

Glossary of Terms

Acronym	Definition
AADT	Annual Average Daily Traffic
AAQC	Ambient Air Quality Criteria
AMSL	Above Mean Sea Level
ANSI	Area of Natural and Scientific Interest
ARA	Aquatic Resource Area
BGS	Below Ground Surface
BMP	Best Management Practice
BOD5	5-day Biochemical Oxygen Demand
BRE	Brooks Road Environmental
C ₂ H ₃ Cl	Vinyl Chloride
CAAQS	Canada Ambient Air Quality Standard
CADNA A	Computer Aided Noise Abatement Acoustical Modeling Software
CBOD5	Carbonaceous Biochemical Oxygen Demand
C&D	Construction and Demolition
CDR	Conceptual Design Report
CEAA	<i>Canadian Environmental Assessment Act</i>
CGU	Cayuga Gypsum Company
CH ₄	Methane Gas
CLS	Contaminating Life Span
CNR	Canadian National Railway
CofA	Certificate of Approval
CO	Carbon Monoxide
COD	Chemical Oxygen Demand
CRA	Conestoga Rovers and Associates
CSP	Corrugated Steel Pipe
CSR	Canadian Southern Railway
DFO	Fisheries and Oceans Canada
D&O	Design & Operations
DOC	Degradable Organic Content
EA	Environmental Assessment

Acronym	Definition
EA Act	Ontario <i>Environmental Assessment Act</i>
EAB	Environmental Approvals Branch
EAAB	Environmental Assessment and Approvals Branch
EC	Environment Canada
ECA	Environmental Compliance Approval
ELC	Ecological Land Classification
EPA	<i>Environmental Protection Act</i>
ESDM	Emissions Summary and Dispersion Modelling
FPR	Full Producer Responsibility
GFI	Gross Farm Income
GHG	Greenhouse Gases
GRCA	Grand River Conservation Authority
GRT	Government Review Team
HALT	Haldimand Against Landfill Transfer
HCCC	Haudenosaunee Confederacy Chiefs Council
HDI	Haudenosaunee Development Institute
HDV	Heavy Duty Vehicles
HELP	Hydrologic Evaluation of Landfill Performance
HPA	Hydrogeologic Performance Assessment
H ₂ S	Hydrogen Sulfide
IC&I	Industrial Commercial and Institutional
IEA	Individual Environmental Assessment
IDF	Intensity Duration Frequency
ISWMS	Interim Stormwater Management
LFG	Landfill Gas
LOS	Level of Service
LTF	Leachate Treatment Facility
MAA	Ontario Ministry of Aboriginal Affairs
MMAH	Ontario Ministry of Municipal Affairs and Housing
MNCFN	Mississaugas of the New Credit First Nation
MNDM	Ministry of Northern Development and Mines
MNO	Métis Nation of Ontario

Acronym	Definition
MNRF	Ontario Ministry of Natural Resources & Forestry (previously Ministry of Natural Resources (MNR))
MOECC	Ontario Ministry of the Environment & Climate Change
MPAC	Municipal Property Assessment Corporation
MSW	Municipal Solid Waste
MTCS	Ministry of Tourism, Culture and Sport
MTO	Ontario Ministry of Transportation
NO ₂	Nitrogen Dioxide
NO _x	Nitrogen Oxides
NPCA	Niagara Peninsula Conservation Authority
NPV	Net Present Value
NRSI	Natural Resource Solutions Incorporated
OLA	Original Landfill Area
OMAFRA	Ontario Ministry of Agriculture, Food & Rural Affairs
OPP	Ontario Provincial Police
O. Reg.	Ontario Regulation
ORNAMENT	Ontario Road Noise Analysis Method for Environment and Transportation
OU	Odour Unit
OWES	Ontario Wetland Evaluation System
OWMA	Ontario Waste Management Association
OWRA	<i>Ontario Water Resources Act</i>
PAH	Polycyclic Aromatic Hydrocarbons
PLC	Public Liaison Committee
PM _{2.5}	Particulate less than 2.5 microns
PM ₁₀	Particulate less than 10 microns
POR	Point of Reception
PPS	Provincial Policy Statement
PSW	Provincially Significant Wetland
PSWMS	Primary Stormwater Management System
PWQO	Provincial Water Quality Objectives
PWQMN	Provincial Water Quality Monitoring Network
SBR	Sequencing Batch Reactor



Acronym	Definition
SAR	Species at Risk
SARA	<i>Species at Risk Act</i>
SARO	Species at Risk in Ontario
Six Nations	Six Nations of the Grand River First Nation
SO ₂	Sulfur Dioxide
SOP	Standard Operating Procedure
SWRA	Surface Water Resources Assessment
TAC	Transportation Association of Canada
TDS	Total Dissolved Solids
TKN	Total Kjeldahl Nitrogen
TSP	Total Suspended Particulate
TNM	Traffic Noise Model
ToR	Terms of Reference
TSS	Total Suspended Solids
USLE	Universal Soil Loss Equation
US	United States
USEPA	United States Environmental Protection Agency
V/C Ratio	Volume-to-Capacity Ratio
VOC	Volatile Organic Compounds
WAR	Waste Acceptance Rate
WFOA	<i>Waste-Free Ontario Act</i>
WMA	World Meteorological Organization
WRA	<i>Waste Reduction Act</i>
WWTP	Waste Water Treatment Plant



Unit	Definition
°C	degree Celsius
cm	centimetre
CO ₂ e	carbon dioxide equivalent
dBA	A-weighted decibels
Leq	equivalent sound level
g/VKT	grams per vehicle kilometer traveled
ha	hectare
km	kilometre
km/h	Kilometre per hour
L	litre
m	metre
mm	millimetre
m ³	cubic metres
M AMSL	metres above mean sea level
m BGS	metres below ground surface
m ²	square metres
scfm	standard cubic feet per minute
µm	micrometre
µg	microgram

Term	Definition
Advantage	A relative term used to indicate that a particular condition is deemed to offer a benefit when compared to another condition.
Alternative	Both alternative methods and alternatives to a proposed undertaking.
Alternative Methods of Carrying out the Undertaking (Interchangeable with Alternative Methods)	Different ways of doing the same activity.
Alternatives To the Undertaking (Interchangeable with Alternatives To)	Functionally different ways of approaching and dealing with a problem or opportunity.
Approval	Permission granted by an authorized individual or organization for an undertaking to proceed. This may be in the form of program approval, certificate of approval or provisional certificate of approval.
Best Management Practices	Scientific, technical, and operational-based approaches to resource management that when applied should allow the user to meet required standards or achieve objectives in a sustainable manner.
Certificate of Approval	A licence or permit issued by the Ministry of the Environment for the operation of a waste management site/facility (now referred to as an Environmental Compliance Approval).
Construction and demolition (C&D) waste	Solid waste produced in the course of residential, commercial, industrial or institutional building construction, demolition or renovation (e.g., lumber, brick, concrete, plaster, glass, stone, drywall, etc.).
Cover material	Material used to cover the waste in the disposal cells during or following landfilling operations. May be daily, intermediate or final.
Criteria	A set of principles or standards used to compare and judge alternatives.
Design and operations (D&O) plan	A document required for obtaining a Certificate of Approval, which describes in detail the function, elements or features of the landfill site/facility, and how a landfill site/facility would function including its monitoring and control/management systems.

Term	Definition
Design capacity (Total Disposal Volume)	The maximum total volume of air space available for disposal of waste at a landfill site for a particular design (typically in m ³); includes both waste and daily cover materials, but excludes the final cover.
Disadvantage	A relative term used to indicate that a particular condition is deemed to be unfavourable or of an inferior condition when compared with another condition.
Environment	<p>As defined by the Environmental Assessment Act, environment means:</p> <ul style="list-style-type: none"> (a) air, land or water, (b) plant and animal life, including human life, (c) the social, economic and cultural conditions that influence the life of humans or a community, (d) any building, structure, machine or other device or thing made by humans, (e) any solid, liquid, gas, odour, heat, sound, vibration or radiation resulting directly or indirectly from human activities, or (f) any part or combination of the foregoing and the interrelationships between any two or more of them (ecosystem approach).
Environmental Assessment	A systematic planning process that is conducted in accordance with applicable laws or regulations aimed at assessing the effects of a proposed undertaking on the environment Evaluation criteria Evaluation criteria are considerations or factors taken into account in assessing the advantages and disadvantages of various alternatives being considered.
<i>Environmental Assessment Act (EA Act)</i>	Legislation that defines a decision-making process used to promote good environmental planning by assessing the potential effects of certain activities on the environment. The purpose of the <i>EA Act</i> is the betterment of the people of the whole or any part of Ontario by providing for the protection, conservation and wise management in Ontario of the environment.
Environmental Compliance Approval (ECA)	<p>The ECA is an instrument of environmental approval issued by the Ontario Ministry of Environment (MOECC) and has replaced the Certificate of Approval.</p> <p>Businesses in Ontario must have MOECC- issued environmental approvals if they release contaminants into the air, onto land or into water, or store, transport or dispose of waste.</p>

Term	Definition
Hazardous waste	Any residual hazardous materials which by their nature are potentially hazardous to human health and/or the environment, as well as any materials, wastes or objects assimilated to a hazardous material. Hazardous waste is defined by Ontario Regulation 347 and may be explosive, gaseous, flammable, toxic, radioactive, corrosive, combustive or leachable.
Indicators	Indicators are specific characteristics of the evaluation criteria that can be measured or determined in some way, as opposed to the actual criteria, which are fairly general.
Industrial, commercial and institutional (IC&I) wastes	Wastes originating from the industrial, commercial and institutional sectors Landfill gas The gases produced from the wastes disposed in a landfill; the main constituents are typically carbon dioxide and methane, with small amounts of other organic and odour-causing compounds.
Landfill site	An approved engineered site/facility used for the final disposal of waste Leachate Liquid that drains from solid waste in a landfill and which contains dissolved, suspended and/or microbial contaminants from the breakdown of this waste.
Mitigation measure	Action that removes or alleviates to some degree the negative effects associated with the implementation of an alternative.
Monitoring	A systematic method for collecting information using standard observations according to a schedule and over a sustained period of time.
Net effects	Positive or negative environmental effects of a project and related activities that will remain after mitigation and impact management measures have been applied.
Non-hazardous waste	Non-hazardous wastes includes all solid waste that does not meet the definition of hazardous waste and includes designated wastes such as asbestos waste.
Potential effect	An effect that is deemed possible to result from an activity.
Proponent	A person who: (a) carries out or proposes to carry out an undertaking, or (b) is the owner or person having charge, management or control of an undertaking Service life The period of time during which the components of a properly designed and maintained engineered facility will function and perform as designed.

Term	Definition
Provincially Significant Wetland	Wetlands identified as provincially significant by the Ministry of Natural Resources and Forestry using evaluation procedures established by the province, as amended from time to time.
Reasoned Argument/ Trade-off Method	A comparative evaluation method based on net effects/advantages and disadvantages and explained in narrative terms (rationale). The process of examining the net effects and key trade-offs of each alternative in order to provide a clear rationale for the preferred alternative.
Site life	The period of time during which the landfill can continue to accept wastes.
Undertaking	An enterprise, activity, proposal, plan or program in respect of a commercial or business enterprise or activity of a person or persons that has potential environmental effects and is assessed in accordance with the requirements of the <i>Environmental Assessment Act</i> .