

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 5427-BCDLSM

Issue Date: July 4, 2019

Cham Shan Temple
7245 Bayview Ave
Markham, Ontario
L3T 2R6

Site Location: Wutai Shan Buddhist Garden
708 Ski Hill Road
Cavan Monaghan Township, County of Peterborough
K0L 2W0

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:

the establishment of stormwater management Works to serve the Wutai Shan Buddhist Garden, located in the Township of Cavan Monaghan, for the collection, transmission, treatment and disposal of stormwater runoff from a total catchment area of 175.38 hectares, to provide Enhanced Level water quality protection and erosion control, and to attenuate post-development peak flows to pre-development peak flows for all storm events up to and including the 100-year storm event, discharging to Ski Hill Road Side Ditch flowing to a Tributary of Pigeon River (unless otherwise noted below), consisting of the following:

- **oil and grit separator (catchment area 0.45 hectares):** one (1) oil and grit separator, CDS 2015-4 or Equivalent Equipment, located on the northwest corner of parking lot P1 (east of Ski Hill Road), providing Enhanced Level of protection, having a sediment storage capacity of 838 litres, an oil storage capacity of 232 litres, a total storage volume of approximately 1596 litres, and a maximum treatment rate of 19.8 litres per second, receiving inflow from a 250 millimetre inlet pipe, discharging via a 300 millimetre diameter outlet pipe to a vegetative filter strip (noted below) located near the west side of the parking lot;
- **vegetative filter strip (catchment area 0.45 hectares):** located at the outlet of the OGS unit for P1, having a dispersion berm, a total length of 30.0 metres, a minimum bottom width of 3.0 metres, with pea gravel level spreader at 10 metre spacing, allowing a maximum discharge of 88.1 litres per second under the 100-year storm event to flow over the natural environment to the Ski Hill Roadside Ditch;
- **oil and grit separator (catchment area 0.85 hectares):** one (1) oil and grit

separator, CDS 2015-4 or Equivalent Equipment, located on the north side of parking lots P3 and P4 (east side of the site), providing Enhanced Level of protection, having a sediment storage capacity of 838 litres, an oil storage capacity of 232 litres, a total storage volume of approximately 1596 litres, and a maximum treatment rate of 19.8 litres per second, receiving inflow from a 375 millimetre inlet pipe, discharging via a 375 millimetre diameter outlet pipe to a grassed swale and ultimately flows to the Wisdom Pond (noted below);

- **stormwater management facility (catchment area 64.43 hectares):** one (1) wet pond with sediment forebay, known as the North Wisdom Pond, located on the east side of the site, having a permanent storage volume of 44,443 cubic metres, an extended detention volume of 1464 cubic metres, and a total storage volume of 56,506 cubic metres including the permanent pool, at a total depth of 0.31 metres above the permanent pool, receiving inflow from the South Wisdom Pond (includes balancing culvert connecting the two ponds), an outlet structure comprised of a perforated standpipe connected to a reverse sloped 450 millimetre diameter storm outlet pipe discharging to a 1500 millimetre diameter control manhole that outlets via a notched control weir and a 600 millimetre diameter culvert, allowing a maximum discharge of 188 litres per second under the 100-year storm event to a natural wetland located on the north side of the pond, emergency overflow on the east side of the pond that flows around the pond to the natural wetland, dewatering pump inlet hose with fish screen to splash pad at pump outlet and sediment trap and rock flow check dam, discharging to a swale that outlets to the natural wetland;
- **stormwater management facility (catchment area 26.7 hectares):** one (1) clay lined wet pond with sediment forebay, known as the Infiltration Pond, located on the southwest side of the site (southeast of parking lot P1), having a permanent storage volume of 18,833 cubic metres, an extended detention volume of 1,880 cubic metres, and a total storage volume of 19,976 cubic metres including the permanent pool, at a total depth of 2.19 metres, an inlet structure consisting of an overland swale, an outlet structure comprised of a 600 mm diameter perforated hickenbottom pipe surrounded by stone and geotextile connected to a reverse sloped 450 millimetre diameter storm outlet pipe to outflow control manhole (1200 millimetre diameter), equipped with a 280 millimetre diameter orifice to a 450 millimetre diameter storm pipe, allowing a maximum discharge of 138 litres per second under the 100-year storm event to the subsurface infiltration trench (noted below) located adjacent to the pond on the north side, a 1200 millimetre diameter perforated pipe connected to a 300 millimetre diameter pipe connected to a dry hydrant;
- **subsurface infiltration trenches (catchment area 26.7 hectares):** located on the north side of the Infiltration Pond, having a total length of 28.96 metres, a width of 12.55 metres, a base area of 363.4 square metres, a maximum allowable

storage depth of 1.113 metres and a maximum available storage volume of 260.2 cubic metres, comprised 102 units of Cultec recharger V8HD or Equivalent Equipment, consisting of a 150 millimetre deep clear stone layer above and below the proposed Cultec units, surrounded by a non-woven filter fabric;

including erosion/sedimentation control measures during construction and all other controls and appurtenances essential for the proper operation of the aforementioned Works;

all in accordance with the submitted application and supporting documents listed in Schedule A forming part of this Approval.

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

1. "Approval" means this entire document and any schedules attached to it, and the application;
2. "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;
3. "District Manager" means the District Manager of the appropriate local District Office of the Ministry, where the Works are geographically located;
4. "EPA" means the *Environmental Protection Act*, R.S.O. 1990, c.E.19, as amended;
5. "Equivalent Equipment" means a substituted equipment or like-for-like equipment that meets the required quality and performance standards of the approved named equipment;
6. "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;
7. "MNRF" means the Ministry of Natural Resources and Forestry of the government of Ontario and includes all officials, employees or other persons acting on its behalf;
8. "Owner" means Cham Shan Temple, and includes its successors and assignees;
9. "OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40, as amended;
10. "Works" means the sewage Works described in the Owner's application, and this Approval.

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 CONDITIONS

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 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.
6. The issuance of, and compliance with the conditions of, this Approval does not:
 - a. relieve any person of any obligation to comply with any provision of any applicable statute, regulation or other legal requirement, including, but not limited to, the obligation to obtain approval from the local conservation authority/MNRF necessary to construct or operate the sewage works; or
 - b. limit in any way the authority of the Ministry to require certain steps be taken to require the Owner to furnish any further information related to compliance with this Approval.

2. EXPIRY OF APPROVAL

1. 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.
2. In the event that completion and commissioning of any portion of the Works is anticipated to be delayed beyond the specified expiry period, the Owner shall submit an application of extension to the expiry period, at least twelve (12) months prior to the end of the period. The application for extension shall include the reason(s) for the delay, whether there is any design change(s) and a review of whether the standards applicable at the time of Approval of the Works are still applicable at the time of request for extension, to ensure the ongoing protection of the environment.

3. CHANGE OF OWNER

1. The Owner shall notify the District Manager 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 District Manager; or
 - 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 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 Approval, and a copy of such notice shall be forwarded to the District Manager and the Director.
3. The Owner shall ensure that all communications made pursuant to this condition refer to the number at the top of this Approval.

4. OPERATION AND MAINTENANCE

1. If applicable, any proposed storm sewers or other stormwater conveyance in this Approval can be constructed but not operated until the proposed stormwater management facilities in this Approval or any other Approval that are designed to service the storm sewers or other stormwater conveyance are in operation.
2. The Owner shall make all necessary investigations, take all necessary steps and obtain all necessary approvals so as to ensure that the physical

structure, siting and operations of the Works do not constitute a safety or health hazard to the general public.

3. The Owner shall inspect and ensure that the design minimum liquid retention volume is maintained in the Works at all times, except when maintenance is required.
4. The Owner shall undertake an inspection of the condition of the Works, at least once a year, and undertake any necessary cleaning and maintenance to ensure that sediment, debris and excessive decaying vegetation are removed from the Works to prevent the excessive build-up of sediment, oil/grit, debris and/or decaying vegetation, to avoid reduction of the capacity and/or permeability of the Works, as applicable. The Owner shall also regularly inspect and clean out the inlet to and outlet from the Works to ensure that these are not obstructed.
5. The Owner shall construct, operate and maintain the Works with the objective 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, sheen, foam or discoloration on the receiving waters.
6. The Owner shall maintain a logbook to record the results of these inspections and any cleaning and maintenance operations undertaken, and shall keep the logbook at the Owner's administrative office for inspection by the Ministry. The logbook shall include the following:
 - a. the name of the Works; and
 - b. the date and results of each inspection, maintenance and cleaning, including an estimate of the quantity of any materials removed and method of clean-out of the Works.
7. The Owner shall prepare an operations manual prior to the commencement of operation of the Works that includes, but is not necessarily limited to, the following information:
 - a. operating and maintenance 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. contingency plans and procedures for dealing with potential spills and any other abnormal situations and for notifying the District Manager; and

e. procedures for receiving, responding and recording public complaints, including recording any follow-up actions taken.

8. The Owner shall maintain the operations manual current and retain a copy at the Owner's administrative office for the operational life of the Works. Upon request, the Owner shall make the manual available to Ministry staff.

5. TEMPORARY EROSION AND SEDIMENT CONTROL

1. The Owner shall install and maintain temporary sediment and erosion control measures during construction and conduct inspections once every two (2) weeks and after each significant storm event (a significant storm event is defined as a minimum of 25 millimetres of rain in any 24 hours period). The inspections and maintenance of the temporary sediment and erosion control measures shall continue until they are no longer required and at which time they shall be removed and all disturbed areas reinstated properly.
2. The Owner shall maintain records of inspections and maintenance which shall be made available for inspection by the Ministry, upon request. The record shall include the name of the inspector, date of inspection, and the remedial measures, if any, undertaken to maintain the temporary sediment and erosion control measures.

6. REPORTING

1. One (1) week prior to the start-up of the operation of the Works, the Owner shall notify the District Manager (in writing) of the pending start-up date.
2. The Owner shall, upon request, make all reports, manuals, plans, records, data, procedures and supporting documentation available to Ministry staff.
3. The Owner shall prepare a performance report within ninety (90) days following the end of the period being reported upon, and submit the report(s) to the District Manager when requested. The first such report shall cover the first annual period following the commencement of operation of the Works and subsequent reports shall be prepared to cover successive annual periods following thereafter. The reports shall contain, but shall not be limited to, the following information:
 - a. a description of any operating problems encountered and corrective actions taken;
 - b. a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works, including an estimate of the quantity of any materials removed from the Works;
 - c. a summary of any complaints received during the reporting period and

- any steps taken to address the complaints;
- d. a summary of all spill or abnormal discharge events; and
- e. any other information the District Manager requires from time to time.

7. RECORD KEEPING

1. 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 operation, maintenance and monitoring activities required by this Approval.

Schedule A

1. Application for Environmental Compliance Approval, dated January 29, 2018 and received on March 16, 2018, submitted by WSP Canada Inc. on behalf of Cham Shan Temple;
2. Stormwater Management Report, Wutai Shan Buddhist Garden, Township of Cavan Monaghan, dated August 2017, prepared by WSP Canada Inc.;
3. Engineering Drawings, a set of nine for Wutai Shan Buddhist Garden Site Servicing, dated August 23, 2017, and drawings G-1 and G-5, dated June 17, 2019, prepared by WSP Canada Inc.;

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

1. Condition 1 is imposed to ensure that the Works are constructed and operated in the manner in which they were described 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. Condition 1.6 is included to emphasize that the issuance of this Approval does not diminish any other statutory and regulatory obligations to which the Owner is subject in the construction, maintenance and operation of the Works. The Condition specifically highlights the need to obtain any necessary conservation authority approvals. The Condition also emphasizes the fact that this Approval doesn't limit the authority of the Ministry to require further information.
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 Approval and continue to operate the Works in compliance with it.

4. Condition 4 is included as regular inspection and necessary removal of sediment and excessive decaying vegetation from the Works are required to mitigate the impact of sediment, debris and/or decaying vegetation on the treatment capacity of the Works. The Condition also ensures that adequate storage is maintained in the Works at all times as required by the design. Furthermore, this Condition is included to ensure that the Works are operated and maintained to function as designed.
5. Condition 5 is included as installation, regular inspection and maintenance of the temporary sediment and erosion control measures is required to mitigate the impact on the downstream receiving watercourse during construction until they are no longer required.
6. Condition 6 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.
7. Condition 7 is included to require that all records are retained for a sufficient time period to adequately evaluate the long-term operation and maintenance of the Works.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me, the Environmental Review Tribunal and in accordance with Section 47 of the Environmental Bill of Rights, 1993, the Minister of the Environment, Conservation and Parks, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Minister of the Environment, Conservation and Parks will place notice of your appeal on the Environmental Registry. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

- a. 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;
- b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;

5. The name of the Director, and;
6. 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*		The Minister of the Environment, Conservation and Parks		The Director appointed for the purposes of Part II.1 of the Environmental Protection Act
Environmental Review Tribunal				Ministry of the Environment, Conservation
655 Bay Street, Suite 1500	AND	777 Bay Street, 5th Floor	AND	and Parks
Toronto, Ontario		Toronto, Ontario		135 St. Clair Avenue West, 1st Floor
M5G 1E5		M7A 2J3		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) 326-5370 or www.ert.gov.on.ca**

This instrument is subject to Section 38 of the Environmental Bill of Rights, 1993, that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek leave to appeal within 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry at www.ebr.gov.on.ca, you can determine when the leave to appeal period ends.

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

DATED AT TORONTO this 4th day of July,
2019

Aziz Ahmed, P.Eng.
Director
appointed for the purposes of Part
II.1 of the *Environmental Protection
Act*

HW/
c: District Manager, MECP Peterborough
Isabelle Hemmings, WSP Canada Inc.