

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 0661-BXDRLU
Issue Date: February 23, 2021

American Iron & Metal Company Inc.
75 Steel City Court
Hamilton, Ontario
L8H 3Y2

Site Location: 2555 Sheffield Road
City of Ottawa, Ontario
K1B 3V6

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:

upgraded stormwater conveyance and management Works to service the proposed development of the metal recycling facility at the above noted Site Location, for the collection, transmission, treatment and disposal of stormwater runoff from a total catchment area of 4.01 hectares, to provide Enhanced Level water quality protection and erosion control, and to attenuate post-development peak flows to the maximum allowable release rate of 580.8 litres per second for all storm events up to and including the 100-year storm event, discharging to the municipal storm sewers on Sheffield Road and along the south side of the property, consisting of the following:

- **proposed and existing on-site storm sewers** of 250 to 750 millimetre diameters, conveying on-site stormwater from across the site and discharging to the proposed oil and grit separators as described below, prior to discharging into the municipal storm sewers;
- **proposed surface storage (catchment area: 0.335 hectares):** surface storage above CB 1, located at the proposed north parking area, providing a total available storage volume of approximately 45 cubic metres for the 100-year storm event at a maximum ponding depth of 0.20 metres, controlled by one (1) 165 millimetre diameter inlet control device, allowing a maximum discharge of 76.3 litres per second to on-site storm sewers during the 100-year storm event;
- **proposed surface storage (catchment area: 2.614 hectares):** surface storage above CB 2, CB 3, CB 4, CB 5, CBMH 1, CBMH 2, CBMH 3, CBMH 4, CBMH 5, CBMH 6, EXMH B09 and EXMH B10, located across the rear work yard, providing a total available storage volume of approximately 788 cubic metres for the 100-year storm event at a maximum ponding depth of

0.15 to 0.25 metres, controlled by one (1) 250 millimetre diameter inlet control device, allowing a maximum discharge of 206.8 litres per second to on-site storm sewers during the 100-year storm event;

- **proposed rooftop storage (catchment area 0.523 hectares)**, located at the proposed Building 'A' on the west side of the property, having a maximum available storage volume of 268.1 cubic metres and a maximum ponding depth of 0.15 millimetres, discharging via fourteen (14) roof drains equipped with Watts Adjustable Accutrol Weirs (model RD-100-A-ADJ or Equivalent Equipment), allowing a maximum discharge of 14.82 litres per second during the 100-year storm event to the on-site storm sewer located at STM MH 1;
- **proposed rooftop storage (catchment area 0.051 hectares)**, located at the proposed Building 'B' near the northeast property corner, having a maximum available storage volume of 31.0 cubic metres and a maximum ponding depth of 0.15 millimetres, discharging via two (2) roof drains equipped with Watts Adjustable Accutrol Weirs (model RD-100-A-ADJ or Equivalent Equipment), allowing a maximum discharge of 2.20 litres per second during the 100-year storm event to the on-site storm sewer located at STM MH 3;
- **proposed oil and grit separator (catchment area 0.386 hectares)**: one (1) proposed oil and grit separator, CDS PMSU 2015_4 (or Equivalent Equipment), located downstream of CB 1, providing Enhanced Level of protection, having an oil storage capacity of 232 litres, a sediment storage capacity of 838 litres, a total storage capacity of 1,590 litres and a maximum treatment flow rate of 20 litres per second, receiving inflow from the proposed parking area and Building 'B' rooftop, discharging via a proposed 300 millimetre diameter storm sewer to the municipal storm sewer on Sheffield Road;
- **proposed oil and grit separator (catchment area 2.614 hectares)**: one (1) proposed oil and grit separator, Vortechs 5000 (or Equivalent Equipment), located downstream of EX.STMMH 'A', providing Enhanced Level of protection, having an oil storage capacity of 1,383 litres, a sediment storage capacity of 2,450 litres, a total storage capacity of 7,731 litres and a maximum treatment flow rate of 240.7 litres per second, receiving inflow from the rear yard areas, discharging via a proposed 375 millimetre diameter storm sewer to the municipal storm sewer along the south side of the property;
- **existing swale** along the north property boundary (approximately 200 metres long) and east property boundary (approximately 105 metres long), conveying on-site stormwater from the uncontrolled areas off the Site;
- removal of the existing 115 millimetre inlet control device at EX.STMMH 'A' (formerly CBMH 7) and existing oil and water separator located downstream of EX.STMMH 'A';

including 0.483 hectares of drainage areas in the landscaped front yard (0.262 hectares) and along the perimeter of the property (0.221 hectares) with stormwater runoff discharging uncontrolled off the Site;

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 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. "Owner" means American Iron & Metal Company Inc., and includes its successors and assignees;
8. "OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40, as amended;
9. "Professional Engineer" means a person entitled to practice as a Professional Engineer in the Province of Ontario under a licence issued under the *Professional Engineers Act*; and
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 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 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. 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.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. CONSTRUCTION

1. Upon the construction 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 **six (6) months** of the construction of the Works, a set of as-built drawings showing the works "as constructed" shall be prepared. These drawings shall be kept up to date through revisions undertaken from time to time and a copy shall be retained at the Works for the operational life of the Works.

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 in accordance with the manufacture's recommendations 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 ensure the immediate clean-out of the Works after a fuel or oil spill capture.
5. 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.

6. 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 any abnormal or emergency situations and for notifying the District Manager; and
 - e. procedures for receiving, responding and recording public complaints, including recording any follow-up actions taken.
7. 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.
8. 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 (including the quantity and frequency of slop oil disposal from the oil/grit separators, and a copy of the disposal manifest); and
 - c. the date of each spill within the catchment area, including follow-up actions and remedial measures undertaken.
9. 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. EFFLUENT LIMITS

1. The Owner shall design, construct and operate the Works such that the concentrations of the materials listed as effluent parameters in the effluent limits table in **Schedule B** are not exceeded in the effluent from the Works.
2. For the purposes of determining compliance with and enforcing subsection 1:
 - a. with respect to a Concentration Limit is deemed to have occurred when any single grab sample analyzed for a parameter named in Column 1 of the Effluent Limits Table listed in Schedule B is greater than the corresponding maximum concentration set out in Column 2 of the Effluent Limits Table listed in **Schedule B**;
 - b. with respect to pH is deemed to have occurred when any single measurement is outside of the indicated range.
2. Notwithstanding any other condition of this Approval, the Owner shall 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 on the receiving waters.

8. EFFLUENT MONITORING

1. The Owner shall, upon commencement of operation of the sewage works, carry out a monitoring program, and 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. Samples shall be collected and analyzed at the following sampling point(s), at the sampling frequencies and using the sample type specified for each parameter listed in the effluent monitoring table in **Schedule B**.
3. The methods and protocols for sampling, analysis, toxicity testing, and recording shall conform, in order of precedence, to the methods and protocols specified in the following:
 - a. the Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal

Wastewater Version 2.0" (January 2016), PIBS 2724e02, as amended;

- b. the publication "Standard Methods for the Examination of Water and Wastewater", as amended.
4. The Owner shall supplement this monitoring program with visual inspections which shall include the following:
 - a. Daily inspection of the effluent from the oil/grit separators during discharge of treated water for any visible oil sheen, foaming or floating debris; and
 - b. Quarterly inspection of the contents of the oil/grit separators for the accumulation of oil products and sediment.
 5. The measurement parameters, frequencies and locations specified in the effluent monitoring table in **Schedule B** are minimum requirements which may, after **48 months** of monitoring in accordance with this condition, be modified by the Director in writing from time to time after consulting the District Manager upon reviewing annual monitoring and performance reports.
 6. 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.

9. SPILL CONTINGENCY PLAN

1. Within six (6) months from the issuance of this Approval, the Owner shall implement a spill contingency plan - that is a set of procedures describing how to mitigate the impacts of a spill within the area serviced by the Works. The Owner shall, upon request, make this plan available to Ministry staff. This plan shall include as a minimum:
 - a. the name, job title and location (address) of the Owner, person in charge, management or person(s) in control of the facility;
 - b. the name, job title and 24-hour telephone number of the person(s) responsible for activating the spill contingency plan;
 - c. a site plan drawn to scale showing the facility, nearby buildings, streets, catch-basins and manholes, drainage patterns (including direction(s) of flow in storm sewers), any receiving body(ies) of water that could potentially be significantly impacted by a spill and any features which need to be taken into account in terms of potential impacts on access and response (including physical obstructions and location of response and clean-up equipment);
 - d. steps to be taken to report, contain, clean up and dispose of contaminants following a

spill;

- e. a listing of telephone numbers for: local clean-up company(ies) who may be called upon to assist in responding to spills; local emergency responders including health institution(s); and Ministry Spills Action Centre 1-800-268-6060;
 - f. Safety Data Sheets (SDS) for each hazardous material which may be transported or stored within the area serviced by the Works;
 - g. the means (internal corporate procedures) by which the spill contingency plan is activated;
 - h. a description of the spill response training provided to employees assigned to work in the area serviced by the Works, the date(s) on which the training was provided and by whom;
 - i. an inventory of response and clean-up equipment available to implement the spill contingency plan, location and, date of maintenance/replacement if warranted; and
 - j. the date on which the contingency plan was prepared and subsequently, amended.
2. The spill contingency plan shall be kept in a conspicuous, readily accessible location on-site.
 3. The spill contingency plan shall be amended from time to time as required by changes in the operation of the facility.

10. 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 report to the District Manager orally as soon as possible any non-compliance with the compliance limits, and in writing within seven (7) days of non-compliance.
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", 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 schedule of implementation.
4. The Owner shall, upon request, make all reports, manuals, plans, records, data, procedures and supporting documentation available to Ministry staff.
5. The Owner shall prepare and submit a performance report to the District Manager 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 prepared 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, including an estimate of the quantity of any materials removed from the Works;
- d. a summary of the calibration and maintenance carried out on all effluent monitoring equipment;
- e. a summary of any effluent quality assurance or control measures undertaken in the reporting period;
- f. a summary of any complaints received during the reporting period and any steps taken to address the complaints;
- g. a summary of all spill or abnormal discharge events; and
- h. any other information the District Manager requires from time to time.

11. EFFLUENT REQUIREMENT (FUTURE)

1. Based on the monitoring results specified in Paragraph 2 of Condition 8, the Director may impose additional effluent limits in the future for the effluent from the Works. The Owner shall have to submit a proposal for approval of a treatment system to meet the limits being imposed in the future.

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 imposed to ensure that the effluent discharged from the Works meets the Ministry's effluent quality requirements, as specified, on a continuous basis, thus minimizing environmental impact on the receiver.
8. Condition 8 is included to require the Owner to demonstrate on a continual basis that the quality and quantity of the effluent from the approved works is consistent with the design and effluent objectives specified in the Approval and that the approved works does not cause any impairment to the receiving watercourse.

9. Condition 9 is included to ensure that the Owner will implement the Spill Contingency Plan, such that the environment is protected and deterioration, loss, injury or damage to any person(s) or property is prevented.
10. Condition 10 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.
11. Condition 11 is included to make the Owner aware that the Director may impose additional effluent limits for the discharge from the Works and, if required, the Owner shall have to submit a proposal for a treatment system to comply with the imposed limits.

Schedule A

1. Environmental Compliance Approval Application for Industrial Sewage Works submitted by DST Consulting Engineers Inc., dated July 3, 2020 and received on July 6, 2020, and signed by Letenemeni Konate, Ing. of American Iron & Metal Company Inc., and all supporting documentation and information.

Schedule B

Effluent Limits Table

(measured at the discharge outlet from the oil/grit separators)

Effluent Parameter	Concentration Limit (milligrams per litre unless otherwise indicated)
Column 1	Column 2
Oil & Grease	15
pH	between 6.0 - 9.5 inclusive, at all times

Effluent Monitoring Table

(collected at the discharge outlet from the oil/grit separators)

Frequency	At least once during each calendar quarter when there is discharge
Sample Type	Grab
Parameters	Oil & Grease pH Phenols (4-AAP) Total Suspended Solids Dissolved Organic Carbon Total Metals Petroleum Hydrocarbons (F1 to F4) Benzene, Toluene, Ethylbenzene, Xylene (BTEX)

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 5461-AMAKBG issued on May 24, 2017.

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.

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:

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*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

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 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 <https://ero.ontario.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 23rd day of February, 2021



Fariha Pannu, P.Eng.

Director

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

SW/

c: District Manager, MECP Ottawa District Office
Ali Williams, DST Consulting Engineers Inc.