

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER A-500-1356137620

Version: 1.0

Issue Date: September 26, 2025

Pursuant to section 20.3 of the *Environmental Protection Act*, Revised Statutes of Ontario (R.S.O.) 1990, c. E. 19 and subject to all other applicable Acts or regulations this Environmental Compliance Approval is issued to:

ONTARIO POWER GENERATION INC.

1908 COLONEL SAM

OSHAWA ONTARIO

L1H 8W8

For the following site:

Sir Adam Beck Hydroelectric Generating Complex

- Switchyard and Administrative Parking Lots -

14000 Niagara River Parkway

Niagara-on-the-Lake, ON L0S 1J0

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 servicing two parking lot facilities located at the above site address, for the collection, transmission, treatment and disposal of storm water runoff from a site area of approximately 1.25 hectares, to provide Normal Level water quality protection and erosion control, and to attenuate post-development peak flows to allowable release rates for all storm events up to and including the 100-year storm event, discharging to the OPG Hydro Canal, consisting of the following proposed Works:

Switchyard Parking Lot:

- **Surface Storage and Storm Sewers (catchment area 0.76 hectares):** providing an approximate minimum storage volume of 134.9 cubic metres at a maximum associated ponding depth of 15 centimetres within the parking lot, controlled via six (6) inlet control devices installed within the storm sewer system (Hydrovex units as specified in the supporting documents, or Equivalent Equipment), discharging up to approximately 82.9 liters per second during the 100-year storm event to a diversion structure upstream of the proposed manufactured treatment device described below;

- **Manufactured Treatment Device (catchment area 0.76 hectares):** one (1) oil and grit separator, Imbrium Jellyfish JF6-4-1 (or Equivalent Equipment) located centrally along the northern boundary of the parking lot and installed in an offline-configuration, having a sediment storage capacity of 256 kilograms and an oil storage capacity of 848 litres, a treatment flow rate of approximately 22.7 litres per second, receiving runoff from the storm sewer system described above, discharging to the Hydro Canal via existing 380 millimetre diameter outfall ("Outfall 7");

Administrative Parking Lot:

- **Surface Storage and Storm Sewers (catchment area 0.49 hectares):** providing an approximate minimum storage volume of 57.4 cubic metres at a maximum associated ponding depth of 14 centimetres within the parking lot, controlled via seven (7) inlet control devices installed within the storm sewer system (Hydrovex units as specified in the supporting documents, or Equivalent Equipment), discharging up to approximately 89.6 liters per second during the 100-year storm event towards the four (4) proposed manufactured treatment devices described below;
- **Manufactured Treatment Device (catchment area 0.18 hectares):** one (1) oil and grit separator, Imbrium Stormceptor EFO10 (or Equivalent Equipment) located within the southern boundary of the parking lot, having a sediment storage capacity of 17.79 cubic metres and an oil storage capacity of 1,670 litres, an estimated water quality flow rate of approximately 5.0 litres per second, receiving runoff from the storm sewer system described above, discharging to the Hydro Canal via existing 200 millimetre diameter outfall ("Outfall 1");
- **Manufactured Treatment Device (catchment area 0.14 hectares):** one (1) oil and grit separator, Imbrium Stormceptor EFO8 (or Equivalent Equipment) located along the western boundary of the parking lot, having a sediment storage capacity of 8.78 cubic metres and an oil storage capacity of 1,070 litres, an estimated water quality flow rate of approximately 4.0 litres per second, receiving runoff from the storm sewer system described above, discharging to the Hydro Canal via existing 200 millimetre diameter outfall ("Outfall 2");
- **Manufactured Treatment Device (catchment area 0.10 hectares):** one (1) oil and grit separator, Imbrium Stormceptor EFO8 (or Equivalent Equipment) located along the western boundary of the parking lot, having a sediment storage capacity of 8.78 cubic metres and an oil storage capacity of 1,070 litres, an estimated water quality flow rate of approximately 3.0 litres per second, receiving runoff from the storm sewer system described above, discharging to the Hydro Canal via existing 200 millimetre diameter outfall ("Outfall 3");

- **Manufactured Treatment Device (catchment area 0.08 hectares):** one (1) oil and grit separator, Imbrium Stormceptor EFO6 (or Equivalent Equipment) located within the southern boundary of the parking lot, having a sediment storage capacity of 3.47 cubic metres and an oil storage capacity of 610 litres, an estimated water quality flow rate of approximately 2.0 litres per second, receiving runoff from the storm sewer system described above, discharging to the Hydro Canal via existing 380 millimetre diameter outfall ("Outfall 4");

including erosion/sedimentation control measures and all other appurtenances essential for the proper operation of the aforementioned Works.

all in accordance with supporting documents listed in Schedule 1.

DEFINITIONS

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

1. "Approval" means this entire Environmental Compliance Approval and any Schedules attached to it;
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 alternate piece(s) of equipment that meets the design requirements and performance specifications of the piece(s) of equipment to be substituted;
6. "Licensed Engineering Practitioner" means a person who holds a licence, limited licence or temporary licence under the *Professional Engineers Act*, R.S.O. 1990, c. P.28;
7. "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;
8. "OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40, as amended;
9. "Owner" means Ontario Power Generation Inc. and its successors and assignees;
10. "Proposed Works" means those portions of the Works included in the Approval that are under construction or to be constructed;
11. "Works" means the approved sewage works, and includes Proposed Works.

TERMS AND CONDITIONS

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:

1. GENERAL CONDITION

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 terms and conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
2. The Owner shall design, construct, operate and maintain the Works in accordance with the conditions of this Approval.
3. Where there is a conflict between a provision of any document referred to in this Approval and the conditions of this Approval, the conditions in this Approval shall take precedence.
4. 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 necessary to construct or operate the 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 more than five (5) years, the Owner shall submit an application for extension at least twelve (12) months prior to the end of the five (5) years from the day of issuance of this Approval. The application 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 address of Owner;
 - b. change of Owner, including address of new 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. B.17 shall be included in the notification; or
 - d. change of name of the 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.
2. In the event of any change in ownership of the Works, 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 of this Approval.

4. Construction of Proposed Works

1. Upon the construction of the Works, the Owner shall prepare a statement, certified by a Licensed Engineering Practitioner, 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 construction 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 for the operational life of the Works.

5. OPERATION AND MAINTENANCE

1. 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, health or flooding hazard to the general public.
2. 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.
3. 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.

4. The Owner shall carry out and maintain an inspection and maintenance program on the operation of the manhole oil/grit separator in accordance with the manufacturer's recommendation.
5. The Owner shall ensure that the manhole oil/grit separator remains accessible year-round to facilitate maintenance access and spill response measures.
6. The Owner shall ensure the immediate clean-out of the Works after a fuel or oil spill capture.
7. The Owner shall ensure that equipment and material for the containment, clean-up and disposal of fuel and oil and materials contaminated with such, is on hand and in good repair for immediate use in the event of:
 - a. loss of fuel or oil to the Works; or
 - b. a spill within the meaning of Part X of the EPA.
8. 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 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.
9. The Owner shall maintain an up to date operations manual and make the manual readily accessible for reference at the Works for the operational life of the Works. Upon request, the Owner shall make the manual available to Ministry staff.
10. 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 Works for inspection by the Ministry. The logbook shall include the following:
 - a. the name of the Works;
 - 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; and

c. the date of each spill within the catchment area, including follow-up actions and remedial measures undertaken.

11. 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 and maintenance activities required by this Approval.

6. 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.

7. 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. In addition to the obligations under Part X of the EPA and O. Reg. 675/98 (Classification and Exemption Of Spills and Reporting of Discharges) made under the EPA, the Owner shall, within fifteen (15) days of the occurrence of any reportable spill as provided in Part X of the EPA and O. Reg. 675/98, submit a full written report of the occurrence to the District Manager describing the cause and discovery of the spill, clean-up and recovery measures taken, preventative measures to be taken and a schedule of implementation.
4. The Owner shall prepare performance reports on a calendar year basis by March 31 of the calendar year following the period being reported upon and submit to the District Manager upon request." The reports shall contain, but shall not be limited to, the following information pertaining to the reporting period:
 - 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 effluent quality assurance or control measures undertaken in the reporting period;
 - d. a description of efforts made and results achieved in meeting the effluent objectives of Condition 5.3.
 - e. a summary of any complaints received during the reporting period and any steps taken to address the complaints;
 - f. a summary of all spill or abnormal discharge events; and
 - g. any other information the District Manager requires from time to time.

REASONS

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 1.4 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 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 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.
6. Condition 6 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.
7. Condition 7 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.

APPEAL PROVISIONS

In accordance with Section 139 of the *Environmental Protection Act*, you may by written notice served upon me and the Ontario Land Tribunal, within 15 days after the service of this notice, require a hearing by the Tribunal. You must also provide notice to, the Minister of the Environment, Conservation and Parks in accordance with Section 47 of the *Environmental Bill of Rights*, 1993 who will place notice of your appeal on the Environmental Registry. Section 142 of the *Environmental Protection Act* provides that the notice requiring the hearing ("the Notice") 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.

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:

Registrar*
Ontario Land Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5
OLT.Registrar@ontario.ca

and

The Minister of
the Environment,
Conservation and
Parks
777 Bay Street,
5th Floor
Toronto, Ontario
M7A 2J3

and

The Director appointed for the
purposes of Part II.1 of the
Environmental Protection Act
Ministry of the Environment,
Conservation and Parks
135 St. Clair Avenue West, 1st
Floor
Toronto, Ontario
M4V 1P5

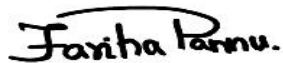
*** Further information on the Ontario Land Tribunal's requirements for an appeal can be**

obtained directly from the Tribunal at: Tel: (416) 212-6349 or 1 (866) 448-2248, or [Ontario Land Tribunal's](#)

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 [Environmental Registry of Ontario](#), 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 26th day of September, 2025



Fariha Pannu

Director

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

c: Heather Brown, ONTARIO POWER GENERATION INC.
Mitchlie Martyr, CIMA+

The following schedules are a part of this environmental compliance approval:

SCHEDULE 1

1. Environmental Compliance Approval Application for Industrial Sewage Works submitted by Ontario Power Generation Inc., dated and received on June 18, 2025, and all supporting documentation and information.
2. Servicing and Stormwater Management Report "14000 Niagara River Parkway" dated April 2025 and revised September 16, 2025 including calculations and engineering drawings, prepared by CIMA+.