monitoring (Samples to be collected at the raw sewage pumping station or at manhole 21 before the construction the raw sewage pumping station)		
Parameters	Sample Type	Minimum Frequency
<i>BOD</i> ₅	Grab	Monthly
Total Suspended Solids	Grab	Monthly
Total Kjeldahl Nitrogen	Grab	Monthly
Total Phosphorus	Grab	Monthly

Table 3 - Effluent Monitoring

(Samples to be collected one at the outlet of lagoon cell No. 1 and the other at the outlet or by content sampling on lagoon cell No. 2 during the **effluent disposal season** (April 1 to October 31))

Parameters	Sample Type	Frequency
<i>CBOD₅</i>	Grab	Monthly
Total Suspended Solids	Grab	Monthly
Total Phosphorus	Grab	Monthly
Total Kjeldahl Nitrogen	Grab	Monthly

Table 4 - Surface Water Monitoring

(Samples to be collected at each of the three (3) tributaries of the Beaver River at County Road No. 7 crossing during the **effluent disposal season** (April 1 to October 31))

Parameters	Sample Type	Frequency
<i>CBOD₅</i>	Grab	Monthly
Total Suspended Solids	Grab	Monthly
Total Phosphorus	Grab	Monthly
Total Kjeldahl Nitrogen	Grab	Monthly
Total Ammonia Nitrogen (Ammonia Nitrogen + Ammonium Nitrogen)	Grab	Monthly
Nitrates	Grab	Monthly
Nitrites	Grab	Monthly
pH	Grab/Probe	Monthly
Temperature	Grab/Probe	Monthly

Table 5 - Groundwater Monitoring

(Samples to be collected at the two (2) monitoring wells located at lagoon cell No. 2 during the **effluent disposal season** (April 1 to October 31))

Parameters	Sample Type	Frequency
<i>CBOD₅</i>	Grab	Monthly
Total Phosphorus	Grab	Monthly
Total Kjeldahl Nitrogen	Grab	Monthly
Total Ammonia Nitrogen (Ammonia Nitrogen + Ammonium Nitrogen)	Grab	Monthly
Chloride	Grab	Monthly
Nitrates	Grab	Monthly
Nitrites	Grab	Monthly
<i>E. coli</i>	Grab	Monthly
Total Coliforms	Grab	Monthly
Groundwater Level	Static Level	Monthly

(Note: Definition of a grab sample is included in one or more documents below.)

- (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; and
 - (d) the Environment Canada publications "Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout" (July 1990) and "Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Daphnia magna" (July 1990).
- (5) The measurement frequencies specified in subsection (3) in respect to any parameter are minimum requirements which may, after (12) months of monitoring in accordance with this Condition, be modified by the *District Manager* in writing from time to time.
- (6) Daily quantities of sewage being conveyed to the sewage treatment plant (lagoons) and the lagoon effluent being disposed on the effluent polishing land area by spray irrigation, overland flow and wetland polishing, shall be measured or estimated, and recorded.
- (7) The *Owner* shall retain for a minimum of three (3) years from the date of their creation, all records and information related to or resulting from the monitoring activities required by this *Certificate* .

11. **REPORTING**

- (1) Ten (10) days prior to the date of a planned *By-pass* being conducted pursuant to Condition 4 and as soon as possible for an unplanned *By-pass* , the *Owner* shall notify the *District Manager* (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* .
- (2) The *Owner* shall report to the *District Manager* or designate, any exceedance of any parameter specified in Condition 6 orally, as soon as reasonably possible, and in writing within seven (7) days after receiving analytic results of the exceedance.

- (3) 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, 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 *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) The *Owner* shall, upon request, make all manuals, plans, records, data, procedures and supporting documentation available to *Ministry* staff.
- (5) The *Owner* shall prepare, and submit to the *District Manager* , a performance report, 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;
 - (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) spray irrigation, overland flow and wetland effluent polishing days, hours of operation and sewage volumes tabulated on a monthly basis and comparison with the requirements of Condition No. 8; and

- (j) any other information the *District Manager* requires from time to time.

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 *Certificate* 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 *Certificate* the existence of this *Certificate* .
2. Condition 2 is included to ensure 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.
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 *Certificate* and continue to operate the *Works* in compliance with it.
4. Condition 4 is included to ensure that record drawings of the *Works* “as constructed” are maintained for future references.
5. Condition 5 is included to indicate that by-passes of untreated sewage to receiving water bodies/lands is prohibited, save in certain limited circumstances where the failure to *By-pass* could result in greater injury to the public interest than the *By-pass* itself where a *By-pass* will not violate the approved effluent requirements, or where the *By-pass* 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* 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 receiving water bodies/lands meets the *Ministry* 's effluent quality requirements thus minimizing environmental impact on the receiving water bodies/lands and to protect water quality, fish and other aquatic life in the receiving water body.
8. Condition 8 is included to ensure that the operation of spray irrigation, overland flow and wetland systems is undertaken in such a manner as to minimize any off-property impacts.

9. Condition 9 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*.
10. Condition 10 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 *Certificate* and that the *Works* does not cause any impairment to the receiving water bodies/lands.
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 *Certificate*, so that the *Ministry* can work with the *Owner* in resolving any problems in a timely manner.

This Certificate of Approval revokes and replaces Certificate(s) of Approval No. 0965-74TJJ6 issued on July 25, 2007

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, 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 101 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the 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.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

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, 15th Floor

The Director
Section 53, *Ontario Water Resources Act*
Ministry of the Environment

Toronto, Ontario
M5G 1E5

AND

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) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 25th day of July, 2008



Mansoor Mahmood, P.Eng.
Director
Section 53, *Ontario Water Resources Act*

NH/

c: District Manager, MOE Barrie District Office
Area Supervisor, MOE Owen Sound Area Office
Ross Slaughter, P.Eng., Henderson Paddon & Associates Limited
Water Standards Section, Standards Development Branch, MOE Toronto