

APPENDIX 'B'

Appendix B consists of separate sets of standards for the nine different classes. Each set, containing only those standards applicable to a single category of site, i.e. standards for class I0, I40, etc.

DEFINITION OF MUNICIPAL WASTE

MUNICIPAL WASTE: Consists of the following, but does not include hazardous waste:

- i) domestic waste;
- ii) commercial, non hazardous solid industrial and other waste similar in composition to domestic waste;
- iii) liquid waste that contains no putrescible materials or soluble or decomposable chemical substances; and
- iv) waste from the operation of a sewage works subject to the Ontario Water Resources Act where the works,
 - A. is owned by a municipality,
 - B. is owned by the Crown subject to an agreement with the municipality under the Ontario Water Resources Act, or
 - C. receives only waste similar in character to the domestic sewage from a household,
- v) waste from the operation of a water works subject to the Ontario Water Resources Act,
- vi) liquid waste that is produced in any month in an amount less than twenty-five litres or otherwise accumulated in an amount less than twenty-five litres, O. Reg. 464/85, ss.1(4),
- vii) waste that results directly from food processing and preparation operations, including food packing, food preserving, wine making, cheese making and restaurants,
- viii) drilling fluids and produced waters associated with the exploration, development or production of crude oil or natural gas,
- ix) processed organic waste, or
- x) asbestos waste;
- xi) ash resulting from the incineration of domestic waste or other waste of a similar nature,

- xii) waste that is a hazardous industrial waste, hazardous waste chemical, ignitable waste, corrosive waste, leachate toxic waste or reactive waste and that is produced in any month in an amount less than five kilograms or otherwise accumulated in an amount less than five kilograms,
- xiii) waste that is an acute hazardous waste chemical and that is produced in any month in an amount less than one kilogram or otherwise accumulated in an amount less than one kilogram,
- xiv) an empty container or the liner from an empty container that contained hazardous industrial waste, hazardous waste chemical, ignitable waste, corrosive waste, leachate toxic waste or reactive waste,
- xv) an empty container of less than twenty litres capacity or one or more liners weighing, in total, less than ten kilograms from empty containers, that contained acute hazardous waste chemical,
- xvi) the residues or contaminated materials from the clean-up of a spill of less than five kilograms of waste that is a hazardous industrial waste, hazardous waste chemical, ignitable waste, corrosive waste, leachate toxic waste or reactive waste, or
- xvii) the residues or contaminated materials from the clean-up of a spill of less than one kilogram of waste that is an acute hazardous waste chemical;
- xviii) radio isotope waste disposal of in a landfilling sites in accordance with the written instruction of the Atomic Energy Control Board (A.E.C.B.);
- xix) non-hazardous solid industrial waste producing leachate containing any contaminants listed in Schedule 4 at a concentration less than one hundred times that specified in the Schedule when tested using the Leachate Extraction Procedures or an equivalent test method approved by the Director.

in any combination or proportion, but does not include hazardous waste.

DEFINITION/A

STANDARDS FOR IO SITES

The following standards apply to ISOLATED sites (separation distance greater than 3 kilometres) with an approved lifetime capacity from 0 to less than 40,000 cubic metres:

01 Survey

011 A reference point on the waste disposal site outside the fill area shall be defined by an Ontario Land Surveyor and marked with a permanent marker.

Site Code: All classes.
Timing Code: Preparation.

012 A survey prepared by an Ontario Land Surveyor shall indicate the reference point, the boundaries of the waste disposal site and the fill area and the area underlain by the contaminant attenuation zone if any.

Site Code: All classes except sites on unpatented Crown land.
Timing Code: Preparation.

02 Registration on Title

021 A copy of the certificate of approval or provisional certificate of approval shall be registered on the title to the waste disposal site and the area underlain by the contaminant attenuation zone, if any, in the appropriate Land Registry Office.

Site Code: All classes except sites on unpatented Crown land.
Timing Code: Disposal.

03 Development Plans

031 A site development plan shall be prepared and kept up to date and adhered to and shall address the proposed development of the site, including:

- a) contact person
- b) methods of operation
- c) sequence of utilization of areas of site for filling
- d) scheduling
- e) maintenance and housekeeping programs
- f) equipment, including safety, first aid and fire control equipment
- g) site plan
- h) on-site roads
- i) contingency plans
- j) surface drainage and site contours
- k) final cover, cover materials, and vegetation
- l) leachate control measures
- m) gas control measures
- n) monitoring programs
- o) closure program
- p) end use

Site Code: All Classes.

Timing Code: Approval and Operations.

04 Fencing and gates

041 Except at intended access points, unauthorized access to the fill area shall be discouraged by suitable fencing, such as is customarily used on farms, or suitable natural barriers.

Site Code: I0, I40, R0, R40, U0.

Timing Code: Disposal and Operations.

044 Lagoons, pits and similar hazards on the waste disposal site shall be fenced as a safety precaution.

Site Code: All Classes.

Timing Code: Disposal and Operations.

05 Site Preparation Report

- 051 Appropriate preparation and development of the site or portion of the site shall be carried out in accordance with the approved site development plan and a written statement shall be prepared and submitted to the Director summarizing the work that has been done and describing any departures from the approved site development plan.

Site Code: All classes.
Timing Code: Disposal.

06 Peripheral Area (Buffer)

- 061 The fill area shall be surrounded by a peripheral area at least 30 metres wide.

Site Code: All classes.
Timing Code: Approval and Operations.

07 On-Site Roads

- 071 Access to the fill area shall be by road.

Site Code: All classes.
Timing Code: Disposal and Operations.

- 072 All on-site roads shall be capable of handling vehicles hauling waste to and from the site under normal weather conditions.

Site Code: All classes.
Timing Code: Disposal and Operations.

- 073 All on-site roads shall be at least three metres wide, appropriately surfaced and, if utilized in December, January, February or March, shall have at least a one metre shoulder for snow removal.

Site Code: All classes.
Timing Code: Disposal and Operations.

074 On-site roads shall have suitable provision for passing and turning where appropriate.

Site Code: All classes.

Timing Code: Disposal and Operations.

08 Signs

081 There shall be, at every entrance to the waste disposal site where vehicles carrying waste may enter, a sign providing at least the following information:

- a) the names of the owner and operator;
- b) the hours of operation;
- c) a warning that only municipal waste is acceptable at the site;
- d) the class of site; and
- e) the certificate of approval or provisional certificate of approval number.

Site Code: All classes.

Timing Code: Disposal and Operations.

09 Screening

091 Required screening shall consist of vegetation or other natural features to the extent reasonably possible.

Site Code: All classes.

Timing Code: Disposal and Operations.

092 The site shall be screened from the view of persons on public roads.

Site Code: All classes.

Timing Code: Disposal and Operations.

10 Housekeeping

101 Site cleanup shall be carried out at least in the spring and fall.

Site Code: I0, I40.
Timing Code: Operations.

102 Site cleanup and related housekeeping measures shall be carried out in accordance with the site development plan.

Site Code: All classes.
Timing Code: Operations.

11 Contingency Plan

111 A contingency plan shall be prepared and kept up to date which describes backup measures to be implemented in the event of the failure of the site or elements of the design of the site to meet planned and approved environmental criteria.

Site Code: All classes.
Timing Code: Approval and Operations.

12 Hydrogeology and Hydrology

121 A hydrogeological and hydrological evaluation of the site and its functioning as a landfill shall be prepared.

Site Code: All classes.
Timing Code: Approval and Operations.

13 Surface Drainage and site contours

131 At all times the contours of the site and the provision of works to control surface drainage

shall together minimize disturbance to the surrounding drainage pattern.

Site Code: All classes.

Timing Code: Approval and Operations.

- 132 Contaminated surface drainage shall be collected and appropriately treated.

Site Code: All classes.

Timing Code: Operations.

- 133 Steps shall be taken so that the quality of the surface water on and adjacent to the site is not impaired as a result of waste at or in the site or as a result of site operations.

Site Code: All classes.

Timing Code: Operations.

14 Cell Cover

- 141 Waste shall be deposited in an orderly manner in the fill area and shall be compacted before cover material is applied.

Site Code: All classes.

Timing Code: Operations.

- 142 Cover material shall be applied in a layer at least 15 centimetres thick.

Site Code: All classes.

Timing Code: Operations.

- 143 Cover material shall be applied over newly deposited waste at least once a month, except during December, January, February and March.

Site Code: I0.

Timing Code: Operations.

15 Burning of waste

151 The controlled burning of segregated brush and clean wood wastes is permitted under constant supervision on a cleared area of the site where there is a minimum fire break of at least 30 metres in all directions from the site of the burning .

Site Code: I0, I40, I200, R0, R40, R200.
Timing Code: Operations.

152 The burning of waste except as specified in paragraph 151 is not permitted.

Site Code: I0, I40, I200, R0, R40, R200.
Timing Code: Operations.

16 Final Cover

161 Whenever any part of a fill area has reached its capacity a final cover of cover material shall be applied and compacted.

Site Code: All classes.
Timing Code: Operations.

162 The compacted cover material shall be at least 0.75 metres thick.

Site Code: All classes.
Timing Code: Operations.

163 Vegetation shall be appropriately chosen and sufficiently well established on the final cover that it regenerates annually.

Site Code: All classes.
Timing Code: Operations.

17 Leachate Control

171 Leachate migrating from the landfill and from the contaminant attenuation zone, if any, shall have no more than a trivial adverse effect on adjacent groundwater.

Site Code: All classes.
Timing code: Approval and Operations.

172 Compliance with paragraph 171 shall be attained by means of careful site development and operation and the natural characteristics of the site and the surrounding lands.

Site Code: I0, R0, U0.
Timing code: Approval and Operations.

18 Gas Control

181 Gases generated by the decomposition of waste and migrating through the ground shall be confined to the landfill.

Site Code: All classes.
Timing code: Approval and Operations.

182 Compliance with paragraph 181 shall be attained by means of careful site development and operation and the natural characteristics of the site and the surrounding lands.

Site Code: I0, R0, U0.
Timing code: Approval and Operations.

19 Supervision

191 The site shall be inspected weekly at all times that the site is accepting waste to ensure that it is being operated properly and in accordance with

all applicable requirements and a written record of the results of each such inspection shall be made and retained by the owner or operator for two years.

Site Code: I0, R0.
Timing Code: Operations.

20 Vectors and Rodents

201 A contingency plan shall be prepared and kept current and shall be implemented when necessary to control rodents or other vectors.

Site Code: I0, I40, R0.
Timing code: Approval and Operations.

21 Monitoring

211 A program of monitoring bodies of water, watercourses, and wells, on or near the landfill shall be instituted and continued.

Site Code: I0.
Timing code: Approval and Operations.

22 Status Report

221 A status report statement summarizing implementation of the site development plan, any variance from the site development plan, complaints received, monitoring results and interpretation thereof, changes in separation distance, anticipated changes in operation and management, remaining site capacity and expected site life, shall be prepared and submitted to the Director on or before the last day of March in every second year and respecting, in so far as past occurrences go, the preceding two calendar

years, the first of such reports to be submitted in the second calendar year after this standard becomes applicable.

Site Code: I0, I40.
Timing Code: Operations.

23 Financial Guarantees

231 Financial guarantees as proposed in the application for certificate of approval and approved or as required by conditions of approval, shall be provided and maintained in accordance with the application, approval or conditions including any alterations which may be provided for or subsequently made.

Site Code: All classes of sites not owned by the Crown or a Crown agency.
Timing Code: Disposal and Operations.

STANDARDS FOR I40 SITES

The following standards apply to ISOLATED sites (separation distance greater than 3 kilometres) with an approved lifetime capacity from 40,000 cubic metres to 200,000 cubic metres:

01 Survey

011 A reference point on the waste disposal site outside the fill area shall be defined by an Ontario Land Surveyor and marked with a permanent marker.

Site Code: All classes.
Timing Code: Preparation.

012 A survey prepared by an Ontario Land Surveyor shall indicate the reference point, the boundaries of the waste disposal site and the fill area and the area underlain by the contaminant attenuation zone if any.

Site Code: All classes except sites on unpatented Crown land.
Timing Code: Preparation.

02 Registration on Title

021 A copy of the certificate of approval or provisional certificate of approval shall be registered on the title to the waste disposal site and the area underlain by the contaminant attenuation zone, if any, in the appropriate Land Registry Office.

Site Code: All classes except sites on unpatented Crown land.
Timing Code: Disposal.

03 Development Plans

031 A site development plan shall be prepared and kept up to date and adhered to and shall address the proposed development of the site, including:

- a) contact person
- b) methods of operation
- c) sequence of utilization of areas of site for filling
- d) scheduling
- e) maintenance and housekeeping programs
- f) equipment, including safety, first aid and fire control equipment
- g) site plan
- h) on-site roads
- i) contingency plans
- j) surface drainage and site contours
- k) final cover, cover materials, and vegetation
- l) leachate control measures
- m) gas control measures
- n) monitoring programs
- o) closure program
- p) end use

Site Code: All Classes.

Timing Code: Approval and Operations.

04 Fencing and gates

041 Except at intended access points, unauthorized access to the fill area shall be discouraged by suitable fencing, such as is customarily used on farms, or suitable natural barriers.

Site Code: I0, I40, R0, R40, U0.

Timing Code: Disposal and Operations.

043 A gate shall be provided for every access point to the fill area and it shall be locked whenever a supervisor is not present on the site.

Site Code: I40, I200, R40, R200, U40, U200.

Timing Code: Disposal and Operations.

044 Lagoons, pits and similar hazards on the waste disposal site shall be fenced as a safety precaution.

Site Code: All Classes.
Timing Code: Disposal and Operations.

05 Site Preparation Report

051 Appropriate preparation and development of the site or portion of the site shall be carried out in accordance with the approved site development plan and a written statement shall be prepared and submitted to the Director summarizing the work that has been done and describing any departures from the approved site development plan.

Site Code: All classes.
Timing Code: Disposal.

06 Peripheral Area (Bugsby)

061 The fill area shall be surrounded by a peripheral area at least 30 metres wide.

Site Code: All classes.
Timing Code: Approval and Operations.

07 On-Site Roads

071 Access to the fill area shall be by road.

Site Code: All classes.
Timing Code: Disposal and Operations.

072 All on-site roads shall be capable of handling vehicles hauling waste to and from the site under normal weather conditions.

Site Code: All classes.
Timing Code: Disposal and Operations.

073 All on-site roads shall be at least three metres wide, appropriately surfaced and, if utilized in December, January, February or March, shall have at least a one metre shoulder for snow removal.

Site Code: All classes.
Timing Code: Disposal and Operations.

074 On-site roads shall have suitable provision for passing and turning where appropriate.

Site Code: All classes.
Timing Code: Disposal and Operations.

08 Signs

081 There shall be, at every entrance to the waste disposal site where vehicles carrying waste may enter, a sign providing at least the following information:

- a) the names of the owner and operator;
- b) the hours of operation;
- c) a warning that only municipal waste is acceptable at the site;
- d) the class of site; and
- e) the certificate of approval or provisional certificate of approval number.

Site Code: All classes.
Timing Code: Disposal and Operations.

082 There shall be, at every entrance to the site where vehicles carrying waste may enter and adjacent to the fill area, a sign indicating where help may be reached in the event of fire or accident at the site.

Site Code: I40, R0, R40, U0.
Timing Code: Disposal and Operations.

09 Screening

091 Required screening shall consist of vegetation or other natural features to the extent reasonably possible.

Site Code: All classes.
Timing Code: Disposal and Operations.

092 The site shall be screened from the view of persons on public roads.

Site Code: All classes.
Timing Code: Disposal and Operations.

10 Housekeeping

101 Site cleanup shall be carried out at least in the spring and fall.

Site Code: I0, I40.
Timing Code: Operations.

102 Site cleanup and related housekeeping measures shall be carried out in accordance with the site development plan.

Site Code: All classes.
Timing Code: Operations.

11 Contingency Plan

111 A contingency plan shall be prepared and kept up to date which describes backup measures to be implemented in the event of the failure of the site or elements of the design of the site to meet planned and approved environmental criteria.

Site Code: All classes.
Timing Code: Approval and Operations.

12 Hydrogeology and Hydrology

- 121 A hydrogeological and hydrological evaluation of the site and its functioning as a landfill shall be prepared.

Site Code: All classes.
Timing Code: Approval and Operations.

13 Surface Drainage and site contours

- 131 At all times the contours of the site and the provision of works to control surface drainage shall together minimize disturbance to the surrounding drainage pattern.

Site Code: All classes.
Timing Code: Approval and Operations.

- 132 Contaminated surface drainage shall be collected and appropriately treated.

Site Code: All classes.
Timing Code: Operations.

- 133 Steps shall be taken so that the quality of the surface water on and adjacent to the site is not impaired as a result of waste at or in the site or as a result of site operations.

Site Code: All classes.
Timing Code: Operations

14 Cell Cover

- 141 Waste shall be deposited in an orderly manner in the fill area and shall be compacted before cover material is applied.

Site Code: All classes.
Timing Code: Operations.

142 Cover material shall be applied in a layer at least 15 centimetres thick.

Site Code: All classes.
Timing Code: Operations.

146 Cover material shall be applied over newly deposited waste at the end of each day that the site is open.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

15 Burning of waste

151 The controlled burning of segregated brush and clean wood wastes is permitted under constant supervision on a cleared area of the site where there is a minimum fire break of at least 30 metres in all directions from the site of the burning .

Site Code: I0, I40, I200, R0, R40, R200.
Timing Code: Operations.

152 The burning of waste except as specified in paragraph 151 is not permitted.

Site Code: I0, I40, I200, R0, R40, R200.
Timing Code: Operations.

16 Final Cover

161 Whenever any part of a fill area has reached its capacity a final cover of cover material shall be applied and compacted.

Site Code: All classes.
Timing Code: Operations.

162 The compacted cover material shall be at least 0.75 metres thick.

Site Code: All classes.
Timing Code: Operations.

163 Vegetation shall be appropriately chosen and sufficiently well established on the final cover that it regenerates annually.

Site Code: All classes.
Timing Code: Operations.

17 Leachate Control

171 Leachate migrating from the landfill and from the contaminant attenuation zone, if any, shall have no more than a trivial adverse effect on adjacent groundwater.

Site Code: All classes.
Timing code: Approval and Operations.

173 Compliance with paragraph 171 may be accomplished with the assistance of engineered facilities provided appropriate provision is made for their perpetual maintenance and operation.

Site Code: I40, I200, R40, R200, U40, U200.
Timing code: Approval and Operations.

18 Gas Control

181 Gases generated by the decomposition of waste and migrating through the ground shall be confined to the landfill.

Site Code: All classes.
Timing code: Approval and Operations.

- 183 Compliance with paragraph 181 may be accomplished with the assistance of engineered facilities provided appropriate provision is made for their perpetual maintenance and operation.

Site Code: I40, I200, R40, R200, U40, U200.
Timing code: Approval and Operations.

19 Supervision

- 193 A supervisor shall be present at the site at all times that the site is open for the acceptance of waste.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

- 194 The supervisor shall make regular written entries in a log book recording the progress of site development and utilization, whether this accords with the site development plan, and any particulars of site operations which are out of the ordinary including complaints received, resulting actions taken and responses provided.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

- 195 Log books shall be retained by the owner or operator for two years after they are filled.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

20 Vectors and Rodents

- 201 A contingency plan shall be prepared and kept current and shall be implemented when necessary to control rodents or other vectors.

Site Code: I0, I40, R0.
Timing code: Approval and Operations.

21 Monitoring

- 212 A predictive monitoring program shall be designed and kept current and carried out in order to test the understanding of the hydrogeologic regime and the effects of landfilling in that setting.

Site Code: I40, I200, R0, R40, R200, U0, U40,
U200.

Timing code: Approval and Operations.

22 Status Report

- 221 A status report statement summarizing implementation of the site development plan, any variance from the site development plan, complaints received, monitoring results and interpretation thereof, changes in separation distance, anticipated changes in operation and management, remaining site capacity and expected site life, shall be prepared and submitted to the Director on or before the last day of March in every second year and respecting, in so far as past occurrences go, the preceding two calendar years, the first of such reports to be submitted in the second calendar year after this standard becomes applicable.

Site Code: I0, I40.

Timing Code: Operations.

23 Financial Guarantees

- 231 Financial guarantees as proposed in the application for certificate of approval and approved or as required by conditions of approval, shall be provided and maintained in accordance with the application, approval or conditions including any alterations which may be provided for or subsequently made.

Site Code: All classes of sites not owned by the Crown or a Crown agency.

Timing Code: Disposal and Operations.

STANDARDS FOR I200 SITES

The following standards apply to ISOLATED sites (separation distance greater than 3 kilometres) with an approved lifetime capacity greater than 200,000 cubic metres:

01 Survey

- 011 A reference point on the waste disposal site outside the fill area shall be defined by an Ontario Land Surveyor and marked with a permanent marker.

Site Code: All classes.
Timing Code: Preparation.

- 012 A survey prepared by an Ontario Land Surveyor shall indicate the reference point, the boundaries of the waste disposal site and the fill area and the area underlain by the contaminant attenuation zone if any.

Site Code: All classes except sites on unpatented Crown land.
Timing Code: Preparation.

02 Registration on Title

- 021 A copy of the certificate of approval or provisional certificate of approval shall be registered on the title to the waste disposal site and the area underlain by the contaminant attenuation zone, if any, in the appropriate Land Registry Office.

Site Code: All classes except sites on unpatented
Crown land.

Timing Code: Disposal.

03 Development Plans

031 A site development plan shall be prepared and kept up to date and adhered to and shall address the proposed development of the site, including:

- a) contact person
- b) methods of operation
- c) sequence of utilization of areas of site for filling
- d) scheduling
- e) maintenance and housekeeping programs
- f) equipment, including safety, first aid and fire control equipment
- g) site plan
- h) on-site roads
- i) contingency plans
- j) surface drainage and site contours
- k) final cover, cover materials, and vegetation
- l) leachate control measures
- m) gas control measures
- n) monitoring programs
- o) closure program
- p) end use

Site Code: All Classes.

Timing Code: Approval and Operations.

04 Fencing and gates

042 Except at intended access points, unauthorized access to the fill area shall be discouraged by suitable fencing, such as chain link fence.

Site Code: I200, R200, U40, U200.

Timing Code: Disposal and Operations.

- 043 A gate shall be provided for every access point to the fill area and it shall be locked whenever a supervisor is not present on the site.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Disposal and Operations.

- 044 Lagoons, pits and similar hazards on the waste disposal site shall be fenced as a safety precaution.

Site Code: All Classes.
Timing Code: Disposal and Operations.

05 Site Preparation Report

- 051 Appropriate preparation and development of the site or portion of the site shall be carried out in accordance with the approved site development plan and a written statement shall be prepared and submitted to the Director summarizing the work that has been done and describing any departures from the approved site development plan.

Site Code: All classes.
Timing Code: Disposal.

06 Peripheral Area (A. 19.1)

- 061 The fill area shall be surrounded by a peripheral area at least 30 metres wide.

Site Code: All classes.
Timing Code: Approval and Operations.

07 On-Site Roads

- 071 Access to the fill area shall be by road.

Site Code: All classes.

Timing Code: Disposal and Operations.

072 All on-site roads shall be capable of handling vehicles hauling waste to and from the site under normal weather conditions.

Site Code: All classes.

Timing Code: Disposal and Operations.

073 All on-site roads shall be at least three metres wide, appropriately surfaced and, if utilized in December, January, February or March, shall have at least a one metre shoulder for snow removal.

Site Code: All classes.

Timing Code: Disposal and Operations.

074 On-site roads shall have suitable provision for passing and turning where appropriate.

Site Code: All classes.

Timing Code: Disposal and Operations.

08 Signs

081 There shall be, at every entrance to the waste disposal site where vehicles carrying waste may enter, a sign providing at least the following information:

- a) the names of the owner and operator;
- b) the hours of operation;
- c) a warning that only municipal waste is acceptable at the site;
- d) the class of site; and
- e) the certificate of approval or provisional certificate of approval number.

Site Code: All classes.

Timing Code: Disposal and Operations.

09 Screening

091 Required screening shall consist of vegetation or other natural features to the extent reasonably possible.

Site Code: All classes.
Timing Code: Disposal and Operations.

092 The site shall be screened from the view of persons on public roads.

Site Code: All classes.
Timing Code: Disposal and Operations.

10 Housekeeping

102 Site cleanup and related housekeeping measures shall be carried out in accordance with the site development plan.

Site Code: All classes.
Timing Code: Operations.

11 Contingency Plan

111 A contingency plan shall be prepared and kept up to date which describes backup measures to be implemented in the event of the failure of the site or elements of the design of the site to meet planned and approved environmental criteria.

Site Code: All classes.
Timing Code: Approval and Operations.

12 Hydrogeology and Hydrology

121 A hydrogeological and hydrological evaluation of the site and its functioning as a landfill shall be prepared.

Site Code: All classes.
Timing Code: Approval and Operations.

13 Surface Drainage and site contours

131 At all times the contours of the site and the provision of works to control surface drainage shall together minimize disturbance to the surrounding drainage pattern.

Site Code: All classes.

Timing Code: Approval and Operations.

132 Contaminated surface drainage shall be collected and appropriately treated.

Site Code: All classes.

Timing Code: Operations.

133 Steps shall be taken so that the quality of the surface water on and adjacent to the site is not impaired as a result of waste at or in the site or as a result of site operations.

Site Code: All classes.

Timing Code: Operations

14 Cell Cover

141 Waste shall be deposited in an orderly manner in the fill area and shall be compacted before cover material is applied.

Site Code: All classes.

Timing Code: Operations.

142 Cover material shall be applied in a layer at least 15 centimetres thick.

Site Code: All classes.
Timing Code: Operations.

146 Cover material shall be applied over newly deposited waste at the end of each day that the site is open.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

15 Burning of waste

151 The controlled burning of segregated brush and clean wood wastes is permitted under constant supervision on a cleared area of the site where there is a minimum fire break of at least 30 metres in all directions from the site of the burning .

Site Code: I0, I40, I200, R0, R40, R200.
Timing Code: Operations.

152 The burning of waste except as specified in paragraph 151 is not permitted.

Site Code: I0, I40, I200, R0, R40, R200.
Timing Code: Operations.

16 Final Cover

161 Whenever any part of a fill area has reached its capacity a final cover of cover material shall be applied and compacted.

Site Code: All classes.
Timing Code: Operations.

162 The compacted cover material shall be at least 0.75 metres thick.

Site Code: All classes.
Timing Code: Operations.

163 Vegetation shall be appropriately chosen and sufficiently well established on the final cover that it regenerates annually.

Site Code: All classes.
Timing Code: Operations.

17 Leachate Control

171 Leachate migrating from the landfill and from the contaminant attenuation zone, if any, shall have no more than a trivial adverse effect on adjacent groundwater.

Site Code: All classes.
Timing code: Approval and Operations.

173 Compliance with paragraph 171 may be accomplished with the assistance of engineered facilities provided appropriate provision is made for their perpetual maintenance and operation.

Site Code: I40, I200, R40, R200, U40, U200.
Timing code: Approval and Operations.

18 Gas Control

181 Gases generated by the decomposition of waste and migrating through the ground shall be confined to the landfill.

Site Code: All classes.
Timing code: Approval and Operations.

183 Compliance with paragraph 181 may be accomplished with the assistance of engineered facilities provided appropriate provision is made for their perpetual maintenance and operation.

Site Code: I40, I200, R40, R200, U40, U200.
Timing code: Approval and Operations.

19 Supervision

193 A supervisor shall be present at the site at all times that the site is open for the acceptance of waste.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

194 The supervisor shall make regular written entries in a log book recording the progress of site development and utilization, whether this accords with the site development plan, and any particulars of site operations which are out of the ordinary including complaints received, resulting actions taken and responses provided.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

195 Log books shall be retained by the owner or operator for two years after they are filled.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

20 Vectors and Rodents

202 A routine pest control program shall be undertaken to maintain control of rodents and other vectors.

Site Code: I200, R40, R200, U0, U40, U200.
Timing Code: Disposal and Operations.

21 Monitoring

212 A predictive monitoring program shall be designed and kept current and carried out in order to test the understanding of the hydrogeologic regime and the effects of landfilling in that setting.

Site Code: I40, I200, R0, R40, R200, U0, U40,
U200.
Timing code: Approval and Operations.

22 Status Report

222 A status report statement summarizing implementation of the site development plan, any variance from the site development plan, complaints received, monitoring results and interpretation thereof, change in separation distance, anticipated changes in operation and management, remaining site capacity and expected site life, shall be prepared and submitted to the Director on or before the last day of March in every year and respecting, in so far as past occurrences go, the preceding calendar year, the first of such reports to be submitted in the calendar year after this standard becomes applicable.

Site Code: I200, R0, R40, R200, U0, U40, U200.
Timing Code: Operations.

23 Financial Guarantees

231 Financial guarantees as proposed in the application for certificate of approval and

approved or as required by conditions of approval, shall be provided and maintained in accordance with the application, approval or conditions including any alterations which may be provided for or subsequently made.

Site Code: All classes of sites not owned by the Crown or a Crown agency.

Timing Code: Disposal and Operations.

STANDARDS FOR R0 SITES

The following standards apply to RURAL sites (separation distance from 500 metres to 3 kilometres) with an approved lifetime capacity from 0 to less than 40,000 cubic metres:

01 Survey

- 011 A reference point on the waste disposal site outside the fill area shall be defined by an Ontario Land Surveyor and marked with a permanent marker.

Site Code: All classes.
Timing Code: Preparation.

- 012 A survey prepared by an Ontario Land Surveyor shall indicate the reference point, the boundaries of the waste disposal site and the fill area and the area underlain by the contaminant attenuation zone if any.

Site Code: All classes except sites on unpatented Crown land.
Timing Code: Preparation.

02 Registration on Title

- 021 A copy of the certificate of approval or provisional certificate of approval shall be registered on the title to the waste disposal site and the area underlain by the contaminant attenuation zone, if any, in the appropriate Land Registry Office.

Site Code: All classes except sites on unpatented Crown land.
Timing Code: Disposal.

03 Development Plans

031 A site development plan shall be prepared and kept up to date and adhered to and shall address the proposed development of the site, including:

- a) contact person
- b) methods of operation
- c) sequence of utilization of areas of site for filling
- d) scheduling
- e) maintenance and housekeeping programs
- f) equipment, including safety, first aid and fire control equipment
- g) site plan
- h) on-site roads
- i) contingency plans
- j) surface drainage and site contours
- k) final cover, cover materials, and vegetation
- l) leachate control measures
- m) gas control measures
- n) monitoring programs
- o) closure program
- p) end use

Site Code: All Classes.

Timing Code: Approval and Operations.

04 Fencing and gates

041 Except at intended access points, unauthorized access to the fill area shall be discouraged by suitable fencing, such as is customarily used on farms, or suitable natural barriers.

Site Code: I0, I40, R0, R40, U0.

Timing Code: Disposal and Operations.

044 Lagoons, pits and similar hazards on the waste disposal site shall be fenced as a safety precaution.

Site Code: All Classes.

Timing Code: Disposal and Operations.

05 Site Preparation Report

051 Appropriate preparation and development of the site or portion of the site shall be carried out in accordance with the approved site development plan and a written statement shall be prepared and submitted to the Director summarizing the work that has been done and describing any departures from the approved site development plan.

Site Code: All classes.
Timing Code: Disposal.

06 Peripheral Area (B-4)

061 The fill area shall be surrounded by a peripheral area at least 30 metres wide.

Site Code: All classes.
Timing Code: Approval and Operations.

07 On-Site Roads

071 Access to the fill area shall be by road.

Site Code: All classes.
Timing Code: Disposal and Operations.

072 All on-site roads shall be capable of handling vehicles hauling waste to and from the site under normal weather conditions.

Site Code: All classes.
Timing Code: Disposal and Operations.

073 All on-site roads shall be at least three metres wide, appropriately surfaced and, if utilized in December, January, February or March, shall have at least a one metre shoulder for snow removal.

Site Code: All classes.
Timing Code: Disposal and Operations.

074 On-site roads shall have suitable provision for passing and turning where appropriate.

Site Code: All classes.

Timing Code: Disposal and Operations.

08 Signs

081 There shall be, at every entrance to the waste disposal site where vehicles carrying waste may enter, a sign providing at least the following information:

- a) the names of the owner and operator;
- b) the hours of operation;
- c) a warning that only municipal waste is acceptable at the site;
- d) the class of site; and
- e) the certificate of approval or provisional certificate of approval number.

Site Code: All classes.

Timing Code: Disposal and Operations.

082 There shall be, at every entrance to the site where vehicles carrying waste may enter and adjacent to the fill area, a sign indicating where help may be reached in the event of fire or accident at the site.

Site Code: I40, R0, R40, U0.

Timing Code: Disposal and Operations.

09 Screening

091 Required screening shall consist of vegetation or other natural features to the extent reasonably possible.

Site Code: All classes.

Timing Code: Disposal and Operations.

092 The site shall be screened from the view of persons on public roads.

Site Code: All classes.

Timing Code: Disposal and Operations.

093 The site shall be screened from the view of persons utilizing any nearby permanent residential, commercial or institutional facilities or recreational structures.

Site Code: R0, R40, R200.
Timing Code: Disposal and Operations.

10 Housekeeping

102 Site cleanup and related housekeeping measures shall be carried out in accordance with the site development plan.

Site Code: All classes.
Timing Code: Operations.

11 Contingency Plan

111 A contingency plan shall be prepared and kept up to date which describes backup measures to be implemented in the event of the failure of the site or elements of the design of the site to meet planned and approved environmental criteria.

Site Code: All classes.
Timing Code: Approval and Operations.

12 Hydrogeology and Hydrology

121 A hydrogeological and hydrological evaluation of the site and its functioning as a landfill shall be prepared.

Site Code: All classes.
Timing Code: Approval and Operations.

13 Surface Drainage and site contours

131 At all times the contours of the site and the provision of works to control surface drainage

shall together minimize disturbance to the surrounding drainage pattern.

Site Code: All classes.
Timing Code: Approval and Operations.

132 Contaminated surface drainage shall be collected and appropriately treated.

Site Code: All classes.
Timing Code: Operations.

133 Steps shall be taken so that the quality of the surface water on and adjacent to the site is not impaired as a result of waste at or in the site or as a result of site operations.

Site Code: All classes.
Timing Code: Operations

14 Cell Cover

141 Waste shall be deposited in an orderly manner in the fill area and shall be compacted before cover material is applied.

Site Code: All classes.
Timing Code: Operations.

142 Cover material shall be applied in a layer at least 15 centimetres thick.

Site Code: All classes.
Timing Code: Operations.

144 Cover material shall be applied over newly deposited waste at least once a week.

Site Code: R0.
Timing Code: Operations.

15 Burning of waste

151 The controlled burning of segregated brush and clean wood wastes is permitted under constant supervision on a cleared area of the site where there is a minimum fire break of at least 30 metres in all directions from the site of the burning .

Site Code: I0, I40, I200, R0, R40, R200.
Timing Code: Operations.

152 The burning of waste except as specified in paragraph 151 is not permitted.

Site Code: I0, I40, I200, R0, R40, R200.
Timing Code: Operations.

16 Final Cover

161 Whenever any part of a fill area has reached its capacity a final cover of cover material shall be applied and compacted.

Site Code: All classes.
Timing Code: Operations.

162 The compacted cover material shall be at least 0.75 metres thick.

Site Code: All classes.
Timing Code: Operations.

163 Vegetation shall be appropriately chosen and sufficiently well established on the final cover that it regenerates annually.

Site Code: All classes.
Timing Code: Operations.

17 Leachate Control

171 Leachate migrating from the landfill and from the contaminant attenuation zone, if any, shall have no more than a trivial adverse effect on adjacent groundwater.

Site Code: All classes.
Timing code: Approval and Operations.

172 Compliance with paragraph 171 shall be attained by means of careful site development and operation and the natural characteristics of the site and the surrounding lands.

Site Code: I0, R0, U0.
Timing code: Approval and Operations.

18 Gas Control

181 Gases generated by the decomposition of waste and migrating through the ground shall be confined to the landfill.

Site Code: All classes.
Timing code: Approval and Operations.

182 Compliance with paragraph 181 shall be attained by means of careful site development and operation and the natural characteristics of the site and the surrounding lands.

Site Code: I0, R0, U0.
Timing code: Approval and Operations.

19 Supervision

191 The site shall be inspected weekly at all times that the site is accepting waste to ensure that it is being operated properly and in accordance with all applicable requirements and a written record of the results of each such inspection shall be made and retained by the owner or operator for two years.

Site Code: I0, R0.
Timing Code: Operations.

20 Vectors and Rodents

201 A contingency plan shall be prepared and kept current and shall be implemented when necessary to control rodents or other vectors.

Site Code: I0, I40, R0.
Timing code: Approval and Operations.

21 Monitoring

212 A predictive monitoring program shall be designed and kept current and carried out in order to test the understanding of the hydrogeologic regime and the effects of landfilling in that setting.

Site Code: I40, I200, R0, R40, R200, U0, U40,
U200.
Timing code: Approval and Operations.

22 Status Report

222 A status report statement summarizing implementation of the site development plan, any variance from the site development plan, complaints received, monitoring results and interpretation thereof, change in separation distance, anticipated changes in operation and management, remaining site capacity and expected site life, shall be prepared and submitted to the Director on or before the last day of March in every year and respecting, in so far as past occurrences go, the preceding calendar year, the first of such reports to be submitted in the calendar year after this standard becomes applicable.

Site Code: I200, R0, R40, R200, U0, U40, U200.
Timing Code: Operations.

23 Financial Guarantees

231 Financial guarantees as proposed in the application for certificate of approval and approved or as required by conditions of approval, shall be provided and maintained in accordance with the application, approval or conditions including any alterations which may be provided for or subsequently made.

Site Code: All classes of sites not owned by the Crown or a Crown agency.

Timing Code: Disposal and Operations.

STANDARDS FOR U0 SITES

The following standards apply to URBAN sites (separation distance less than 500 metres) with an approved lifetime capacity from 0 to less than 40,000 cubic metres :

01 Survey

011 A reference point on the waste disposal site outside the fill area shall be defined by an Ontario Land Surveyor and marked with a permanent marker.

Site Code: All classes.
Timing Code: Preparation.

012 A survey prepared by an Ontario Land Surveyor shall indicate the reference point, the boundaries of the waste disposal site and the fill area and the area underlain by the contaminant attenuation zone if any.

Site Code: All classes except sites on unpatented Crown land.
Timing Code: Preparation.

02 Registration on Title

021 A copy of the certificate of approval or provisional certificate of approval shall be registered on the title to the waste disposal site and the area underlain by the contaminant attenuation zone, if any, in the appropriate Land Registry Office.

Site Code: All classes except sites on unpatented Crown land.
Timing Code: Disposal.

03 Development Plans

031 A site development plan shall be prepared and kept up to date and adhered to and shall address the proposed development of the site, including:

- a) contact person
- b) methods of operation
- c) sequence of utilization of areas of site for filling
- d) scheduling
- e) maintenance and housekeeping programs
- f) equipment, including safety, first aid and fire control equipment
- g) site plan
- h) on-site roads
- i) contingency plans
- j) surface drainage and site contours
- k) final cover, cover materials, and vegetation
- l) leachate control measures
- m) gas control measures
- n) monitoring programs
- o) closure program
- p) end use

Site Code: All Classes.

Timing Code: Approval and Operations.

04 Fencing and gates

041 Except at intended access points, unauthorized access to the fill area shall be discouraged by suitable fencing, such as is customarily used on farms, or suitable natural barriers.

Site Code: I0, I40, R0, R40, U0.

Timing Code: Disposal and Operations.

044 Lagoons, pits and similar hazards on the waste disposal site shall be fenced as a safety precaution.

Site Code: All Classes.

Timing Code: Disposal and Operations.

05 Site Preparation Report

051 Appropriate preparation and development of the site or portion of the site shall be carried out in accordance with the approved site development plan and a written statement shall be prepared and submitted to the Director summarizing the work that has been done and describing any departures from the approved site development plan.

Site Code: All classes.
Timing Code: Disposal.

06 Peripheral Area (buffer)

061 The fill area shall be surrounded by a peripheral area at least 30 metres wide.

Site Code: All classes.
Timing Code: Approval and Operations.

07 On-Site Roads

071 Access to the fill area shall be by road.

Site Code: All classes.
Timing Code: Disposal and Operations.

072 All on-site roads shall be capable of handling vehicles hauling waste to and from the site under normal weather conditions.

Site Code: All classes.
Timing Code: Disposal and Operations.

073 All on-site roads shall be at least three metres wide, appropriately surfaced and, if utilized in December, January, February or March, shall have at least a one metre shoulder for snow removal.

Site Code: All classes.
Timing Code: Disposal and Operations.

074 On-site roads shall have suitable provision for passing and turning where appropriate.

Site Code: All classes.

Timing Code: Disposal and Operations.

08 Signs

081 There shall be, at every entrance to the waste disposal site where vehicles carrying waste may enter, a sign providing at least the following information:

- a) the names of the owner and operator;
- b) the hours of operation;
- c) a warning that only municipal waste is acceptable at the site;
- d) the class of site; and
- e) the certificate of approval or provisional certificate of approval number.

Site Code: All classes.

Timing Code: Disposal and Operations.

082 There shall be, at every entrance to the site where vehicles carrying waste may enter and adjacent to the fill area, a sign indicating where help may be reached in the event of fire or accident at the site.

Site Code: I40, R0, R40, U0.

Timing Code: Disposal and Operations.

09 Screening

091 Required screening shall consist of vegetation or other natural features to the extent reasonably possible.

Site Code: All classes.

Timing Code: Disposal and Operations.

092 The site shall be screened from the view of persons on public roads.

Site Code: All classes.
Timing Code: Disposal and Operations.

094 The site shall be screened from public view on all sides.

Site Code: U0, U40, U200.
Timing Code: Disposal and Operations.

10 Housekeeping

102 Site cleanup and related housekeeping measures shall be carried out in accordance with the site development plan.

Site Code: All classes.
Timing Code: Operations.

11 Contingency Plan

111 A contingency plan shall be prepared and kept up to date which describes backup measures to be implemented in the event of the failure of the site or elements of the design of the site to meet planned and approved environmental criteria.

Site Code: All classes.
Timing Code: Approval and Operations.

12 Hydrogeology and Hydrology

121 A hydrogeological and hydrological evaluation of the site and its functioning as a landfill shall be prepared.

Site Code: All classes.
Timing Code: Approval and Operations.

13 Surface Drainage and site contours

131 At all times the contours of the site and the provision of works to control surface drainage shall together minimize disturbance to the surrounding drainage pattern.

Site Code: All classes.
Timing Code: Approval and Operations.

132 Contaminated surface drainage shall be collected and appropriately treated.

Site Code: All classes.
Timing Code: Operations.

133 Steps shall be taken so that the quality of the surface water on and adjacent to the site is not impaired as a result of waste at or in the site or as a result of site operations.

Site Code: All classes.
Timing Code: Operations

14 Cell Cover

141 Waste shall be deposited in an orderly manner in the fill area and shall be compacted before cover material is applied.

Site Code: All classes.
Timing Code: Operations.

142 Cover material shall be applied in a layer at least 15 centimetres thick.

Site Code: All classes.
Timing Code: Operations.

145 Cover material shall be applied over newly deposited waste at least twice a week.

Site Code: U0.
Timing Code: Operations.

15 Burning of waste

153 The burning of waste is not permitted.

Site Code: U0, U40, U200.
Timing Code: Operations.

16 Final Cover

161 Whenever any part of a fill area has reached its capacity a final cover of cover material shall be applied and compacted.

Site Code: All classes.
Timing Code: Operations.

162 The compacted cover material shall be at least 0.75 metres thick.

Site Code: All classes.
Timing Code: Operations.

163 Vegetation shall be appropriately chosen and sufficiently well established on the final cover that it regenerates annually.

Site Code: All classes.
Timing Code: Operations.

17 Leachate Control

171 Leachate migrating from the landfill and from the contaminant attenuation zone, if any, shall have no more than a trivial adverse effect on adjacent groundwater.

Site Code: All classes.
Timing code: Approval and Operations.

172 Compliance with paragraph 171 shall be attained by means of careful site development and operation and the natural characteristics of the site and the surrounding lands.

Site Code: I0, R0, U0.
Timing code: Approval and Operations.

18 Gas Control

181 Gases generated by the decomposition of waste and migrating through the ground shall be confined to the landfill.

Site Code: All classes.
Timing code: Approval and Operations.

182 Compliance with paragraph 181 shall be attained by means of careful site development and operation and the natural characteristics of the site and the surrounding lands.

Site Code: I0, R0, U0.
Timing code: Approval and Operations.

19 Supervision

192 The site shall be inspected daily at all times that the site is accepting waste to ensure that it is being operated properly and in accordance with all applicable requirements and a written record of the results of each such inspection shall be made and retained by the owner or operator for two years.

Site Code: U0.
Timing Code: Operations.

20 Vectors and Rodents

202 A routine pest control program shall be undertaken to maintain control of rodents and other vectors.

Site Code: I200, R40, R200, U0, U40, U200.

Timing Code: Disposal and Operations.

21 Monitoring

212 A predictive monitoring program shall be designed and kept current and carried out in order to test the understanding of the hydrogeologic regime and the effects of landfilling in that setting.

Site Code: I40, I200, R0, R40, R200, U0, U40, U200.

Timing code: Approval and Operations.

22 Status Report

222 A status report statement summarizing implementation of the site development plan, any variance from the site development plan, complaints received, monitoring results and interpretation thereof, change in separation distance, anticipated changes in operation and management, remaining site capacity and expected site life, shall be prepared and submitted to the Director on or before the last day of March in every year and respecting, in so far as past occurrences go, the preceding calendar year, the first of such reports to be submitted in the calendar year after this standard becomes applicable.

Site Code: I200, R0, R40, R200, U0, U40, U200.

Timing Code: Operations.

23 Financial Guarantees

231 Financial guarantees as proposed in the application for certificate of approval and approved or as required by conditions of approval, shall be provided and maintained in accordance with the application, approval or conditions including any alterations which may be provided for or subsequently made.

Site Code: All classes of sites not owned by the Crown or a Crown agency.
Timing Code: Disposal and Operations.

STANDARDS FOR U40 SITES

The following standards apply to URBAN sites (separation distance less than 500 metres) with an approved lifetime capacity from 40,000 cubic metres to 200,000 cubic metres:

01 Survey

- 011 A reference point on the waste disposal site outside the fill area shall be defined by an Ontario Land Surveyor and marked with a permanent marker.

Site Code: All classes.
Timing Code: Preparation.

- 012 A survey prepared by an Ontario Land Surveyor shall indicate the reference point, the boundaries of the waste disposal site and the fill area and the area underlain by the contaminant attenuation zone if any.

Site Code: All classes except sites on unpatented Crown land.
Timing Code: Preparation.

02 Registration on Title

- 021 A copy of the certificate of approval or provisional certificate of approval shall be registered on the title to the waste disposal site and the area underlain by the contaminant attenuation zone, if any, in the appropriate Land Registry Office.

Site Code: All classes except sites on unpatented Crown land.
Timing Code: Disposal.

03 Development Plans

031 A site development plan shall be prepared and kept up to date and adhered to and shall address the proposed development of the site, including:

- a) contact person
- b) methods of operation
- c) sequence of utilization of areas of site for filling
- d) scheduling
- e) maintenance and housekeeping programs
- f) equipment, including safety, first aid and fire control equipment
- g) site plan
- h) on-site roads
- i) contingency plans
- j) surface drainage and site contours
- k) final cover, cover materials, and vegetation
- l) leachate control measures
- m) gas control measures
- n) monitoring programs
- o) closure program
- p) end use

Site Code: All Classes.

Timing Code: Approval and Operations.

04 Fencing and gates

042 Except at intended access points, unauthorized access to the fill area shall be discouraged by suitable fencing, such as chain link fence.

Site Code: I200, R200, U40, U200.

Timing Code: Disposal and Operations.

043 A gate shall be provided for every access point to the fill area and it shall be locked whenever a supervisor is not present on the site.

Site Code: I40, I200, R40, R200, U40, U200.

Timing Code: Disposal and Operations.

044 Lagoons, pits and similar hazards on the waste disposal site shall be fenced as a safety precaution.

Site Code: All Classes.
Timing Code: Disposal and Operations.

05 Site Preparation Report

051 Appropriate preparation and development of the site or portion of the site shall be carried out in accordance with the approved site development plan and a written statement shall be prepared and submitted to the Director summarizing the work that has been done and describing any departures from the approved site development plan.

Site Code: All classes.
Timing Code: Disposal.

06 Peripheral Area

061 The fill area shall be surrounded by a peripheral area at least 30 metres wide.

Site Code: All classes.
Timing Code: Approval and Operations.

07 On-Site Roads

071 Access to the fill area shall be by road.

Site Code: All classes.
Timing Code: Disposal and Operations.

072 All on-site roads shall be capable of handling vehicles hauling waste to and from the site under normal weather conditions.

Site Code: All classes.
Timing Code: Disposal and Operations.

073 All on-site roads shall be at least three metres wide, appropriately surfaced and, if utilized in December, January, February or March, shall have at least a one metre shoulder for snow removal.

Site Code: All classes.
Timing Code: Disposal and Operations.

074 On-site roads shall have suitable provision for passing and turning where appropriate.

Site Code: All classes.
Timing Code: Disposal and Operations.

08 Signs

081 There shall be, at every entrance to the waste disposal site where vehicles carrying waste may enter, a sign providing at least the following information:

- a) the names of the owner and operator;
- b) the hours of operation;
- c) a warning that only municipal waste is acceptable at the site;
- d) the class of site; and
- e) the certificate of approval or provisional certificate of approval number.

Site Code: All classes.
Timing Code: Disposal and Operations.

09 Screening

091 Required screening shall consist of vegetation or other natural features to the extent reasonably possible.

Site Code: All classes.
Timing Code: Disposal and Operations.

092 The site shall be screened from the view of persons on public roads.

Site Code: All classes.
Timing Code: Disposal and Operations.

094 The site shall be screened from public view on all sides.

Site Code: U0, U40, U200.
Timing Code: Disposal and Operations.

10 Housekeeping

102 Site cleanup and related housekeeping measures shall be carried out in accordance with the site development plan.

Site Code: All classes.
Timing Code: Operations.

11 Contingency Plan

111 A contingency plan shall be prepared and kept up to date which describes backup measures to be implemented in the event of the failure of the site or elements of the design of the site to meet planned and approved environmental criteria.

Site Code: All classes.
Timing Code: Approval and Operations.

12 Hydrogeology and Hydrology

121 A hydrogeological and hydrological evaluation of the site and its functioning as a landfill shall be prepared.

Site Code: All classes.
Timing Code: Approval and Operations.

13 Surface Drainage and site contours

131 At all times the contours of the site and the provision of works to control surface drainage shall together minimize disturbance to the surrounding drainage pattern.

Site Code: All classes.
Timing Code: Approval and Operations.

132 Contaminated surface drainage shall be collected and appropriately treated.

Site Code: All classes.
Timing Code: Operations.

133 Steps shall be taken so that the quality of the surface water on and adjacent to the site is not impaired as a result of waste at or in the site or as a result of site operations.

Site Code: All classes.
Timing Code: Operations

14 Cell Cover

141 Waste shall be deposited in an orderly manner in the fill area and shall be compacted before cover material is applied.

Site Code: All classes.
Timing Code: Operations.

142 Cover material shall be applied in a layer at least 15 centimetres thick.

Site Code: All classes.
Timing Code: Operations.

146 Cover material shall be applied over newly deposited waste at the end of each day that the site is open.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

15 Burning of waste

153 The burning of waste is not permitted.

Site Code: U0, U40, U200.

Timing Code: Operations.

16 Final Cover

161 Whenever any part of a fill area has reached its capacity a final cover of cover material shall be applied and compacted.

Site Code: All classes.

Timing Code: Operations.

162 The compacted cover material shall be at least 0.75 metres thick.

Site Code: All classes.

Timing Code: Operations.

163 Vegetation shall be appropriately chosen and sufficiently well established on the final cover that it regenerates annually.

Site Code: All classes.

Timing Code: Operations.

17 Leachate Control

171 Leachate migrating from the landfill and from the contaminant attenuation zone, if any, shall have no more than a trivial adverse effect on adjacent groundwater.

Site Code: All classes.

Timing code: Approval and Operations.

173 Compliance with paragraph 171 may be accomplished with the assistance of engineered facilities provided appropriate provision is made for their perpetual maintenance and operation.

Site Code: I40, I200, R40, R200, U40, U200.
Timing code: Approval and Operations.

18 Gas Control

181 Gases generated by the decomposition of waste and migrating through the ground shall be confined to the landfill.

Site Code: All classes.
Timing code: Approval and Operations.

183 Compliance with paragraph 181 may be accomplished with the assistance of engineered facilities provided appropriate provision is made for their perpetual maintenance and operation.

Site Code: I40, I200, R40, R200, U40, U200.
Timing code: Approval and Operations.

19 Supervision

193 A supervisor shall be present at the site at all times that the site is open for the acceptance of waste.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

194 The supervisor shall make regular written entries in a log book recording the progress of site development and utilization, whether this accords with the site development plan, and any particulars of site operations which are out of the ordinary including complaints received, resulting actions taken and responses provided.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

195 Log books shall be retained by the owner or operator for two years after they are filled.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

20 Vectors and Rodents

202 A routine pest control program shall be undertaken to maintain control of rodents and other vectors.

Site Code: I200, R40, R200, U0, U40, U200.
Timing Code: Disposal and Operations.

21 Monitoring

212 A predictive monitoring program shall be designed and kept current and carried out in order to test the understanding of the hydrogeologic regime and the effects of landfilling in that setting.

Site Code: I40, I200, R0, R40, R200, U0, U40,
U200.

Timing code: Approval and Operations.

22 Status Report

222 A status report statement summarizing implementation of the site development plan, any variance from the site development plan, complaints received, monitoring results and interpretation thereof, change in separation distance, anticipated changes in operation and management, remaining site capacity and expected site life, shall be prepared and submitted to the Director on or before the last day of March in every year and respecting, in so far as past occurrences go, the preceding calendar year, the first of such reports to be submitted in the calendar year after this standard becomes applicable.

Site Code: I200, R0, R40, R200, U0, U40, U200.
Timing Code: Operations.

23 Financial Guarantees

231 Financial guarantees as proposed in the application for certificate of approval and approved or as required by conditions of approval, shall be provided and maintained in accordance with the application, approval or conditions including any alterations which may be provided for or subsequently made.

Site Code: All classes of sites not owned by the Crown or a Crown agency.

Timing Code: Disposal and Operations.

STANDARDS FOR U200 SITES

The following standards apply to URBAN sites (separation distance less than 500 metres) with an approved lifetime capacity greater than 200,000 cubic metres:

01 Survey

011 A reference point on the waste disposal site outside the fill area shall be defined by an Ontario Land Surveyor and marked with a permanent marker.

Site Code: All classes.
Timing Code: Preparation.

012 A survey prepared by an Ontario Land Surveyor shall indicate the reference point, the boundaries of the waste disposal site and the fill area and the area underlain by the contaminant attenuation zone if any.

Site Code: All classes except sites on unpatented Crown land.
Timing Code: Preparation.

02 Registration on Title

021 A copy of the certificate of approval or provisional certificate of approval shall be registered on the title to the waste disposal site and the area underlain by the contaminant attenuation zone, if any, in the appropriate Land Registry Office.

Site Code: All classes except sites on unpatented Crown land.
Timing Code: Disposal.

03 Development Plans

031 A site development plan shall be prepared and kept up to date and adhered to and shall address the proposed development of the site, including:

- a) contact person
- b) methods of operation
- c) sequence of utilization of areas of site for filling
- d) scheduling
- e) maintenance and housekeeping programs
- f) equipment, including safety, first aid and fire control equipment
- g) site plan
- h) on-site roads
- i) contingency plans
- j) surface drainage and site contours
- k) final cover, cover materials, and vegetation
- l) leachate control measures
- m) gas control measures
- n) monitoring programs
- o) closure program
- p) end use

Site Code: All Classes.

Timing Code: Approval and Operations.

04 Fencing and gates

042 Except at intended access points, unauthorized access to the fill area shall be discouraged by suitable fencing, such as chain link fence.

Site Code: I200, R200, U40, U200.

Timing Code: Disposal and Operations.

043 A gate shall be provided for every access point to the fill area and it shall be locked whenever a supervisor is not present on the site.

Site Code: I40, I200, R40, R200, U40, U200.

Timing Code: Disposal and Operations.

044 Lagoons, pits and similar hazards on the waste disposal site shall be fenced as a safety precaution.

Site Code: All Classes.
Timing Code: Disposal and Operations.

05 Site Preparation Report

051 Appropriate preparation and development of the site or portion of the site shall be carried out in accordance with the approved site development plan and a written statement shall be prepared and submitted to the Director summarizing the work that has been done and describing any departures from the approved site development plan.

Site Code: All classes.
Timing Code: Disposal.

06 Peripheral Area (S-S)

061 The fill area shall be surrounded by a peripheral area at least 30 metres wide.

Site Code: All classes.
Timing Code: Approval and Operations.

07 On-Site Roads

071 Access to the fill area shall be by road.

Site Code: All classes.
Timing Code: Disposal and Operations.

072 All on-site roads shall be capable of handling vehicles hauling waste to and from the site under normal weather conditions.

Site Code: All classes.
Timing Code: Disposal and Operations.

073 All on-site roads shall be at least three metres wide, appropriately surfaced and, if utilized in December, January, February or March, shall have at least a one metre shoulder for snow removal.

Site Code: All classes.

Timing Code: Disposal and Operations.

074 On-site roads shall have suitable provision for passing and turning where appropriate.

Site Code: All classes.

Timing Code: Disposal and Operations.

08 Signs

081 There shall be, at every entrance to the waste disposal site where vehicles carrying waste may enter, a sign providing at least the following information:

- a) the names of the owner and operator;
- b) the hours of operation;
- c) a warning that only municipal waste is acceptable at the site;
- d) the class of site; and
- e) the certificate of approval or provisional certificate of approval number.

Site Code: All classes.

Timing Code: Disposal and Operations.

09 Screening

091 Required screening shall consist of vegetation or other natural features to the extent reasonably possible.

Site Code: All classes.

Timing Code: Disposal and Operations.

092 The site shall be screened from the view of persons on public roads.

Site Code: All classes.
Timing Code: Disposal and Operations.

094 The site shall be screened from public view on all sides.

Site Code: U0, U40, U200.
Timing Code: Disposal and Operations.

10 Housekeeping

102 Site cleanup and related housekeeping measures shall be carried out in accordance with the site development plan.

Site Code: All classes.
Timing Code: Operations.

11 Contingency Plan

111 A contingency plan shall be prepared and kept up to date which describes backup measures to be implemented in the event of the failure of the site or elements of the design of the site to meet planned and approved environmental criteria.

Site Code: All classes.
Timing Code: Approval and Operations.

12 Hydrogeology and Hydrology

121 A hydrogeological and hydrological evaluation of the site and its functioning as a landfill shall be prepared.

Site Code: All classes.
Timing Code: Approval and Operations.

13 Surface Drainage and site contours

131 At all times the contours of the site and the provision of works to control surface drainage shall together minimize disturbance to the surrounding drainage pattern.

Site Code: All classes.
Timing Code: Approval and Operations.

132 Contaminated surface drainage shall be collected and appropriately treated.

Site Code: All classes.
Timing Code: Operations.

133 Steps shall be taken so that the quality of the surface water on and adjacent to the site is not impaired as a result of waste at or in the site or as a result of site operations.

Site Code: All classes.
Timing Code: Operations

14 Cell Cover

141 Waste shall be deposited in an orderly manner in the fill area and shall be compacted before cover material is applied.

Site Code: All classes.
Timing Code: Operations.

142 Cover material shall be applied in a layer at least 15 centimetres thick.

Site Code: All classes.
Timing Code: Operations.

146 Cover material shall be applied over newly deposited waste at the end of each day that the site is open.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

15 Burning of waste

153 The burning of waste is not permitted.

Site Code: U0, U40, U200.
Timing Code: Operations.

16 Final Cover

161 Whenever any part of a fill area has reached its capacity a final cover of cover material shall be applied and compacted.

Site Code: All classes.
Timing Code: Operations.

162 The compacted cover material shall be at least 0.75 metres thick.

Site Code: All classes.
Timing Code: Operations.

163 Vegetation shall be appropriately chosen and sufficiently well established on the final cover that it regenerates annually.

Site Code: All classes.
Timing Code: Operations.

17 Leachate Control

171 Leachate migrating from the landfill and from the contaminant attenuation zone, if any, shall have no more than a trivial adverse effect on adjacent groundwater.

Site Code: All classes.
Timing code: Approval and Operations.

173 Compliance with paragraph 171 may be accomplished with the assistance of engineered facilities provided appropriate provision is made for their perpetual maintenance and operation.

Site Code: I40, I200, R40, R200, U40, U200.
Timing code: Approval and Operations.

18 Gas Control

181 Gases generated by the decomposition of waste and migrating through the ground shall be confined to the landfill.

Site Code: All classes.
Timing code: Approval and Operations.

183 Compliance with paragraph 181 may be accomplished with the assistance of engineered facilities provided appropriate provision is made for their perpetual maintenance and operation.

Site Code: I40, I200, R40, R200, U40, U200.
Timing code: Approval and Operations.

19 Supervision

193 A supervisor shall be present at the site at all times that the site is open for the acceptance of waste.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

194 The supervisor shall make regular written entries in a log book recording the progress of site development and utilization, whether this accords with the site development plan, and any particulars of site operations which are out of the ordinary including complaints received, resulting actions taken and responses provided.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

195 Log books shall be retained by the owner or operator for two years after they are filled.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

20 Vectors and Rodents

202 A routine pest control program shall be undertaken to maintain control of rodents and other vectors.

Site Code: I200, R40, R200, U0, U40, U200.
Timing Code: Disposal and Operations.

21 Monitoring

212 A predictive monitoring program shall be designed and kept current and carried out in order to test the understanding of the hydrogeologic regime and the effects of landfilling in that setting.

Site Code: I40, I200, R0, R40, R200, U0, U40, U200.
Timing code: Approval and Operations.

22 Status Report

222 A status report statement summarizing implementation of the site development plan, any variance from the site development plan, complaints received, monitoring results and interpretation thereof, change in separation distance, anticipated changes in operation and management, remaining site capacity and expected site life, shall be prepared and submitted to the Director on or before the last day of March in every year and respecting, in so far as past occurrences go, the preceding calendar year, the first of such reports to be submitted in the calendar year after this standard becomes applicable.

Site Code: I200, R0, R40, R200, U0, U40, U200.
Timing Code: Operations.

23 Financial Guarantees

231 Financial guarantees as proposed in the application for certificate of approval and approved or as required by conditions of approval, shall be provided and maintained in accordance with the application, approval or conditions including any alterations which may be provided for or subsequently made.

Site Code: All classes of sites not owned by the Crown or a Crown agency.

Timing Code: Disposal and Operations.

STANDARDS FOR R40 SITES

The following standards apply to RURAL sites (separation distance from 500 metres to 3 kilometres) with an approved lifetime capacity from 40,000 cubic metres to 200,000 cubic metres:

01 Survey

011. A reference point on the waste disposal site outside the fill area shall be defined by an Ontario Land Surveyor and marked with a permanent marker.

Site Code: All classes.
Timing Code: Preparation.

012. A survey prepared by an Ontario Land Surveyor shall indicate the reference point, the boundaries of the waste disposal site and the fill area and the area underlain by the contaminant attenuation zone if any.

Site Code: All classes except sites on unpatented Crown land.
Timing Code: Preparation.

02 Registration on Title

021. A copy of the certificate of approval or provisional certificate of approval shall be registered on the title to the waste disposal site and the area underlain by the contaminant attenuation zone, if any, in the appropriate Land Registry Office.

Site Code: All classes except sites on unpatented Crown land.
Timing Code: Disposal.

03 Development Plans

031 A site development plan shall be prepared and kept up to date and adhered to and shall address the proposed development of the site, including:

- a) contact person
- b) methods of operation
- c) sequence of utilization of areas of site for filling
- d) scheduling
- e) maintenance and housekeeping programs
- f) equipment, including safety, first aid and fire control equipment
- g) site plan
- h) on-site roads
- i) contingency plans
- j) surface drainage and site contours
- k) final cover, cover materials, and vegetation
- l) leachate control measures
- m) gas control measures
- n) monitoring programs
- o) closure program
- p) end use

Site Code: All Classes.

Timing Code: Approval and Operations.

04 Fencing and gates

041 Except at intended access points, unauthorized access to the fill area shall be discouraged by suitable fencing, such as is customarily used on farms, or suitable natural barriers.

Site Code: I0, I40, R0, R40, U0.

Timing Code: Disposal and Operations.

043 A gate shall be provided for every access point to the fill area and it shall be locked whenever a supervisor is not present on the site.

Site Code: I40, I200, R40, R200, U40, U200.

Timing Code: Disposal and Operations.

044 Lagoons, pits and similar hazards on the waste disposal site shall be fenced as a safety precaution.

Site Code: All Classes.

Timing Code: Disposal and Operations.

05 Site Preparation Report

051 Appropriate preparation and development of the site or portion of the site shall be carried out in accordance with the approved site development plan and a written statement shall be prepared and submitted to the Director summarizing the work that has been done and describing any departures from the approved site development plan.

Site Code: All classes.
Timing Code: Disposal.

06 Peripheral Area (bug))

061 The fill area shall be surrounded by a peripheral area at least 30 metres wide.

Site Code: All classes.
Timing Code: Approval and Operations.

07 On-Site Roads

071 Access to the fill area shall be by road.

Site Code: All classes.
Timing Code: Disposal and Operations.

072 All on-site roads shall be capable of handling vehicles hauling waste to and from the site under normal weather conditions.

Site Code: All classes.
Timing Code: Disposal and Operations.

073 All on-site roads shall be at least three metres wide, appropriately surfaced and, if utilized in December, January, February or March, shall have at least a one metre shoulder for snow removal.

Site Code: All classes.
Timing Code: Disposal and Operations.

074 On-site roads shall have suitable provision for passing and turning where appropriate.

Site Code: All classes.
Timing Code: Disposal and Operations.

08 Signs

081 There shall be, at every entrance to the waste disposal site where vehicles carrying waste may enter, a sign providing at least the following information:

- a) the names of the owner and operator;
- b) the hours of operation;
- c) a warning that only municipal waste is acceptable at the site;
- d) the class of site; and
- e) the certificate of approval or provisional certificate of approval number.

Site Code: All classes.

Timing Code: Disposal and Operations.

082 There shall be, at every entrance to the site where vehicles carrying waste may enter and adjacent to the fill area, a sign indicating where help may be reached in the event of fire or accident at the site.

Site Code: I40, R0, R40, U0.

Timing Code: Disposal and Operations.

09 Screening

091 Required screening shall consist of vegetation or other natural features to the extent reasonably possible.

Site Code: All classes.

Timing Code: Disposal and Operations.

092 The site shall be screened from the view of persons on public roads.

Site Code: All classes.

Timing Code: Disposal and Operations.

093 The site shall be screened from the view of persons utilizing any nearby permanent residential, commercial or institutional facilities or recreational structures.

Site Code: R0, R40, R200.

Timing Code: Disposal and Operations.

10 Housekeeping

102 Site cleanup and related housekeeping measures shall be carried out in accordance with the site development plan.

Site Code: All classes.
Timing Code: Operations.

11 Contingency Plan

111 A contingency plan shall be prepared and kept up to date which describes backup measures to be implemented in the event of the failure of the site or elements of the design of the site to meet planned and approved environmental criteria.

Site Code: All classes.
Timing Code: Approval and Operations.

12 Hydrogeology and Hydrology

121 A hydrogeological and hydrological evaluation of the site and its functioning as a landfill shall be prepared.

Site Code: All classes.
Timing Code: Approval and Operations.

13 Surface Drainage and site contours

131 At all times the contours of the site and the provision of works to control surface drainage shall together minimize disturbance to the surrounding drainage pattern.

Site Code: All classes.
Timing Code: Approval and Operations.

132 Contaminated surface drainage shall be collected and appropriately treated.

Site Code: All classes.
Timing Code: Operations.

133 Steps shall be taken so that the quality of the surface water on and adjacent to the site is not impaired as a result of waste at or in the site or as a result of site operations.

Site Code: All classes.
Timing Code: Operations

14 Cell Cover

141 Waste shall be deposited in an orderly manner in the fill area and shall be compacted before cover material is applied.

Site Code: All classes.
Timing Code: Operations.

142 Cover material shall be applied in a layer at least 15 centimetres thick.

Site Code: All classes.
Timing Code: Operations.

146 Cover material shall be applied over newly deposited waste at the end of each day that the site is open.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

15 Burning of waste

151 The controlled burning of segregated brush and clean wood wastes is permitted under constant supervision on a cleared area of the site where there is a minimum fire break of at least 30 metres in all directions from the site of the burning .

Site Code: I0, I40, I200, R0, R40, R200.
Timing Code: Operations.

152 The burning of waste except as specified in paragraph 151 is not permitted.

Site Code: I0, I40, I200, R0, R40, R200.
Timing Code: Operations.

16 Final Cover

161 Whenever any part of a fill area has reached its capacity a final cover of cover material shall be applied and compacted.

Site Code: All classes.
Timing Code: Operations.

162 The compacted cover material shall be at least 0.75 metres thick.

Site Code: All classes.
Timing Code: Operations.

163 Vegetation shall be appropriately chosen and sufficiently well established on the final cover that it regenerates annually.

Site Code: All classes.
Timing Code: Operations.

17 Leachate Control

171 Leachate migrating from the landfill and from the contaminant attenuation zone, if any, shall have no more than a trivial adverse effect on adjacent groundwater.

Site Code: All classes.
Timing code: Approval and Operations.

173 Compliance with paragraph 171 may be accomplished with the assistance of engineered facilities provided appropriate provision is made for their perpetual maintenance and operation.

Site Code: I40, I200, R40, R200, U40, U200.
Timing code: Approval and Operations.

18 Gas Control

181 Gases generated by the decomposition of waste and migrating through the ground shall be confined to the landfill.

Site Code: All classes.
Timing code: Approval and Operations.

183 Compliance with paragraph 181 may be accomplished with the assistance of engineered facilities provided appropriate provision is made for their perpetual maintenance and operation.

Site Code: I40, I200, R40, R200, U40, U200.
Timing code: Approval and Operations.

19 Supervision

193 A supervisor shall be present at the site at all times that the site is open for the acceptance of waste.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

194 The supervisor shall make regular written entries in a log book recording the progress of site development and utilization, whether this accords with the site development plan, and any particulars of site operations which are out of the ordinary including complaints received, resulting actions taken and responses provided.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

195 Log books shall be retained by the owner or operator for two years after they are filled.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

20 Vectors and Rodents

202 A routine pest control program shall be undertaken to maintain control of rodents and other vectors.

Site Code: I200, R40, R200, U0, U40, U200.

Timing Code: Disposal and Operations.

21 Monitoring

212 A predictive monitoring program shall be designed and kept current and carried out in order to test the understanding of the hydrogeologic regime and the effects of landfilling in that setting.

Site Code: I40, I200, R0, R40, R200, U0, U40, U200.

Timing code: Approval and Operations.

22 Status Report

222 A status report statement summarizing implementation of the site development plan, any variance from the site development plan, complaints received, monitoring results and interpretation thereof, change in separation distance, anticipated changes in operation and management, remaining site capacity and expected site life, shall be prepared and submitted to the Director on or before the last day of March in every year and respecting, in so far as past occurrences go, the preceding calendar year, the first of such reports to be submitted in the calendar year after this standard becomes applicable.

Site Code: I200, R0, R40, R200, U0, U40, U200.

Timing Code: Operations.

23 Financial Guarantees

231 Financial guarantees as proposed in the application for certificate of approval and approved or as required by conditions of approval, shall be provided and maintained in accordance with the application, approval or conditions including any alterations which may be provided for or subsequently made.

Site Code: All classes of sites not owned by the Crown or a Crown agency.

Timing Code: Disposal and Operations.

STANDARDS FOR R200 SITES

The following standards apply to RURAL sites (separation distance from 500 metres to 3 kilometres) with an approved lifetime capacity greater than 200,000 cubic metres :

01 Survey

011 A reference point on the waste disposal site outside the fill area shall be defined by an Ontario Land Surveyor and marked with a permanent marker.

Site Code: All classes.
Timing Code: Preparation.

012 A survey prepared by an Ontario Land Surveyor shall indicate the reference point, the boundaries of the waste disposal site and the fill area and the area underlain by the contaminant attenuation zone if any.

Site Code: All classes except sites on unpatented Crown land.
Timing Code: Preparation.

02 Registration on Title

021 A copy of the certificate of approval or provisional certificate of approval shall be registered on the title to the waste disposal site and the area underlain by the contaminant attenuation zone, if any, in the appropriate Land Registry Office.

Site Code: All classes except sites on unpatented Crown land.
Timing Code: Disposal.

03 Development Plans

031 A site development plan shall be prepared and kept up to date and adhered to and shall address the proposed development of the site, including:

- a) contact person
- b) methods of operation
- c) sequence of utilization of areas of site for filling
- d) scheduling
- e) maintenance and housekeeping programs
- f) equipment, including safety, first aid and fire control equipment
- g) site plan
- h) on-site roads
- i) contingency plans
- j) surface drainage and site contours
- k) final cover, cover materials, and vegetation
- l) leachate control measures
- m) gas control measures
- n) monitoring programs
- o) closure program
- p) end use

Site Code: All Classes.

Timing Code: Approval and Operations.

04 Fencing and gates

042 Except at intended access points, unauthorized access to the fill area shall be discouraged by suitable fencing, such as chain link fence.

Site Code: I200, R200, U40, U200.

Timing Code: Disposal and Operations.

043 A gate shall be provided for every access point to the fill area and it shall be locked whenever a supervisor is not present on the site.

Site Code: I40, I200, R40, R200, U40, U200.

Timing Code: Disposal and Operations.

044 Lagoons, pits and similar hazards on the waste disposal site shall be fenced as a safety precaution.

Site Code: All Classes.
Timing Code: Disposal and Operations.

05 Site Preparation Report

051 Appropriate preparation and development of the site or portion of the site shall be carried out in accordance with the approved site development plan and a written statement shall be prepared and submitted to the Director summarizing the work that has been done and describing any departures from the approved site development plan.

Site Code: All classes.
Timing Code: Disposal.

06 Peripheral Area (*buffer*)

061 The fill area shall be surrounded by a peripheral area at least 30 metres wide.

Site Code: All classes.
Timing Code: Approval and Operations.

07 On-Site Roads

071 Access to the fill area shall be by road.

Site Code: All classes.
Timing Code: Disposal and Operations.

072 All on-site roads shall be capable of handling vehicles hauling waste to and from the site under normal weather conditions.

Site Code: All classes.
Timing Code: Disposal and Operations.

073 All on-site roads shall be at least three metres wide, appropriately surfaced and, if utilized in December, January, February or March, shall have at least a one metre shoulder for snow removal.

Site Code: All classes.
Timing Code: Disposal and Operations.

074 On-site roads shall have suitable provision for passing and turning where appropriate.

Site Code: All classes.
Timing Code: Disposal and Operations.

08 Signs

081 There shall be, at every entrance to the waste disposal site where vehicles carrying waste may enter, a sign providing at least the following information:

- a) the names of the owner and operator;
- b) the hours of operation;
- c) a warning that only municipal waste is acceptable at the site;
- d) the class of site; and
- e) the certificate of approval or provisional certificate of approval number.

Site Code: All classes.
Timing Code: Disposal and Operations.

09 Screening

091 Required screening shall consist of vegetation or other natural features to the extent reasonably possible.

Site Code: All classes.
Timing Code: Disposal and Operations.

092 The site shall be screened from the view of persons on public roads.

Site Code: All classes.

Timing Code: Disposal and Operations.

093 The site shall be screened from the view of persons utilizing any nearby permanent residential, commercial or institutional facilities or recreational structures.

Site Code: R0, R40, R200.

Timing Code: Disposal and Operations.

10 Housekeeping

102 Site cleanup and related housekeeping measures shall be carried out in accordance with the site development plan.

Site Code: All classes.

Timing Code: Operations.

11 Contingency Plan

111 A contingency plan shall be prepared and kept up to date which describes backup measures to be implemented in the event of the failure of the site or elements of the design of the site to meet planned and approved environmental criteria.

Site Code: All classes.

Timing Code: Approval and Operations.

12 Hydrogeology and Hydrology

121 A hydrogeological and hydrological evaluation of the site and its functioning as a landfill shall be prepared.

Site Code: All classes.

Timing Code: Approval and Operations.

13 Surface Drainage and site contours

131 At all times the contours of the site and the provision of works to control surface drainage shall together minimize disturbance to the surrounding drainage pattern.

Site Code: All classes.
Timing Code: Approval and Operations.

132 Contaminated surface drainage shall be collected and appropriately treated.

Site Code: All classes.
Timing Code: Operations.

133 Steps shall be taken so that the quality of the surface water on and adjacent to the site is not impaired as a result of waste at or in the site or as a result of site operations.

Site Code: All classes.
Timing Code: Operations

14 Cell Cover

141 Waste shall be deposited in an orderly manner in the fill area and shall be compacted before cover material is applied.

Site Code: All classes.
Timing Code: Operations.

142 Cover material shall be applied in a layer at least 15 centimetres thick.

Site Code: All classes.
Timing Code: Operations.

146 Cover material shall be applied over newly deposited waste at the end of each day that the site is open.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

15 Burning of waste

151 The controlled burning of segregated brush and clean wood wastes is permitted under constant supervision on a cleared area of the site where there is a minimum fire break of at least 30 metres in all directions from the site of the burning .

Site Code: I0, I40, I200, R0, R40, R200.
Timing Code: Operations.

152 The burning of waste except as specified in paragraph 151 is not permitted.

Site Code: I0, I40, I200, R0, R40, R200.
Timing Code: Operations.

16 Final Cover

161 Whenever any part of a fill area has reached its capacity a final cover of cover material shall be applied and compacted.

Site Code: All classes.
Timing Code: Operations.

162 The compacted cover material shall be at least 0.75 metres thick.

Site Code: All classes.
Timing Code: Operations.

163 Vegetation shall be appropriately chosen and sufficiently well established on the final cover that it regenerates annually.

Site Code: All classes.
Timing Code: Operations.

17 Leachate Control

171 Leachate migrating from the landfill and from the contaminant attenuation zone, if any, shall have no more than a trivial adverse effect on adjacent groundwater.

Site Code: All classes.
Timing code: Approval and Operations.

173 Compliance with paragraph 171 may be accomplished with the assistance of engineered facilities provided appropriate provision is made for their perpetual maintenance and operation.

Site Code: I40, I200, R40, R200, U40, U200.
Timing code: Approval and Operations.

18 Gas Control

181 Gases generated by the decomposition of waste and migrating through the ground shall be confined to the landfill.

Site Code: All classes.
Timing code: Approval and Operations.

183 Compliance with paragraph 181 may be accomplished with the assistance of engineered facilities provided appropriate provision is made for their perpetual maintenance and operation.

Site Code: I40, I200, R40, R200, U40, U200.
Timing code: Approval and Operations.

19 Supervision

193 A supervisor shall be present at the site at all times that the site is open for the acceptance of waste.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

194 The supervisor shall make regular written entries in a log book recording the progress of site development and utilization, whether this accords with the site development plan, and any particulars of site operations which are out of the ordinary including complaints received, resulting actions taken and responses provided.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

195 Log books shall be retained by the owner or operator for two years after they are filled.

Site Code: I40, I200, R40, R200, U40, U200.
Timing Code: Operations.

20 Vectors and Rodents

202 A routine pest control program shall be undertaken to maintain control of rodents and other vectors.

Site Code: I200, R40, R200, U0, U40, U200.
Timing Code: Disposal and Operations.

21 Monitoring

212 A predictive monitoring program shall be designed and kept current and carried out in order to test the understanding of the hydrogeologic regime and the effects of landfilling in that setting.

Site Code: I40, I200, R0, R40, R200, U0, U40, U200.
Timing code: Approval and Operations.

22 Status Report

222 A status report statement summarizing implementation of the site development plan, any variance from the site development plan, complaints received, monitoring results and interpretation thereof, change in separation

distance, anticipated changes in operation and management, remaining site capacity and expected site life, shall be prepared and submitted to the Director on or before the last day of March in every year and respecting, in so far as past occurrences go, the preceding calendar year, the first of such reports to be submitted in the calendar year after this standard becomes applicable.

Site Code: I200, R0, R40, R200, U0, U40, U200.
Timing Code: Operations.

23 Financial Guarantees

231 Financial guarantees as proposed in the application for certificate of approval and approved or as required by conditions of approval, shall be provided and maintained in accordance with the application, approval or conditions including any alterations which may be provided for or subsequently made.

Site Code: All classes of sites not owned by the Crown or a Crown agency.
Timing Code: Disposal and Operations.