

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER A110119
Issue Date: July 20, 2023

Stelco Inc.
2330 Regional Road #3 Rd Nanticoke
Haldimand, Ontario
N0A 1L0

Site Location: Stelco Inc. Lake Erie Works, Quarry Landfill
2330 Regional Road #3 Nanticoke
Haldimand County,
N0A 1L0

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:

use and operation of a 5.5 hectare waste disposal site (landfill) within the abandoned quarry (Area VI), and including partial excavation (mining) of waste.

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

"Approval" or "ECA" means this Environmental Compliance Approval and any Schedules to it, including the application and supporting documentation listed in Schedule "A".

"Director" means any Ministry employee appointed in writing by the Minister pursuant to section 5 of the EPA as a Director for the purposes of Part V of the EPA;

"District Manager " means the District Manager of the local district office of the Ministry in which the Site is geographically located;

"EPA" means Environmental Protection Act, R.S.O. 1990, c. E. 19, as amended;

"Ministry" means the Ontario Ministry of the Environment, Conservation and Parks;

"NMA" means the Nutrient Management Act, 2002, S.O 2002, c. 4, as amended;

"Operator" has the same meaning as "operator as defined in s. 25 of the EPA;

"Owner" means Stelco Inc., its successors and assignees;

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

"PA" means the Pesticides Act, R.S.O. 1990, c. P-11, as amended;

"Provincial Officer" means any person designated in writing by the Minister as a provincial officer pursuant to section 5 of the OWRA or section 5 of the EPA or section 17 of PA;

"PWQO" means the Ministry's Provincial Water Quality Objectives as amended;

"Regional Director" means the Regional Director of the local Regional Office of the Ministry in which the Site is located;

"Regulation 347" means Ontario Regulation 347, R.R.O. 1990 as amended;

"RUP" means the Ministry's Reasonable Use Policy (Guideline B-7) as amended from time to time;

"SDWA" means the Safe Drinking Water Act, 2002, S.O. 2002, c. 32, as amended;

"Site" means the entire 5.5 hectare landfilling site, Stelco Inc. Lake Erie Works, Quarry Landfill, located at 2330 Regional Road #3 Nanticoke, Haldimand County, and legally described as: Part Lot No. 24, Concession 1, City of Nanticoke, former Township of Woodhouse, and designated as Part 1, plan of survey 37R-2787.

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

TERMS AND CONDITIONS

1.0 General

Compliance

- 1.1 The Owner and Operator shall ensure compliance with all the conditions of this Approval and shall ensure that any person authorized to carry out work on or operate any aspect of the Site is notified of this Approval and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
- 1.2 Any person authorized to carry out work on or operate any aspect of the Site shall comply with the conditions of this Approval.

In Accordance

- 1.3 Except as otherwise provided by this Approval, the Site shall be designed, developed, built, operated and maintained in accordance with the documentation listed in the attached Schedule "A".

Interpretation

- 1.4 Where there is a conflict between a provision of any document listed in Schedule "A" in this Approval, and the conditions of this Approval, the conditions in this Approval shall take precedence.
- 1.5 Where there is a conflict between the application and a provision in any document listed in Schedule "A", the application shall take precedence, unless it is clear that the purpose of the document was to amend the application and that the Ministry approved the amendment.
- 1.6 Where there is a conflict between any two documents listed in Schedule "A", the document bearing the most recent date shall take precedence.
- 1.7 The conditions of this Approval are severable. If any condition of this Approval, or the application of any condition 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.

Other Legal Obligations

- 1.8 The issuance of, and compliance with, 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; or
 - (b) limit in any way the authority of the Ministry to require certain steps be taken or to require the Owner and Operator to furnish any further information related to compliance with this Approval.

Adverse Effect

- 1.9 The Owner and Operator shall take steps to minimize and ameliorate any adverse effect on the natural environment or impairment of water quality resulting from the Site, including such accelerated or additional monitoring as may be necessary to determine the nature and extent of the effect or impairment.
- 1.10 Despite an Owner, Operator or any other person fulfilling any obligations imposed by this Approval the person remains responsible for any contravention of any other condition of this Approval or any applicable statute, regulation, or other legal requirement resulting from any act or omission that caused the adverse effect to the natural environment or impairment of water quality.

Change of Ownership

- 1.11 The Owner shall notify the Director, in writing, and forward a copy of the notification to the District Manager, within 30 days of the occurrence of any changes in the following information:
 - (a) the ownership of the Site;
 - (b) the Operator of the Site;
 - (c) the address of the Owner or Operator; and
 - (d) the partners, where the Owner or Operator 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.
- 1.12 No portion of this Site shall be transferred or encumbered prior to or after closing of the Site unless the Director is notified in advance and sufficient financial assurance is deposited with the Ministry to ensure that these conditions will be carried out.

- 1.13 In the event of any change in Ownership of the Site, other than change to a successor Owner, the Owner shall notify the successor of and provide the successor with a copy of this Approval, and the Owner shall provide a copy of the notification to the District Manager and the Director.

Certificate of Requirement/Registration on Title

- 1.14 If not previously completed, the Owner shall:
- (a) Within sixty (60) days of the date of the issuance of this Approval, submit to the Director for review, two copies of a completed Certificate of Requirement with a registerable description of the Site; and
 - (b) Within 10 calendar days of receiving the Certificate of Requirement authorized by the Director, register the Certificate of Requirement in the appropriate Land Registry Office on title to the Site and submit to the Director and the District Manager the duplicate registered copy immediately following registration.
- 1.15 Pursuant to Section 197 of the Environmental Protection Act, neither the Owner nor any person having an interest in the Site shall deal with the Site in any way without first giving a copy of this Approval to each person acquiring an interest in the Site as a result of the dealing.

Inspections by the Ministry

- 1.16 No person shall hinder or obstruct a Provincial Officer from carrying out any and all inspections authorized by the OWRA, the EPA, the PA, the SDWA or the NMA, of any place to which this Approval relates, and without limiting the foregoing:
- (a) to enter upon the premises where the approved works are located, or the location where the records required by the conditions of this Approval are kept;
 - (b) to have access to, inspect, and copy any records required to be kept by the conditions of this Approval;
 - (c) to inspect the Site, related equipment and appurtenances;
 - (d) to inspect the practices, procedures, or operations required by the conditions of this Approval; and
 - (e) to sample and monitor for the purposes of assessing compliance with the terms and conditions of this Approval or the EPA, the OWRA, the PA, the SDWA or the NMA.

Information and Record Retention

- 1.17 Any information requested, by the Ministry, concerning the Site and its operation under this Approval, including but not limited to any records required to be kept by this Approval shall be provided to the Ministry, upon request, in a timely manner. Records shall be retained for contaminating life span of the Site except for as otherwise authorized in writing by the Director.
- 1.18 The receipt of any information by the Ministry or the failure of the Ministry to prosecute any person or to require any person to take any action, under this Approval or under any statute, regulation or other legal requirement, in relation to the information, shall not be construed as:
- (a) an approval, waiver, or justification by the Ministry of any act or omission of any person that contravenes any term or condition of this Approval or any statute, regulation or other legal requirement; or
 - (b) acceptance by the Ministry of the information's completeness or accuracy.

- 1.19 The Owner shall ensure that a copy of this Approval, in its entirety and including all its Notices of Amendment, and documentation listed in Schedule "A", are retained at the Site at all times.

2.0 Construction

Major Works

The leachate collection system, liner and perimeter berms are considered Major Works for this Approval:

- 2.1 A final detailed design shall be prepared for each Major Work to be constructed at the Site consistent with the conceptual design of the Site as presented in the Supporting Documentation, specifically item 8 of Schedule "A".
- 2.2 The final detailed design of Major Works shall include the following:
- a. design drawings and specifications;
 - b. a detailed quality assurance / quality control (QA/QC) program for construction of the major work, and
 - c. details on the monitoring, maintenance, repair and replacement of the engineered components of the major work, if any.
- 2.3 The final detailed design of each Major Work have been submitted and approved by the Director and are outlined in Items 12 and 13 of the supporting documentation listed in Schedule "A".
- 2.4 Any design optimization or modification that is inconsistent with the conceptual design shall be clearly identified, along with an explanation of the reasons for the change.
- 2.5 Each major work shall be constructed in accordance with the final detailed design and the QA/QC procedures shall be implemented as proposed by the Owner. Any significant variances from the conceptual design for the Site shall be subject to approval by the Director.
- 2.6 As-built drawings for all Major Works shall be retained on Site and made available to Ministry staff for inspection.

Geotechnical Engineer

- 2.7 A qualified professional geotechnical engineer shall inspect the excavation and construction activities at the Site, geomembrane and geosynthetic clay liner installation, including the base and side slopes, and provide a report addressing whether the construction proceeded in accordance with approved detailed design plans, specifications and QA/QC procedures. The report shall be submitted to the District Manager and the Director.

3.0 Operations

General Landfill Operation

- 3.1 The Site shall be operated and maintained at all time including management and disposal of all waste in accordance with the EPA, Regulation 347, and the conditions of this Approval. At no time shall the discharge of a contaminant that causes or is likely to cause an adverse effect be permitted.

Service Area

- 3.2 The service area of this Site is limited to the Stelco Inc. Lake Erie Works site and the Stelco Inc. Hamilton Works site.

Site Operating Hours

- 3.3 The Site may receive waste for disposal, or excavate waste at any time provided a Site supervisor trained in accordance with Condition 3.5 is present to supervise the disposal activities.

Site Supervisor

- 3.4 No waste shall be accepted, landfilled or removed from the Site unless a Site supervisor is present and supervises the operation.

Training of Site Supervisor

- 3.5 The Owner shall ensure that the Site supervisor has been adequately trained with respect to the following without limitation:
- (i) the conditions and schedules of this ECA;
 - (ii) the operation and maintenance of the Site;
 - (iii) relevant waste management regulations and legislation;
 - (iv) environmental concerns related to the waste being handled at the Site; and
 - (v) occupational health and safety concerns pertaining to the waste being handled at the Site.

Signage

- 3.6 A sign shall be installed and maintained at the main entrance/exit to the Site, on which is legibly displayed the following information:
- (i) the name of the Site and Owner;
 - (ii) the allowable waste types; and
 - (iii) an authorizing contact number for unloading material.

Approved Waste Types

- 3.7 Only solid, non-hazardous industrial waste limited to blast furnace iron and steel-making slags, sludges and fines, refractory brick and rubble, and waste raw blast furnace materials shall be accepted for disposal at the Site.

Capacity

- 3.8 The Site shall not exceed a final volumetric capacity of 1,339,500 cubic metres. The final capacity includes:
- any wastes that are not excavated;
 - any new wastes disposed of in the landfill;
 - any daily or interim cover material but does not include final cover material; and
 - the limited vertical expansion, as documented in item 18 of Schedule “A”.

Annual Fill Rate

- 3.9 No more than 420,000 tonnes of waste and any daily or intermediate cover, shall be deposited in the landfill footprint each year.

Waste Placement

- 3.10 No waste shall be landfilled outside of the 5.5 hectare landfill Site as shown in Figure 2 of the Design and Operations Plan, item 8 of Schedule “A”.
- 3.11 No waste shall be landfilled below the **base grades** as shown in Figure 10 of the Design and Operations Plan, item 8 of Schedule “A”.
- 3.12 No waste shall be landfilled at any time above the **final grades** as shown in Figure 4 of the Design and Operations Plan Addendum, Appendix E within item 18 of Schedule “A”.

Leachate Collection System

- 3.13 The Owner shall ensure that:
- (i) The leachate collection system piping for the landfill shall be inspected and cleaned if required at least once per year;
 - (ii) The leachate forcemain from the landfill to the wastewater treatment system shall be cleaned at least once per year;
 - (iii) The submersible collection pump shall be removed, inspected and cleaned at least once per year.
 - (iv) Additional inspections and cleaning of the submersible collection pump shall occur if there are evidence of:
 - Excessive fouling due to solids build up;
 - A significant decrease in the pumping rate;
 - A significant change in the amperage draw of the motor; and/or
 - Inaccurate level reading from level sensor.
 - (v) A spare submersible collection pump in working condition shall be maintained at the facility.
 - (vi) Leachate generated from the Site shall be conveyed to the Stelco Inc. Lake Erie Works effluent treatment plant.

Vermin, etc.

- 3.14 The Site shall be operated and maintained such that dust, litter, odour, noise and traffic do not create a nuisance outside of the Stelco Inc. Lake Erie Works site.

Cover

- 3.15 The Owner shall place intermediate cover where landfilling has been temporarily discontinued for six months or more.

Final Closure

- 3.16 Upon reaching the final capacity of the Site as detailed in condition 3.8 of this Approval, the Site shall be capped and covered in accordance with Item 8 of Schedule "A".

4.0 Site Inspections and Log Book

- 4.1 An inspection of the entire Site and all equipment on the Site shall be conducted annually, at a minimum, to ensure that: the Site is secure; that the operation of the Site is not causing any nuisances; that the operation of the Site is not causing any adverse effects on the environment and that the site is being operated in compliance with this Approval. Any deficiencies discovered as a result of the inspection shall be remedied immediately, including temporarily ceasing operations at the Site if needed .
- 4.2 A log shall be maintained in written format and shall include the following information:
- (i) the area of the Site in which waste disposal operations are taking place;
 - (ii) any instances of refusal of waste shipments, the reason(s) for refusal, and the origin of the waste, if known;
 - (iii) the total quantity of waste received at the Site during each operating day and each operating week;
the total quantity of waste excavated at the Site during each operating day and each operating week;
 - (iv) the amount of any leachate removed, or treated and discharged from the Site;
 - (v) a description of any out-of-service period of any control, treatment, disposal or monitoring facilities, the reasons for the loss of service, and action taken to restore and maintain service; and
 - (vi) a record of the inspection required under this condition of this Approval including:
 - (a) signature of person that conducted the inspection;
 - (b) the date and time of the inspection;
 - (c) the list of any deficiencies discovered;
 - (d) recommendations for remedial action; and
 - (e) the date, time and description of actions taken.
- 4.3 Any information requested, by the Director or a Provincial Officer, concerning the Site and its operation under this Approval, including but not limited to any records required to be kept by this Approval shall be provided to the Ministry, upon request.

5.0 Complaints Response Procedure

- 5.1 Should the Owner receive complaints regarding the operation of the Site, the Owner shall respond to these complaints in accordance with the existing Stelco Inc. complaints response procedure. However, the complaint shall also be logged separately and reported to the District Manager in accordance with the following sub-conditions:
- (a) The Owner shall record each complaint and shall include in that record the nature of the complaint, the name, address and the telephone number of the complainant and the time and date of the complaint;
 - (b) The Owner, upon notification of the complaint shall initiate appropriate steps to determine all possible causes of the complaint, proceed to take the necessary actions to eliminate the cause of the complaint; and
 - (c) The Owner shall retain on-site a report written within one (1) week of the complaint date, listing the actions taken to resolve the complaint and any recommendations for remedial measures, a record of the written or verbal response to the complainant, and managerial or operational changes to reasonably avoid the re-occurrence of similar incidents.

6.0 Financial Assurance

- 6.1 Within thirty (30) days of issuance of this notice the Owner shall submit to the Director, Financial Assurance, as defined in Section 131 of the Act, for the amount of **\$4,842,970 CDN**. This Financial Assurance shall be in a form acceptable to the Director and shall provide sufficient funds for the closure, contingency, post-closure monitoring, operation and maintenance of the Site;
- 6.2 Commencing on July 31, 2028 and at intervals of five (5) years thereafter, the Owner shall submit to the Director, a re-evaluation of the amount of Financial Assurance to implement the actions required under Condition 6.1. The re-evaluation shall include an assessment based on any new information relating to the environmental conditions of the Site and shall include the costs of additional monitoring and/or implementation of contingency plans required by the Director upon review of the closure plan and annual reports. The Financial Assurance must be submitted to the Director within twenty (20) days of written acceptance of the re-evaluation by the Director;
- 6.3 The amount of Financial Assurance is subject to review at any time by the Director and may be amended at his/her discretion. If any Financial Assurance is scheduled to expire or notice is received, indicating Financial Assurance will not be renewed, and satisfactory methods have not been made to replace the Financial assurance at least sixty (60) days before the Financial Assurance terminates, the Financial Assurance shall forthwith be replaced by cash.

7.0 Environmental Monitoring and Reporting

- 7.1 The Site monitoring programs shall be carried out for groundwater, surface water and leachate in accordance with Schedule "B".
- 7.2 The Owner shall ensure that the Site monitoring program includes an additional two monitors, installed below the liner, in the downgradient direction, for the purpose of detecting possible leakage from the cell.

7.3 No alterations to the site monitoring programs shall be implemented without prior written agreement from the District Manager, or written approval from the Director.

8.0 Trigger Mechanism and Contingency Plan

8.1 The Owner shall implement the site trigger mechanism plan as follows:

- (i) The trigger levels as described in Schedule "C" shall be applied to the quarry pond MW50 and SW-1 monitoring locations.
- (ii) If the trigger levels are exceeded for any parameter in Schedule "C" on two consecutive monitoring events, confirmatory samples will be collected from both the Quarry Pond (MW50) and SW-1 and analysed within three weeks of the second monitoring event. The confirmatory sample shall include analysis of a duplicate sample. If the exceedance is confirmed, an assessment of the possible source of the impacts will be undertaken by the Owner over the following three month period.
- (iii) If the impact is determined to be related to the landfill, and can be mitigated by maintenance work then the Owner shall ensure that the work is initiated immediately.
- (iv) If required, the Owner shall implement one or more of the following contingency measures within two years of confirmation of the trigger level being exceeded;
 - (a) installation of a geomembrane final cover;
 - (b) hydraulic control of the water level in Quarry Pond

The Owner shall discuss options and implementation of these measures with the District Manager, and obtain prior Approval from the Director.

9.0 Annual Report

9.1 A written report on the development, operation and monitoring of the Site, shall be completed annually (the "Annual Report"). The Annual Report shall be submitted to the District Manager by no later than **April 30** of each year.

9.2 The Annual Report shall include the following:

- (i) the results and an interpretive analysis of the results of all leachate, groundwater and surface water monitoring, including an assessment of the need to amend the monitoring programs, compliance with the Ministry's RUP (Guideline B-7) and delineation of leachate impacts and plumes;
- (ii) an assessment of the operation and performance of all engineered facilities, the need to amend the design or operation of the Site, and the adequacy of and need to implement the contingency plans;
- (iii) site plans showing the existing contours of the Site; areas of landfilling operation during the

- reporting period; areas of intended operation during the next reporting period; areas of excavation during the reporting period; the progress of final cover, vegetative cover, and any intermediate cover application; previously existing Site facilities; facilities installed during the reporting period; and site preparations and facilities planned for installation during the next reporting period;
- (iv) calculations of the volume of waste, daily and intermediate cover, and final cover deposited or placed at the Site during the reporting period and a calculation of the total volume of Site capacity used during the reporting period;
 - (v) a calculation of the remaining capacity of the Site and an estimate of the remaining Site life;
 - (vi) If relevant, the adequacy of the Site's contaminant attenuation zone and the potential need to expand or reconfigure the zone;
 - (vii) a summary of the weekly, maximum daily and total annual quantity (tonnes and cubic metres) of waste received at the Site;
 - (viii) a summary of the weekly, maximum daily and total annual quantity (tonnes and cubic metres) of waste excavated from the Site, and the destination locations;
 - (ix) a summary of any complaints received and the responses made;
 - (x) a discussion of any operational problems encountered at the Site and corrective action taken;
 - (xi) any changes to the Approval that have been approved by the Director since the last Annual Report;
 - (xii) a report on the status of all monitoring wells and a statement as to compliance with Ontario Regulation 903;
 - (xiii) a ground water plume cross-section, where data is suitable for this determination; and
 - (xiv) any other information with respect to the Site which the District Manager may require from time to time.
 - (xv) a description of the results from the inspections and cleaning of the following leachate systems:
 - leachate collection system piping;
 - leachate forcemain from the landfill to the wastewater treatment system; and
 - the submersible collection pump.

If any of the inspections or cleaning results with a recommendation to increase the frequency of the respective inspections and/or cleaning, then the Director shall be notified within thirty (30) days of the report being prepared and a request to amend the ECA to this frequency shall be submitted within ninety (90) days of the report being prepared.

10.0 Closure Plan

- 10.1 At least 6 months prior to the anticipated date of closure of this Landfill at the Site, the Owner shall submit to the Director for approval, with copies to the District Manager, a detailed Site closure plan pertaining to the termination of landfilling operations at this Site, post-closure inspection, maintenance and monitoring, and end use. The plan shall include but not be limited to the following information:
- (a) a plan showing Site appearance after closure;
 - (b) a description of the proposed end use of the Site;
 - (c) a description of the procedures for closure of the Site, including:
 - (i) completion, inspection and maintenance of the final cover and landscaping;
 - (ii) Site security;

- (iii) removal of unnecessary landfill-related structures, buildings and facilities;
- (iv) final construction of any control, treatment, disposal and monitoring facilities for leachate, groundwater, and surface water; and
- (v) a schedule indicating the time-period for implementing sub-conditions (i) to (vi) above;
- (d) descriptions of the procedures for post-closure care of the Site, including:
 - (i) operation, inspection and maintenance of the control, treatment, disposal and monitoring facilities for leachate, groundwater, and surface water;
 - (ii) record keeping and reporting; and
 - (iii) complaint contact and response procedures;
- (e) an assessment of the adequacy of and need to implement the contingency plans for leachate; and
- (f) an updated estimate of the contaminating life span of the Site, based on the results of the monitoring programs to date.

10.1 This Landfill at the Site shall be closed in accordance with the closure plan as approved by the Director.

Schedule "A"

1. Application for a Certificate of Approval for a Waste Disposal Site (Landfill), dated April 4, 1983, as amended by the letter dated August 15, 1984, from Mr. B. Fletcher, Engineering Manager, Stelco Inc. to J. Vogt, District Officer, Industrial Abatement Section, Ministry of the Environment.
2. "Site Reclamation Using By-Product Fill Material, Lake Erie Works, Site Location No. VI (Quarry)" by IEC Beak, dated May 10, 1984.
3. "Site Reclamation Using Engineered Fill Material, Lake Erie Works, Site Location No. VI," by IEC Beak, dated April, 1983.
4. "Leachate Migration Study, Lake Erie Works, Storage Area Extensions, " by IEC Beak, dated February 4, 1982.
5. "Leachate Migration Study, Lake Erie Development." by International Environmental Consultants Ltd., dated June, 1979.
6. The letters dated July 25, 1984 and August 3, 1984 from H. Eisler, Manager, Environmental Control, Stelco Inc. to J. Vogt, District Officer, Industrial Abatement Section, Ministry of the Environment.
7. Application for a Certificate of Approval for a Waste Disposal Site, signed by A. Scott Milne, and dated 13th of October, 2010.
8. Design and Operations Plan, Existing Quarry Landfill, US Steel Canada Inc., Lake Erie Works, dated September 2010, by Golder Associates.
9. Letter dated November 29, 2010, from Frank Barone, Golder Associates, to Mr. Julius Arscott, Ministry of the Environment, with supplemental information and including: Attachment A, Article of Incorporation, Attachment B, Financial Assurance Estimate, Attachment C, Abstract for EBR Posting, Attachment D, Neighbour Notification Letter.
10. Letter dated February 9, 2012, from Frank Barone, Golder Associates, to Lynda Mulcahy, Ministry of the Environment, with responses to review comments.
11. Letter dated November 1, 2012 addressed to Director, Environmental Assessment and Approvals Branch from Mr. John Benson, U.S. Steel Canada requesting amendment to the definition of Site. The supporting documentation included the following:
 - i. Environmental Compliance Approval Application signed by Mr. John Benson, U.S. Steel Canada dated October 30, 2012
 - ii. Email dated October 17, 2012 to Mr. Joe Speranzini from Ms. Lucie Guichelaar, Ministry of the Environment.
12. Document entitled "Construction Specifications, US Steel Canada Ltd. Quarry Landfill, Nanticoke, Ontario" dated January 2013 and prepared by Golder Associates Ltd.
13. Construction Drawings entitled "US Steel Canada Inc. - Lake Erie Works, Quarry Landfill Re-Construction, Nanticoke, Ontario. Drawings 1 through 10" dated June 17, 2013 and prepared by Golder Associates Ltd.
14. Letter regarding submersible pump maintenance from Chris Riddle, EPG Companies Inc. to John

MacDonald, dated August 24, 2016.

15. Application for a Certificate of Approval for a Waste Disposal Site, signed by Mark DeMelo, and dated March 31, 2020.
16. Document entitled "Financial Assurance Plan Update, Quarry Landfill Site, Lake Erie Works Facility, Nanticoke, Ontario" dated March 26, 2020 and prepared by Golder Associates Ltd.
17. Application for a Certificate of Approval for a Waste Disposal Site, signed by Petar Kolundzija, and dated October 19, 2020.
 - i. Memorandum dated July 3, 2020 from Husein Awad, Hydrogeologist, Ministry of the Environment, Conservation and Parks to Taylor Buck Senior Environmental Officer. Subject: Stelco Inc. Quarry LFS, Nanticoke - Request to Remove VWP2 from monitoring program.
 - ii. Document entitled "Vibrating Wire Piezometer Evaluation, Stelco Inc. - Quarry Landfill, Nanticoke, ON" dated February 12, 2020 and prepared by RWDI Air Inc.
18. Stelco Lake Erie Works Quarry Landfill Limited Vertical Expansion, Golder Associates Ltd. July 28, 2022.
 - i. Appendix A: Environmental Compliance Approval Application, signed by Petar Kolundzija, dated July 28, 2022.
 - ii. Appendix B: MECP Pre-consultation
 - iii. Appendix C: Scaled Area Location Plan(s) with Geo-Referencing Points Identified
 - iv. Appendix D: Zoning Map
 - vi. Appendix E: Design and Operations Plan Addendum
 - vii. Appendix F: Copy of Notification to Adjacent Landowners
19. Document entitled "Financial Assurance Plan Update for Limited Vertical Expansion, Stelco Quarry Landfill, Nanticoke, Ontario" dated July 2023 and prepared by WSP Canada Inc.

Schedule "B"

Site Groundwater and Surfacewater Monitoring Programs

Sampling Locations - Groundwater	Sampling Frequency	Parameters
39R-I, 39R-II, 39R-III, 40-III, 41-I, 41-II, 41-III, 44-I, 44-II, 46-I, 46-II,	annual	alkalinity, dissolved organic carbon, total dissolved solids, ammonia-N, chemical oxygen demand, phenols, total cyanide, free cyanide, chloride, fluoride, sulphate, nitrate-N, aluminum, antimony, arsenic, barium, beryllium, bismuth, boron, cadmium, chromium, cobalt, iron, lead, magnesium, nickel, manganese, mercury, molybdenum, potassium, selenium, silver, sodium, strontium, thallium, tin, titanium, uranium, vanadium, zinc. field parameters: pH, temperature, conductivity
	annual	water levels
Leachate		
leachate sump	winter, spring, summer, fall	head, (parameters same as groundwater)
landfill - vibrating wire piezometer (VWP1)	winter, spring, summer, fall	head, temperature
landfill - additional 2 monitoring locations beneath liner	annual	(parameters same as groundwater)
Sampling Locations - Surfacewater		
SW-1, SW-3	monthly	(parameters same as groundwater) field parameters: pH, temperature, conductivity, flow rate
quarry pond standpipe MW 50	monthly	(parameters same as groundwater) field parameters: pH, temperature, conductivity

Schedule "C"
Site Trigger Levels

Trigger Parameter	Trigger Level for Quarry Pond @MW50	Trigger Level for Centre Creek @ SW-1
pH	8.5	8.5
Aluminum (dissolved)	0.2 mg/L	0.05 mg/L
Zinc	0.4 mg/L	0.4 mg/L
Ammonia-N	2.0 mg/L	2.0 mg/L
Note: All trigger concentrations are for un-filtered samples except for aluminum.		

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

The reason for Conditions 1.1, 1.2, 1.4 to 1.8, 1.9, 1.10 is to clarify the legal rights and responsibilities of the Owner and Operator under this Approval.

The reasons for Conditions 1.3, 2.1 to 2.7, 3.1 is to ensure that the Site is designed, constructed, operated, monitored and maintained in accordance with the application and supporting documentation submitted by the Owner, and not in a manner which the Director has not been asked to consider.

The reasons for Conditions 1.11 are to ensure that the Site is operated under the corporate name which appears on the application form submitted for this Approval and to ensure that the Director is informed of any changes.

The reasons for Conditions 1.12 and 1.13 are to restrict potential transfer or encumbrance of the Site without the approval of the Director and to ensure that any transfer of encumbrance can be made only on the basis that it will not endanger compliance with this Approval.

The reason for Condition 1.16 is to ensure that appropriate Ministry staff have ready access to the Site for inspection of facilities, equipment, practices and operations required by the conditions in this Approval. This condition is supplementary to the powers of entry afforded a Provincial Officer pursuant to the EPA and OWRA.

The reasons for Conditions 1.14 and 1.15 are to ensure that, pursuant to subsection 197(1) of the EPA, any persons having an interest in the Site are made aware that the land has been approved and used for the purposes of waste disposal.

The reasons for Conditions 1.17 and 1.18 and 1.19 is to ensure that records for the Site are created and maintained, and that the Ministry has access to this information.

The reason for Conditions 3.2, 3.7, 3.8, 3.9 to 3.12 is to specify the approved areas from which waste may be accepted at the Site and the types and amounts of waste that may be accepted for disposal at the Site, based on the Owner's application and supporting documentation.

The reason for Condition 3.6 is to ensure that users of the Site are fully aware of important information and restrictions related to Site operations and access under this Approval.

The reasons for Condition 3.1, 3.14, 3.15 and 3.16 are to ensure that the Site is operated, inspected and maintained in an environmentally acceptable manner and does not result in a hazard or nuisance to the natural environment or any person.

The reasons for Condition 3.3 are to specify the hours of operation for the landfill Site.

The reasons for Conditions 3.4 and 3.5 are to ensure that the Site is supervised by properly trained staff in a manner which does not result in a hazard or nuisance to the natural environment or any person and to ensure the controlled access and integrity of the Site by preventing unauthorized access when the Site is closed and no site attendant is on duty.

Condition 3.13 is included to ensure that the leachate collection system is maintained, and to specify how leachate from the Site will be managed.

The reason for Conditions 4.1 to 4.3 is to ensure that accurate waste records are maintained to ensure compliance with the conditions in this Approval, the EPA and its regulations.

The reason for Condition 5.1 is to ensure that any complaints regarding operations at this Site are responded to in a timely and efficient manner.

The reason for Conditions 6.1 to 6.4 is to ensure that sufficient funds are available to the Ministry to clean up the Site in the event that the Company and/or any future owners are unable or unwilling to do so.

The reasons for Conditions 7.1 to 7.3 is to demonstrate that the landfill site is performing as designed and the impacts on the natural environment are acceptable. Regular monitoring allows for the analysis of trends over time and ensures that there is an early warning of potential problems so that any necessary remedial/contingency action can be taken.

The reason for Condition 8.1 is to ensure that the Owner follows a plan with an organized set of procedures for identifying and responding to unexpected but possible problems at the Site. A remedial action / contingency plan is necessary to ensure protection of the natural environment.

The reasons for Conditions 9.1 and 9.2 are to ensure that regular review of site development, operations and monitoring data is documented and any possible improvements to site design, operations or monitoring programs are identified. An annual report is an important tool used in reviewing Site activities and for determining the effectiveness of site design.

The reasons for Condition 10 are to ensure that final closure of the Site is completed in an aesthetically pleasing manner, in accordance with Ministry standards, and to ensure the long-term protection of the health and safety of the public and the environment.

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). A110119 issued on March 12, 2021

In accordance with Section 139 of the *Environmental Protection Act*, you may by written notice served upon me, the Ontario Land 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 ("the Notice") 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:

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 www.olt.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 20th day of July, 2023



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

CM/
c: District Manager, MECP Hamilton - District
Trish Edmond P. Eng., Golder Associates Ltd.