

<b>%</b>	The symbol for percent.
<b>~</b>	The symbol for about.
<b>&lt;</b>	The symbol for less than.
<b>&gt;</b>	The symbol for greater than.
<b>±</b>	The symbol for plus or minus.
<b>≤</b>	The symbol for less than or equal to.
<b>≥</b>	The symbol for greater than or equal to.
<b>°</b>	The symbol for degree.
<b>°C</b>	The symbol for degree Celsius.
<b>µm</b>	The metric abbreviation for micron or micro.
<b>a</b>	The metric abbreviation for annum.
<b>abandonment and reclamation</b>	The act of permanently stopping operations, removing facilities and restoring land to a productive state.
<b>Aboriginal person</b>	Any Indian, Inuit or Métis person who was born in the Northwest Territories or who is descended from an Aboriginal person born in the Northwest Territories.
<b>AC</b>	The abbreviation for alternating current electrical power.
<b>access agreement</b>	An agreement that reserves the right to access lands and establishes a framework within which site-specific authorizations or agreements are obtained.
<b>access road</b>	A temporary or permanent road that provides access to a pipeline right-of-way or to a facility.

<b>acid deposition</b>	The deposition of acid-forming compounds, i.e., sulphur and nitrogen, in the environment through wet and dry processes. Although wet acid deposition is often referred to as acid rain, other forms of precipitation, e.g., dew, snow and hail, can also be a source of wet deposition.
<b>Active I watercourse</b>	A water channel that has a perennial flow or is partially frozen to the channel bed during winter.
<b>Active II watercourse</b>	A water channel that has defined banks and substrate but is frozen to the bed or that has no flow during winter.
<b>adfreezing</b>	The process by which one object adheres to another by the binding action of ice.
<b>adverse effect</b>	The impairment of, or damage to, the environment or health of humans, or damage to property, or loss of reasonable enjoyment of life or property.
<b>airstrip</b>	An airfield or aircraft runway without normal airport facilities.
<b>alkalinity</b>	The total quantity of base in water that can be determined by titration with a strong acid.
<b>alluvial</b>	Relating to or consisting of alluvium, or deposited by running water.
<b>alluvial fan</b>	A triangular deposit of sediment left by a stream that has lost velocity upon entering a broad, relatively flat valley.
<b>alluvium</b>	A deposit of sediment left by a stream on the stream's channel or floodplain.
<b>all-weather road</b>	A paved or gravel, road that is open to traffic all year.
<b>anadromous species</b>	Fish that travel from the sea up freshwater streams to spawn.
<b>anchor fields</b>	The three natural-gas fields, Taglu, Parsons Lake and Niglintgak, whose production will provide the initial volume of gas shipped in the Mackenzie Valley pipeline.
<b>anthropogenic</b>	Materials made or modified by humans.
<b>APG</b>	The abbreviation for the Aboriginal Pipeline Group.

<b>appurtenances, pipeline</b>	A supplementary component, associated with and attached to a pipeline, that is necessary for safe and efficient operations. Common pipeline appurtenances include valves and valve control equipment, pigging facilities and cathodic protection apparatus.
<b>approach road</b>	A small roadway for the movement of vehicles and equipment from an existing road or highway, across a shoulder or ditch, to an abutting property of site.
<b>aquatic</b>	Growing in, living in, or frequenting water. Also, occurring, or situated in, or on, water.
<b>aquifer</b>	A water-saturated, permeable body of rock capable of transmitting substantial or usable quantities of groundwater to wells and springs under ordinary hydraulic gradients.
<b>archaeological site</b>	Where an archaeological artifact is found.
<b>backfill</b>	The fill material used to cover a completed pipeline. Adequate fill material is provided above and below the pipe to prevent damage caused by loose rock, abrasion, shifting or washouts.
<b>backhoe</b>	An excavating machine, fitted with a hinged arm with a rigidly attached bucket, used for excavating ditches.
<b>barge landing</b>	Location along a watercourse that is developed for the loading and unloading of cargo barges.
<b>baseline</b>	A surveyed condition that serves as a reference point to which later surveys or assessments are coordinated or correlated.
<b>BDR</b>	The abbreviation for Beaufort Delta Region.
<b>bedding</b>	The division of sediment or sedimentary rock into parallel layers (beds) that can be distinguished from each other by such features as chemical composition and grain size.
<b>bedrock</b>	The solid rock that underlies the soil and other unconsolidated material or that is exposed at the surface.
<b>bench</b>	A terrace of level earth or rock that is raised and narrow and that breaks the continuity of a descending slope.
<b>berm</b>	A mound or wall of earth.

<b>best management practice</b>	A practice or combination of practices that will be implemented by Imperial and considered to be an effective and practical (including technological, economical and regulatory considerations) means of planning, constructing, operating and decommissioning the project.
<b>BH</b>	The abbreviation for borehole.
<b>biocide</b>	A chemical additive that destroys biological contaminants.
<b>biophysical</b>	Referring to the air, noise, aquatic (groundwater, hydrology, water quality and fisheries) and terrestrial (soils, landforms, permafrost, vegetation and wildlife) conditions in the project area.
<b>block valve</b>	A device positioned at intervals along a pipeline that opens or shuts off the pipeline completely, or serves as an automatic or semi-automatic safety device.
<b>blowdown</b>	The act of emptying or depressurizing material in a vessel or pipes.
<b>blowdown valve</b>	A valve installed to depressurize the pipeline.
<b>bog</b>	Peatlands consisting primarily of sphagnum mosses, with poor nutrient status and acidic conditions.
<b>borehole</b>	The hole made by drilling or boring into the ground to study stratification, to obtain natural resources or to release underground pressures.
<b>borrow material</b>	Unconsolidated earth materials, such as sand, gravel and till, that are taken from one location (borrow pit) and used at another location.
<b>borrow pit</b>	An excavated area created to provide material that can be used as fill at another site.
<b>borrow site</b>	An area that could be excavated to provide material, such as gravel or sand, to be used as fill, where required, by the project.
<b>borrow source</b>	A location that has naturally occurring earth construction materials including sand, gravel, fine-grained material or rock. A borrow source may contain more than one borrow site.

<b>bridging documents</b>	Agreements created between organizations, company departments or contractors working on the same location. They document clear responsibilities for all parties involved in the event an emergency response is required for that location.
<b>browse</b>	Evidence of damage induced by feeding on the vegetation of the area by moose.
<b>brush</b>	Low growing, dense, multi-stemmed, woody shrubs (e.g. willow).
<b>BTEX</b>	The abbreviation for benzene, toluene, ethyl benzene, and xylene.
<b>carbonate</b>	One of several minerals containing one central carbon atom with strong covalent bonds to three oxygen atoms and typically having ionic bonds to one or more positive ions.
<b>cathodic protection</b>	A method of protecting a metal structure from corrosion by making its surfaces cathodic and controlling the location of anodic areas so that corrosion damage can be reduced to tolerable levels.
<b>CCME</b>	The abbreviation for the Canadian Council of Ministers of the Environment.
<b>centroid</b>	A point representing the centre of a site of irregular shape.
<b>CH<sub>4</sub></b>	The chemical formula for methane.
<b>characteristic species</b>	Wildlife species that are typically found in a certain area.
<b>cm</b>	The metric symbol for centimetre.
<b>CNT Trail</b>	Right-of way of the Canadian National Telegraph trail built in the 1940s for communication purposes.
<b>CO</b>	The chemical formula for carbon monoxide.
<b>CO<sub>2</sub></b>	The chemical formula for carbon dioxide.
<b>coarse gravel</b>	Particles of rock that will pass a 75 mm sieve and be retained on a 19 mm sieve.

<b>coarse sand</b>	Material that passes a No. 4 (4.75 mm) sieve and is retained on a No. 10 (2.00 mm) sieve.
<b>coating, pipe</b>	A material that forms a continuous film over the surface of a pipe, and that can be used internally or externally to prevent corrosion damage.
<b>colluvium</b>	The loose incoherent deposits at the foot of a slope, brought there principally by gravity.
<b>combined effects</b>	The total effect of the three anchor fields, the gathering system and the pipeline corridor.
<b>commissioning</b>	The act of charging a system and doing checkouts to ensure that equipment functions safely before start-up.
<b>compression, gas</b>	The process of increasing the pressure on gas to cause it to flow. Natural gas is usually compressed for pipeline transportation.
<b>compressor station</b>	A facility containing equipment that is used to increase pressure to compress natural gas for transportation in a pipeline.
<b>conductance</b>	The measure of electrical conductance in a water sample. Conductance is an indicator of salinity.
<b>coniferous forest</b>	Typically, evergreen trees or plants that are cone bearing, such as spruce trees.
<b>ConocoPhillips</b>	ConocoPhillips Canada (North) Limited.
<b>construction phase</b>	The phase of a project preceding the operations phase, during which project facilities and infrastructure are assembled and installed, and connected and tested to ensure that they operate as designed.
<b>continuous permafrost</b>	A category of permafrost where more than 90% of all ground is frozen. Permafrost distribution along the Mackenzie Valley varies from extensive and continuous in the north to discontinuous and sporadic in the south.
<b>COSEWIC</b>	The abbreviation for the Committee on the Status of Endangered Wildlife in Canada.
<b>CP</b>	The abbreviation for cathodic protection.

<b>critical habitat</b>	The habitat that is necessary for the survival or recovery of a listed wildlife species and that is identified as the species' critical habitat in the recovery strategy or in an action plan for the species, according to the <i>Species at Risk Act</i> .
<b>Crown lands</b>	Land owned and managed by the federal government of Canada. Occasionally, this term is used to refer to land that is owned and managed by the Northwest Territories territorial government. In the GSA, these are lands that are outside municipal boundaries and are neither privately owned nor Gwich'in settlement lands, as defined by the <i>Gwich'in Comprehensive Land Claim Agreement</i> .
<b>culvert</b>	A transverse and totally enclosed drain under a road.
<b>dam and pump</b>	A technique used for pipeline construction, at isolated trenched watercourse crossings, in which a dam blocks water flow upstream and downstream of the crossing and a pump moves the water around via hoses.
<b>DA</b>	The abbreviation for drainage area.
<b>dBA</b>	The abbreviation for decibel adjusted.
<b>DCR</b>	The abbreviation for the Deh Cho Region.
<b>deciduous</b>	Trees that lose their leaves at the end of each growing season.
<b>decommissioning</b>	The act of taking a processing plant or facility out of service and isolating equipment, to prepare for routine maintenance work, suspending or abandoning.
<b>deep anode groundbed</b>	A series of vertical anodes, installed in a drilled hole, that are used in place of shallow groundbeds, in situations where the soil resistivity is high at the surface.
<b>delta</b>	An alluvial fan having its apex at the mouth of a stream.
<b>demobilization</b>	The process of moving people, supplies and equipment from the work site to another location.
<b>denning site</b>	A location where a bear creates its den.

<b>deposit</b>	A naturally occurring accumulation of sand, gravel or other unconsolidated mixture with most of the particles in the sand and gravel grain size range.
<b>development activities</b>	All of the activities associated with the construction, commissioning, and operations of the Mackenzie Gas Project in the Gwich'in Settlement Area.
<b>DFO</b>	The abbreviation for the Department of Fisheries and Oceans Canada.
<b>DFO Protocol</b>	Criteria established by the Department of Fisheries and Oceans Canada to determine the suitability of lakes as potential water sources in the Northwest Territories.
<b>diadromous species</b>	Fish that migrate between salt and fresh waters.
<b>DIAND</b>	The abbreviation for the Department of Indian Affairs and Northern Development, predecessor to Indian and Northern Affairs Canada (INAC).
<b>direction</b>	Referring to an effect, the ultimate long-term trend of the effect. It can be adverse, neutral or positive, or a combination of these.
<b>directional drilling</b>	A drilling method in which the wellbore is intentionally steered from the vertical.
<b>discontinuous permafrost</b>	A category of permafrost where some of the underlying ground is unfrozen. Permafrost distribution along the Mackenzie Valley varies from extensive and continuous in the north to discontinuous and sporadic in the south.
<b>ditch plug</b>	Usually a bentonite (clay) mix that is placed inside the trench, surrounding the pipe. The plug is used to force groundwater to the surface or to limit subterranean movement of water within the pipeline trench.
<b>ditch, pipeline</b>	A long, narrow excavation dug in the earth in which a pipeline is buried. Also known as a trench.
<b>ditching</b>	The act of excavating trenches.
<b>dock</b>	A berth or wharf, or an artificially enclosed body of water, for loading and unloading ships and barges.

<b>domestic waste</b>	The waste products, such as sewage, typically generated in camps.
<b>DOT</b>	The abbreviation for the Department of Transportation of the Government of the Northwest Territories.
<b>double-handling</b>	The process of moving borrow material more than once.
<b>dragging</b>	The act of pulling an object behind a piece of equipment to level the driving surface on snow or ice. It helps to remove snow drifts or knock down ruts.
<b>drainage</b>	Water in a given surface area that flows off by stream or subsurface conduits.
<b>drumlin</b>	A long, spoon-shaped hill that develops when pressure from an overriding glacier reshapes a moraine. Drumlins range in height from 5.0 to 50 m and in length from 400 to 2,000 m. They slope down in the direction of the prehistoric glaciation ice flow.
<b>easement</b>	A written contractual agreement under which a company acquires the right to use land for a pipeline or power line. The agreement sets out the rights of the company and rights of the landowner for the use of the right-of-way.
<b>ECO<sub>2</sub></b>	The abbreviation for equivalent carbon dioxide value.
<b>ecological zone</b>	A regional ecological area used by the Mackenzie Gas Project to describe regional vegetation differences based on changes in climate, physiography, terrain, soil and permafrost with increasing latitude along the Mackenzie Valley. Also known as ecozone.
<b>ecoregion</b>	An ecological area that has broad similarities in soil, relief and dominant vegetation. Also referred to as an ecoclimatic region.
<b>EIS</b>	The abbreviation for environmental impact statement.
<b>emissions</b>	Substances discharged into the air, e.g., by a smokestack or an automobile engine.
<b>emissions, fugitive</b>	Emissions not caught by a capture system.
<b>EMP</b>	The abbreviation for environmental management plan.

<b>environment</b>	The components of the earth, including: <ul style="list-style-type: none"><li>• land, water and air, including all layers of the atmosphere</li><li>• all organic and inorganic matter and living organisms</li><li>• the interacting natural systems that include all components referred to in the previous bullets</li></ul>
<b>environmental effect</b>	For a project, any change that the project might cause in the biophysical environment. Also, any change to the project that might be caused by the environment.
<b>environmental impact assessment</b>	The process of evaluating the biophysical, social and economic effects of a proposed project.
<b>environmental impact statement</b>	The report containing the environmental impact assessment for the Mackenzie Gas Project, also known as the EIS.
<b>ephemeral watercourse</b>	A watercourse that is present for only a short time.
<b>erosion</b>	The wearing away of the land surface by running water, wind, ice or other geological agents, including such processes as gravitational creep.
<b>erratic</b>	Masses of stone (gravel, etc.) which have been transported from their original resting places by water, ice, or other causes.
<b>esker</b>	A winding ridge of irregularly stratified sand, gravel and cobbles, deposited under a glacier by a rapidly flowing glacial stream.
<b>excess ice</b>	The volume of ice in the ground which exceeds the total pore volume that the ground would have under natural unfrozen conditions.
<b>exotic species</b>	All species of plants and animals not naturally occurring, either presently or historically, in any ecosystem.
<b>facilities</b>	Structures of the gathering and gas pipeline systems, including compressor and pump stations, block valves, pigging facilities, heater stations and meter stations.

<b>fen</b>	Low land, such as peat land, that is wholly or partly covered by water, especially in the upper regions of old estuaries and around lakes. These areas do not drain naturally.
<b>fine gravel</b>	Particles of rock that will pass a 19 mm sieve and be retained on No. 4 (4.75 mm) sieve.
<b>fine sand</b>	Material that passes a No. 40 (0.425 mm) sieve and is retained on a No. 200 (0.075 mm) sieve.
<b>flume</b>	An open channel constructed of steel, reinforced concrete or wood.
<b>fluvial</b>	Relating to, or produced by, the action of a stream or river.
<b>footprint</b>	The amount and shape of an area disturbed by, for example, facility construction.
<b>forage</b>	Grasses, herbs and small shrubs that are used by wildlife for food.
<b>freeze depressant</b>	A material, usually a liquid such as methanol or glycol, added to a fluid to lower its freezing point.
<b>frost bulb</b>	A frozen zone, typically formed around a chilled pipe, in otherwise unfrozen ground.
<b>frost heave</b>	The lifting and distortion of a surface caused by the expansion of a volume of soil resulting from the formation of excess ice within the soil. The volume of ice in the frozen soil is greater than the pore volume of the initially thawed soil. Frost heave occurs where a chilled pipeline freezes moisture in the surrounding soil along an unfrozen span interval.
<b>fur bearer</b>	An animal whose coat, when dressed as a pelt, is of value in the marketplace.
<b>gas pipeline</b>	The proposed gas pipeline that would extend from the Inuvik area facility, parallel to the NGL pipeline along the Mackenzie River to Norman Wells, and continue south to connect to an extension of the existing Alberta system south of the Northwest Territories-Alberta boundary.
<b>gas, natural</b>	A compressible mixture of hydrocarbons with a low specific gravity that occurs naturally in a gaseous form and is mostly methane.

<b>gathering pipelines</b>	Four pipelines, also known as laterals, that transport natural gas and NGLs from the anchor fields to the Inuvik area facility. These include the Niglintgak lateral, Taglu lateral, Parsons Lake lateral and Storm Hills lateral.
<b>gathering system</b>	A system of pipelines and associated facilities that includes four gathering pipelines, the Inuvik area facility, the NGL pipeline and related facilities, such as valves, pig launchers and receivers.
<b>geographic information system</b>	A system that uses computers to manage information concerning geographical locations, plant assets, engineering, maintenance and operational performance (also known as GIS).
<b>geotechnical</b>	Referring to the use of scientific methods and engineering principles to acquire, interpret, and apply knowledge of earth materials for solving engineering problems.
<b>geotextile liner</b>	Flexible, permeable fabrics used for filtration and erosion control purposes to prevent sediments and other substances from entering watercourses.
<b>geothermal</b>	Pertaining to heat within the earth.
<b>GHG</b>	The abbreviation for greenhouse gases.
<b>GIS</b>	The abbreviation for geographic information system.
<b>GLA</b>	The abbreviation for Gwich'in Land Administration.
<b>glacial till</b>	The unsorted sedimentary material, consisting of a mixture of clay, silt, sand, gravel and boulders, that is deposited directly from glacial ice and therefore not sorted. Also known as till or glacial drift.
<b>glaciofluvial</b>	Land feature whose origin is related to the processes associated with glacial meltwater.
<b>glaciofluvial materials</b>	The material moved by glaciers and subsequently sorted and deposited by streams flowing from the melting ice.
<b>glaciolacustrine</b>	Related to lakes fed by melting glaciers, or to the deposits forming in the lakes.
<b>GLUPB</b>	The abbreviation for the Gwich'in Land Use Planning Board.

<b>GLWB</b>	The abbreviation for the Gwich'in Land and Water Board.
<b>glycol</b>	A group of compounds, such as ethylene glycol and diethylene glycol, used to dehydrate gaseous or liquid hydrocarbons, to inhibit the formation of hydrates, or to cool fluids (liquid or gas), by acting as a heat transfer medium.
<b>GNWT</b>	The abbreviation for the Government of the Northwest Territories.
<b>GPR</b>	The abbreviation for ground-penetrating radar.
<b>GPS</b>	The abbreviation for global positioning system.
<b>grading, pipeline</b>	The process of constructing a work area to facilitate moving personnel, equipment and material onto and along a right-of-way. The process includes levelling, cutting and filling. The travel surface is similar to a winter road.
<b>granular resources</b>	The material deposits that have a granulated surface or structure, such as gravel. Also known as granular material or borrow material.
<b>gravel</b>	Particles of rock that will pass a 75 mm sieve and be retained on a NO. 4 (4.75 mm) sieve.
<b>gravimetric</b>	Relating to measurement by weight.
<b>gray water</b>	Wastewater from laundry, showers, sinks and kitchens.
<b>ground bed</b>	In cathodic protection, an interconnected group of impressed-current anodes that absorbs the damage caused by generated electric current. An impressed-current anode is an anode to which an external source of positive electricity is applied.
<b>ground ice</b>	A general term referring to all types of ice contained in freezing and frozen ground.
<b>ground-truthing survey</b>	Measuring various properties, such as temperature and land use, conducted on the ground to validate or calibrate observations made from satellites or aircraft.
<b>groundwater</b>	The water within the earth that supplies water wells and springs.
<b>GRRB</b>	The abbreviation for the Gwich'in Renewable Resource Board.

<b>GSA</b>	The abbreviation for the Gwich'in Settlement Area.
<b>GSC</b>	The abbreviation for the Geological Survey of Canada.
<b>GSCI</b>	The abbreviation for the Gwich'in Social and Cultural Institute.
<b>GTC</b>	The abbreviation for Gwich'in Tribal Council.
<b>ha</b>	The metric symbol for hectare.
<b>habitat</b>	The place or environment where a plant or animal naturally and normally lives and grows.
<b>hardness</b>	A measure of the amount of alkaline earth compounds, such as calcium and magnesium, dissolved in water.
<b>HDD</b>	The abbreviation for horizontal directional drilling.
<b>heater station</b>	A facility where natural gas is heated to prevent the formation of hydrates, or the freezing of unfrozen ground.
<b>helipad</b>	A cleared landing area for helicopters, located at camps and facilities.
<b>heritage resources</b>	Cultural, historic, archaeological and paleontological resources, including pre-contact and post-contact features.
<b>horizontal directional drilled crossing</b>	A water crossing constructed using a pipeline construction technique in which an inverted arc-shaped hole is drilled beneath the river and the preassembled pipeline is pulled through it. Also known as a trenchless crossing.
<b>HRSDC</b>	The abbreviation for the federal department of Human Resources Skills Development Canada.
<b>HSS</b>	The abbreviation for the GNWT Department of Health and Social Services.
<b>human environment effect</b>	Any effect of the project on a social or economic condition or service, including direct effects as well as effects resulting from a change in the environment.
<b>human health</b>	A state of complete physical, mental and social well-being, and the ability to adapt to the stresses of daily life.

<b>hummock</b>	A rounded or conical mound or hillock, generally of equal dimensions and not ridge-like.
<b>hummocky moraine</b>	A strongly undulating surface of ground moraine, with a relative relief of up to 100 m, and showing steep slopes and deep, enclosed depressions.
<b>hydraulics</b>	The branch of engineering concerned with the mechanics of fluids, especially liquids.
<b>hydrocarbons</b>	The compounds of hydrogen and carbon whose densities, boiling points, and freezing points increase as their molecular weights increase. Petroleum is a mixture of many different hydrocarbons.
<b>hydrology</b>	The science that treats the occurrence, circulation, distribution and properties of the waters of the earth and their reaction with the environment.
<b>hydrostatic testing</b>	A quality control check of the structural soundness of a pipeline or facility. In this test, the line is filled with a test fluid mixture and pressurized. The pressure is maintained for a specific period of time. Any ruptures or leaks revealed by the test are repaired. The test is repeated until no problems are noted. Also known as pressure testing.
<b>ice content</b>	<p>The amount of ice contained in frozen or partially frozen soil or rock. Ice content is normally expressed in one of two ways:</p> <ul style="list-style-type: none"><li>• dry-weight basis (gravimetric), as the ratio of the mass of the ice in a sample to the mass of the dry sample, expressed as a percentage</li><li>• volume basis (volumetric), as the ratio of the volume of ice in a sample to the volume of the whole sample, expressed as a fraction</li></ul> <p>The volumetric ice content cannot exceed one, whereas the gravimetric ice content can greatly exceed 100%.</p>
<b>ice lenses</b>	A dominantly horizontal, lens-shaped body of ice of any dimension. The term is commonly used for layers of segregated ice. Ice lenses can range in thickness from hairline to more than 10 m. Thick, extensive ice lenses are better termed massive ice beds.

<b>ice road</b>	A road made of compact snow or ice, often plowed over a frozen lake or ground, and that is impassable in the summer. Also known as winter road.
<b>ice wedge</b>	A massive, generally wedge-shaped body with its apex pointing downward, composed of foliated or vertically banded ice. The size varies from 10 cm to 3.0 m wide at the top, tapering to a feather-edge at a depth of 1.0 to 10 m.
<b>ice, excess</b>	The volume of ice in the ground that exceeds the total pore volume the ground would have under natural unfrozen conditions.
<b>ice, ground</b>	All types of ice contained in freezing and frozen ground.
<b>ice, massive</b>	Large masses of ground ice, including ice wedges, pingo ice, buried ice and large ice lenses.
<b>ice, pore</b>	Ice occurring in the pores of soils and rocks.
<b>ice, segregated</b>	Ice formed by the migration of pore water to the freezing plane where it forms into discrete lenses, layers, or seams ranging in thickness from hairline to 10 m. It commonly occurs in alternating layers of ice and soil.
<b>ice, vein</b>	Ice of any origin occupying cracks in permafrost, and occurring as horizontal layers or lenses, tabular sheets, wedges and reticulate nets.
<b>Imperial</b>	Imperial Oil Resources Ventures Limited.
<b>INAC</b>	The abbreviation for Indian and Northern Affairs Canada.
<b>incident</b>	A specific unplanned event or sequence of events that has an unwanted and unintended effect on people's safety or health, on property or the environment, or on regulatory compliance.
<b>infrastructure</b>	The basic facilities, such as transportation, communications, power supplies and buildings, that enable an organization, project or community to function.
<b>Inuvik area facility</b>	The processing facility to be located near Inuvik where gas and liquids will be processed and separated, then delivered to the gas and NGL pipelines.

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<b>invasive species</b>	An introduced species that out competes native species for space and resources.
<b>I-O model</b>	The abbreviation for Statistics Canada's inter-regional input-output model.
<b>IRHSSA</b>	The abbreviation for Inuvik Regional Health and Social Services Authority.
<b>isolated open-cut water crossing</b>	A type of water crossing technique in which a culvert or flume is laid across the watercourse to house the pipe and reduce the disruption to the aquatic resources.
<b>ISR</b>	The abbreviation for the Inuvialuit Settlement Region.
<b>IUCN</b>	The abbreviation for IUCN–The World Conservation Union.
<b>JRP</b>	The abbreviation for joint review panel.
<b>kame</b>	A deposit, composed largely of material sorted by moving water, formed in direct contact with glacier ice.
<b>kame delta</b>	A deposit, often triangular, formed where a glacial stream entered into a proglacial lake. The ice-contact margin of the kame delta is often slumped and mixed with till.
<b>kame terrace</b>	A deposit, often sloping down-valley more steeply than the valley floor, formed as a deposit between a melting glacier or stagnant ice lobe and a higher valley wall or lateral moraine and left standing after the ice disappears. The ice content margin of the kame terrace is often slumped and mixed with till.
<b>karst</b>	Topography characterized by caves, sinkholes, disappearing streams, and underground drainage. Karst forms when groundwater dissolves pockets of limestone, dolomite, or gypsum in bedrock.
<b>keq</b>	An air quality unit that refers to the number of equivalent hydrogen ions. One keq = one kmol H <sup>+</sup> . For sulphur, one molecule is equivalent to two hydrogen ions. Each molecule of nitrogen is equivalent to one hydrogen ion.
<b>kettle</b>	A basin or bowl-shaped depression in surficial materials often containing a lake that was formed by the melting of a detached block of stagnant ice that was buried in the morainal deposit.

<b>key indicator</b>	A factor used to measure the status of a valued component.
<b>kg</b>	The metric symbol for kilogram.
<b>kilometre post</b>	A marker for each kilometre along the centerline of the right-of-way used for reference points.
<b>km</b>	The metric symbol for kilometre.
<b>km<sup>2</sup></b>	The metric symbol for square kilometres.
<b>KP</b>	The abbreviation for kilometre post.
<b>L</b>	The metric symbol for litre.
<b>L/d</b>	The metric symbol for litres per day.
<b>large watercourse</b>	A water channel that appears with a name on 1:50,000 Government of Canada topographic maps and has perennial flow.
<b>lateral</b>	A gathering pipeline that connects the production area facilities to the Inuvik area facility.
<b>lateral, pipeline</b>	A pipe that branches away from the central and primary part of the system.
<b>laydown area</b>	An area for placing pipe or tubing in a horizontal position on a pipe rack, or for storing other construction materials temporarily.
<b>L<sub>eq</sub></b>	<p>The symbol for energy equivalent sound level.</p> <p>The single number descriptor commonly used in most international standards for environmental sound measurements. The L<sub>eq</sub> value, expressed in dBA, is the energy-averaged, a weighted sound level for the complete measurement interval.</p>
<b>limestone</b>	A sedimentary rock composed primarily of calcium carbonate.
<b>line pipe</b>	Sections of pipe that can be welded together to form a pipeline.
<b>logistics</b>	The activities associated with procuring, maintaining and transporting materials, equipment and personnel.

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<b>longitudinal dune</b>	One of a series of long, narrow dunes lying parallel both to each other and to the prevailing wind direction. Longitudinal dunes range from 60 m to 100 km in length and from 3.0 to 50 m in height.
<b>m</b>	The metric symbol for metre.
<b>m<sup>3</sup></b>	The metric symbol for cubic metre.
<b>MACA</b>	The abbreviation for the GNWT Department of Municipal and Community Affairs.
<b>Mackenzie Gas Project</b>	A project that will develop three onshore natural gas anchor fields in the Mackenzie Delta and transport natural gas by pipeline to market in northwestern Alberta by 2009. The project comprises the anchor fields, wells, gathering pipelines and associated facilities, work camps, material stockpiling and shipping sites, roads, borrow sites and other associated infrastructure.
<b>Mackenzie Valley pipeline</b>	The proposed gas pipeline that would extend from the Inuvik area facility, parallel to the NGL pipeline along the Mackenzie River to Norman Wells, and continue south to connect to an extension of the NOVA Gas Transmission Ltd. system south of the Northwest Territories–Alberta boundary. Also known as the gas pipeline.
<b>magnitude</b>	Relating to an effect, the severity or intensity of the effect. It is rated as low, moderate or high.
<b>massive ice</b>	A comprehensive term used to describe large masses of ground ice, including iced wedges, pingo ice, buried ice and large ice lenses.
<b>MCC</b>	The abbreviation for main control centre.
<b>medium sand</b>	Material that passes a No. 10 (2.00 mm) sieve and is retained on a No. 40 (0.425 mm) sieve.
<b>mesotrophic</b>	A waterbody with a moderate level of nutrients, i.e., sustaining a moderate abundance of algae.
<b>meter</b>	An instrument for measuring and indicating, or recording, the volume of natural gas or NGL that has passed through it.

<b>meter station</b>	A facility where the flow of gas or natural gas liquids is recorded. Meter stations are located at key transfer points, such as the Inuvik area facility, where natural gas flows from the gathering system to the Mackenzie Valley pipeline and NGLs to the NGL pipeline.
<b>mitigation</b>	The elimination, reduction, or control of adverse effects, or damage to the environment through avoidance, replacement, restoration, compensation or other means.
<b>mixedwood forest</b>	A forest that includes deciduous and coniferous trees.
<b>mm</b>	The metric symbol for millimetre.
<b>mobile camp</b>	The front-end camps that accommodate the initial workforce involved in pre-construction activities.
<b>mobilization</b>	The movement of people or equipment to the work site.
<b>modular fabrication</b>	The process of assembling components into larger constructed modules in areas remote from the construction site. Also known as <i>modularization</i> .
<b>modularization</b>	The process of assembling components into larger constructed modules in areas remote from the construction site. Also known as <i>modular fabrication</i> .
<b>module</b>	A standardized part or independent self-contained unit of facilities or structures, such as buildings, used in construction. The modules are generally prefabricated and packaged in manageable sizes and weights for ease of transportation and assembly on site.
<b>monitoring</b>	Periodic inspection to observe and report on compliance with approved conditions, confirm effectiveness of approved protective measures, verify the accuracy of impact predictions, and identify any effects not predicted in the impact assessment.
<b>moraine</b>	An accumulation of glacial drift deposited by a glacier.
<b>MSDS</b>	The abbreviation for material safety data sheets.
<b>muskeg</b>	A water-soaked layer of decaying plant material, 1 to 3 m thick, on top of the overburden. Muskeg supports the growth of shallow root trees, such as black spruce and tamarack.

<b>mutual aid agreements</b>	Agreements made among companies working in the same areas and other agencies as required. These agreements list the type of response equipment and resources the companies are willing to supply in the event of an emergency. These agreements are typical in the oil and gas industry where sharing of equipment and resources may be required.
<b>MVLUR</b>	The abbreviation for Mackenzie Valley Land Use Regulations.
<b>MVLWB</b>	The abbreviation for the Mackenzie Valley Land and Water Board.
<b>MVRMA</b>	The abbreviation for the <i>Mackenzie Valley Resource Management Act</i> .
<b>N/A</b>	The abbreviation for not applicable.
<b>N<sub>2</sub></b>	The chemical formula for nitrogen.
<b>N<sub>2</sub>O</b>	The chemical formula for nitrous oxide.
<b>native seed</b>	A seed that is native to the ecological region being considered.
<b>natural gas</b>	A compressible mixture of hydrocarbons with a low specific gravity that occurs naturally in a gaseous form and is mostly methane.
<b>natural gas liquids</b>	Hydrocarbons that are gaseous in the reservoir, but that will separate out in liquid form at the pressures and temperatures at which separators normally operate. The liquids consist of varying proportions of butane, propane, pentane and heavier fractions.
<b>NEB</b>	The abbreviation for the National Energy Board.
<b>NGL</b>	The abbreviation for natural gas liquid.
<b>NGL pipeline</b>	The pipeline connecting the Inuvik area facility with the Enbridge Pipeline facilities at Norman Wells.
<b>NGTL</b>	The abbreviation for NOVA Gas Transmission Ltd.
<b>Niglintgak field</b>	The anchor field to be developed by Shell Canada Limited, which includes three well pads, one gas conditioning facility, flow lines and supporting infrastructure. The gas conditioning facility might be barge-based or land-based.

<b>Niglintgak lateral</b>	The gathering pipeline connecting the Niglintgak gas conditioning facility to a connection point on the Taglu lateral at the outlet of the Taglu gas conditioning facility.
<b>NO<sub>2</sub></b>	The chemical formula for nitrogen dioxide.
<b>NO<sub>x</sub></b>	The chemical formula for oxides of nitrogen.
<b>nominal pipe size</b>	The outside diameter of a pipe, expressed in inches (also known as NPS).
<b>non-furbearing mammals</b>	Mammals whose pelts have little economic value, and therefore are not typically trapped for their fur.
<b>non-granular (NG)</b>	Non-granular material including sands, silts, and cohesive soils. It is unsuitable for most construction purposes, except non-structural fills.
<b>non-native species</b>	A species that is not native to the ecological region being considered.
<b>normals, temperature</b>	Long- term average conditions of temperature.
<b>NPS</b>	The abbreviation for nominal pipe size.
<b>NTS</b>	The abbreviation for not to scale.
<b>nutrient</b>	An environmental substance, i.e. element or compound, such as nitrogen or phosphorus, that is necessary for the growth and development of plants and animals.
<b>NW</b>	The abbreviation for northwest.
<b>NWT</b>	The abbreviation for the Northwest Territories (also known as NT).
<b>NWTWB</b>	The abbreviation for the Northwest Territories Water Board.
<b>O&amp;M</b>	The abbreviation for Operations and Maintenance.
<b>O<sub>3</sub></b>	The chemical formula for ozone.
<b>OD</b>	The abbreviation for outside diameter.
<b>OhmMapper</b>	A geophysical survey method using electrical resistivity.

<b>oligotrophic</b>	Refers to a waterbody that contains low levels of nutrients, i.e. sustains a low level of algae.
<b>open-cut water crossing</b>	A type of water crossing technique that involves crossing a watercourse by cutting directly through it to lay the pipe.
<b>operations phase</b>	The phase of a project during which the pipeline and associated facilities are operated.
<b>organic clay</b>	A soil that would be classified as clay except that its liquid limit value after oven-drying is less than 75% of its liquid limit value before oven-drying. It has sufficient organic content to influence the soil properties.
<b>organic cover</b>	The organic fraction of the soil that includes plant and animal residues in various stages of decomposition, cells and tissues of soil organisms, and substances synthesized by the soil population.
<b>organic silt</b>	A soil that would be classified as silt except that its liquid limit value after oven-drying is less than 75% of its liquid limit value before oven-drying. It has sufficient organic content to influence the soil properties.
<b>outwash plain</b>	A plain of glaciofluvial deposits of stratified drift from meltwater-fed, braided, and overloaded streams beyond a glacier's morainal deposits.
<b>overburden</b>	All material, including soil, sand, silt or clay, that lies on top of the pipeline.
<b>overpressure protection equipment</b>	Valves that mechanically monitor pressure and automatically close if a predetermined pressure is exceeded.
<b>overwintering habitat</b>	The habitat used during the winter as a refuge and for feeding.
<b>oxygen scavenger</b>	A chemical additive that removes dissolved oxygen from fluid systems.
<b>ozone</b>	A form of oxygen formed naturally in the upper atmosphere by a photochemical reaction with solar ultraviolet radiation.
<b>PAI</b>	The abbreviation for potential acid input.

<b>palaeontological sites</b>	Sites bearing evidence of multi-cellular invertebrate and vertebrate faunal remains, and plant materials that have been fossilized or otherwise preserved.
<b>Parsons Lake field</b>	The anchor field to be developed by ConocoPhillips Canada (North) Limited and ExxonMobil Canada Properties. Initially, the field will consist of the north pad, which will have one pad for the well sites and gas conditioning facility. A second well pad will be developed five to 10 years after the north pad.
<b>Parsons Lake lateral</b>	The gathering pipeline connecting the Parsons Lake gas conditioning facility to a connection point at the Storm Hills pigging facility.
<b>Particulate matter, respirable</b>	Fine particulate matter that is small enough to be breathed deeply into the respiratory tract.
<b>passerine</b>	Any perching bird of the order Passeriformes, having feet with three toes pointing forward and one pointing backward, including sparrows and most land birds.
<b>peat</b>	Material composed primarily of vegetable tissues in various stages of decomposition, usually with an organic odour, a dark brown to black colour, a spongy consistency, and a texture ranging from fibrous to amorphous.
<b>perennial spring</b>	A spring that flows continuously throughout the year.
<b>permafrost</b>	Perennially frozen ground, occurring wherever the temperature remains below 0°C for several years.
<b>permafrost, continuous</b>	A category of permafrost where more than 90% of all ground is frozen.
<b>permafrost, discontinuous</b>	A category of permafrost where some of the underlying ground is unfrozen.
<b>permafrost, friable</b>	Permafrost in which the ice bonding between soil particles is very weak or nonexistent.
<b>permafrost, ice-bonded</b>	Ice-bearing permafrost in which the soil particles are cemented together by ice.
<b>permafrost, poorly-bonded</b>	Ice-bearing permafrost in which few of the soil particles are held together by ice.

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<b>permafrost, well-bonded</b>	Ice-bearing permafrost in which all the soil particles are held together by ice.
<b>permeability</b>	The capacity of a porous rock, soil or sediment for transmitting a fluid without damage to the structure of the medium.
<b>pH</b>	The measure of relative acidity or alkalinity of a liquid.
<b>physiognomic</b>	Based on the external appearance, physical structure or growth form of a plant or plant community.
<b>pig</b>	An in-line scraper, i.e., brush, blade cutter, ball or swab, that is forced through a pipeline by fluid pressure, to remove scale, sand, water and other foreign matter from the interior surface of a pipeline.
<b>pig launcher</b>	A facility on the pipeline for inserting and launching a pig.
<b>pig receiver</b>	A piping arrangement whereby an incoming pig can be diverted into a receiving cylinder, isolated and then removed.
<b>pig trap</b>	A device that traps a pig, once it has been pushed through a pipeline.
<b>pig, smart</b>	An inspection tool that is equipped with data-collection devices that relay detailed information about a pipeline, such as corrosion, wrinkles, thin sections and cracks.
<b>pigging</b>	The act of pushing a device through a pipeline to physically clean deposits from the inner surface of the pipeline, remove liquids, or monitor.
<b>pigging facilities</b>	Receivers and launchers for the pipeline in-line inspection and cleaning tool.
<b>pipe rack</b>	Horizontal supports for oilfield tubular goods, such as casing, including liners, drill pipe, tubing and line pipe.
<b>pipeline corridor</b>	The 1-km-wide area, defined for the purpose of the EIS biophysical baseline and effects assessment studies, that centres on the combined right-of-way for the gas and NGL pipelines, from the Inuvik area facility south to the NGTL interconnect facility.
<b>pit run material</b>	Material as found in natural deposits.

<b>plain</b>	A level or very gently sloping, unidirectional (planar) surface with gradients up to and including 3° (5%). Local surface irregularities generally have a relief of less than 1 m.
<b>plasticity</b>	Putty-like behaviour of soil when wet, which affects workability.
<b>PM<sub>2.5</sub></b>	Respirable particulate matter.
<b>poorly-bonded permafrost</b>	Ice-bearing permafrost in which few of the soil particles are held together by ice.
<b>pore ice</b>	Ice occurring in the pores of soils and rocks.
<b>potable water</b>	Water with qualities that are suitable or could be readily made suitable for human consumption.
<b>POTC</b>	The abbreviation for the Pipeline Operations Training Committee.
<b>potential acid input</b>	The sum of the wet and dry deposition of sulphur and nitrogen compounds that have the potential to contribute to acidification of the receiving environment. Also known as PAI.
<b>ppm</b>	The abbreviation for parts per million.
<b>precipitation</b>	Any or all forms of water particles, whether liquid or solid, that fall from the atmosphere and reach the ground.
<b>prehistoric archaeological resources</b>	Archaeological sites, objects and affiliated materials that represent occupation by Aboriginal peoples before the arrival of European goods, people and the historic records that characterize their culture (in North America).
<b>pressure testing</b>	A control check of the structural soundness of a pipeline or facility. In this test, the line is filled with water or a glycol-water mixture and pressurized. This pressure is maintained for a specific period of time. Any ruptures or leaks revealed by the test are repaired. The test is repeated until no problems are noted. Also known as hydrostatic testing.
<b>private lands</b>	The term used in this application to refer to Gwich'in settlement land, as defined in the <i>Gwich'in Comprehensive Land Claim Agreement</i> .

<b>probable reserves</b>	Granular material whose existence and extent has been inferred on the basis of several different types of direct or indirect evidence, including topography, landform characteristics, airphoto interpretation, extrapolation of stratigraphy, geophysical data, and/or sampling.
<b>processing facility</b>	A facility designed to dehydrate and condition raw gas for transport through the gathering system.
<b>procurement</b>	The activities that must take place to obtain, on schedule and at optimum price, materials or services needed to construct a project.
<b>production</b>	The operation of bringing raw natural gas to the surface for processing.
<b>production area</b>	The area that encompasses all project components located north of the Inuvik area facility, including the Niglintgak, Taglu and Parsons Lake fields, the gathering pipelines and associated facilities, infrastructure, and the 1-km-wide buffer area surrounding each of these project components, defined for the purpose of the EIS biophysical baseline and effects assessment studies.
<b>project proponents</b>	The five organizations (Imperial Oil Resources Ventures Limited, APG, ConocoPhillips Canada (North) Limited, Shell Canada Limited and ExxonMobil Canada Properties) that are undertaking the Mackenzie Gas Project.
<b>project, the</b>	The abbreviation for the Mackenzie Gas Project.
<b>pup joint</b>	A length of drill or line pipe, tubing or casing shorter than 6.26 m.
<b>PWNHC</b>	The abbreviation for the Prince of Wales Northern Heritage Centre.
<b>Q1</b>	The abbreviation for the first quarter of the year (January 1 to March 31).
<b>Q2</b>	The abbreviation for the second quarter of the year (April 1 to June 30).
<b>Q3</b>	The abbreviation for the third quarter of the year (July 1 to September 30).
<b>Q4</b>	The abbreviation for the fourth quarter of the year (October 1 to December 31).

<b>quarry site</b>	A surface location from which rock and similarly large sized borrow materials are excavated.
<b>raptor</b>	A bird of prey that is known for its predatory habits of feeding on other animals.
<b>raw natural gas</b>	Natural gas from the ground that has not been processed. Raw natural gas consists of natural gas and natural gas liquids, water and other non-commercial fluids.
<b>RCMP</b>	The abbreviation for the Royal Canadian Mounted Police.
<b>reclamation</b>	The process of re-establishing a disturbed site to a former or other productive use, not necessarily to the same condition that existed before disturbance. The land capability may be at a level different, i.e., lower or higher, than that which existed before the disturbance, depending on the goal of the process. Reclamation includes the management of a contaminated site and revegetation, where necessary. Reclamation is not considered complete until the goals for reclamation have been achieved.
<b>reconnaissance survey</b>	A high-level biophysical survey that does not include a detailed sample regime.
<b>repeater tower</b>	A tower with a repeater used to transmit mobile and remote radio signals over a larger area.
<b>reserves, probable</b>	Granular material whose existence and extent has been inferred on the basis of several different types of direct or indirect evidence, including topography, landform characteristics, airphoto interpretation, extrapolation of stratigraphy, geophysical data, and sampling.
<b>reserves, proven</b>	Granular material whose occurrence, distribution, thickness and quality is supported by ground-truth information, such as geotechnical drilling, test pitting, and exposed stratigraphic sections.
<b>residual effects</b>	Environmental or human environmental effects that remain after mitigation. Effects that are present after mitigation has been applied.
<b>revegetation</b>	The process of providing denuded land with a new cover of plants.

<b>right-of-way</b>	The pipeline easement in which the pipeline will be installed and operated. The pipeline right-of-way width for the project will vary from 30 to 50 m, depending on pipe size and the number of pipes to be installed in the trench.
<b>riparian</b>	Situated or dwelling on the margin of a river or other waterbody.
<b>ripping</b>	Mechanically breaking up frozen or consolidated ground in preparation for excavation.
<b>rip-rap</b>	A loose assemblage of broken stones erected in water, on a water bank or on soft ground as a foundation and for erosion protection. Also refers to a road made of logs (corduroy road) laid crosswise to the direction of travel.
<b>riser</b>	A vertical piece of equipment rising from an underground pipeline to the surface to allow for the control of valves and similar appurtenances.
<b>ROW</b>	The abbreviation for right-of-way.
<b>RRC</b>	The abbreviation for renewable resources council.
<b>RWED</b>	The abbreviation for the Department of Resources, Wildlife, and Economic Development, GNWT.
<b>sand</b>	Particles of rock between 0.062 and 2.0 mm in diameter.
<b>sandstone</b>	A clastic rock composed of particles that range in diameter from 0.062 to 2.0 mm. About 25% of all sedimentary rocks are sandstones.
<b>SARA</b>	The abbreviation for the <i>Species at Risk Act</i> .
<b>SCADA</b>	Supervisory control and data acquisition.
<b>scalping</b>	The removal or scraping of a layer by a bulldozer, grader or similar machinery.
<b>scarify</b>	Physical disturbance of compacted site surface material without actually turning it over, generally used as an aid to reclamation and revegetation efforts.
<b>scarp</b>	The steep cliff face that is formed by a slump.

<b>scour</b>	The erosion within a stream bed caused by the flow of water or ice.
<b>SCP</b>	The abbreviation for spill contingency plan.
<b>scrubber</b>	A device that uses a liquid to remove solid or liquid particles from a gas stream.
<b>sedimentary rock</b>	A rock made from the consolidation of solid fragments, of other rocks.
<b>segregated ice</b>	Ice formed by the migration of pore water to the freezing plane where it forms into discrete lenses, layers, or seams ranging in thickness from hairline to greater than 10 m.
<b>SEIA</b>	The abbreviation for socio-economic impact assessment.
<b>select backfill</b>	Specifically chosen material usually used during the first step of the backfill process to minimize damage to the pipe and the protective coating. Usually sand, small diameter gravel or sifted spoil material.
<b>shale</b>	A sedimentary rock composed of detrital sediment particles less than 0.004 mm in diameter. Shales may be red, brown, black, or gray.
<b>Shell</b>	The abbreviation for Shell Canada Limited.
<b>shoofly, pipeline</b>	A temporary road used to access the right-of-way from an existing road or access point.
<b>shutdown</b>	The act of stopping work temporarily or stopping a machine or piece of equipment in operation.
<b>sidebend</b>	A bend in the pipe that is mirrored by a deviation in the linear profile of the pipeline right-of-way. The larger the bend angle, the more temporary workspace that is required to accommodate the resulting decreases in the right-of-way workspace.
<b>sideslope</b>	A lateral surface slope across a road or right-of-way providing an uneven slope.

<b>silt</b>	A soil composite with particles that pass a No. 2 (0.075mm) sieve. A fine-grained soil, or the fine-grained portion of a soil, with a plasticity index less than 4. It is non-plastic or very slightly plastic and exhibits little or no strength when air dry.
<b>silt, organic</b>	A soil that would be classified as silt except that its liquid limit value after oven-drying is less than 75% of its liquid limit value before oven-drying. It has sufficient organic content to influence the soil properties.
<b>site-specific operating procedures</b>	A series of steps to be carried out in a given order for a job or task at a specific facility or field.
<b>skid</b>	A plank or roller on which a heavy object is placed to facilitate moving.
<b>slash</b>	Woody debris, e.g., limbs and branches, that is removed from large timber.
<b>slug catcher</b>	A vessel or series of pipes to collect liquids at the inlet of a pipeline facility, such as a compressor station.
<b>slump</b>	A type of landslide characterized by the downward slipping of a mass of rock or unconsolidated debris, moving as a unit or several subsidiary units, characteristically with backward rotation on a horizontal axis parallel to the slope. Slumping is common on natural cliffs and banks and on the sides of artificial cuts and fills.
<b>SO<sub>2</sub></b>	The chemical formula for sulphur dioxide.
<b>soil</b>	The top few metres of helipfur, generally including some organic matter derived from plants.
<b>span lengths</b>	The occurrence and length of unfrozen and frozen soil intervals.
<b>spawning habitat</b>	A particular type of area where a fish species chooses to reproduce. Preferred habitat (substrate, water flow, temperature) varies from species to species.
<b>species</b>	A group of organisms that actually or potentially interbreed and are reproductively isolated from all other such groups, i.e., a taxonomic grouping of genetically and morphologically similar individuals. It is the taxonomic category below genus.

<b>species at risk</b>	An extirpated, endangered or threatened species or a species of special concern, as defined in the <i>Species at Risk Act</i> .
<b>spoil</b>	Subsoil material that is excavated from a pipeline trench and from areas subject to grading, and that is to be kept separate from surface soil.
<b>spoil side</b>	The side of the pipeline right-of-way on which spoil material is stored. Generally on the opposite side of the construction activities.
<b>spread</b>	A designated length of pipeline construction that is intended to be constructed by a single pipeline contractor over a single construction season.
<b>spud barge</b>	A barge that carries a crane or other similar equipment, which can be firmly grounded at the edge of the water, to act as a temporary dock to facilitate the offloading of cargo barges.
<b>SSA</b>	The abbreviation for the Sahtu Settlement Area.
<b>staging area</b>	An area used by migratory birds to prepare for, or rest during, migratory flights.
<b>staging site</b>	A location where equipment is stored, maintained or readied for work.
<b>stakeholders</b>	People or organizations with an interest in, or who are affected by, or share in an undertaking, such as the Mackenzie Gas Project.
<b>start-up</b>	The act of starting up new machinery or equipment after commissioning, or re-starting machinery or equipment after a temporary shutdown or decommissioning.
<b>STI</b>	The abbreviation for sexually transmitted infections.
<b>stockpile</b>	A supply of materials, such as line pipe or granular materials, to be used later.
<b>Storm Hills lateral</b>	The gathering pipeline connecting the Storm Hills pigging facility to a connection point at the inlet of the Inuvik area facility.
<b>stratosphere</b>	A layer of atmospheric air above the troposphere and below the mesosphere extending to about 55 km above the earth's surface, where the temperature begins to increase with altitude.

<b>stringing</b>	The process of delivering and distributing line pipe and joints where and when they are needed along the right-of-way. Pipe is strung to prevent the movement of people, animals and vehicles from being impeded.
<b>study area</b>	The area that was examined as part of the biophysical and heritage resource field programs for the Mackenzie Gas Project, generally within 500 m of a proposed development.
<b>subdrain</b>	A pervious backfilled trench containing a pipe with perforations or gravel for the purpose of intercepting groundwater or seepage and directing it away from the pipeline trench.
<b>subsidence</b>	Occurs when the soil replaced over the pipeline ditch line sinks lower than the natural grade and could create a channel for water movement along the ditch line.
<b>sweet natural gas</b>	A gas that has very little or no sulphur content.
<b>t</b>	The metric symbol for tonne.
<b>Taglu field</b>	The anchor field to be developed by Imperial Oil Resources Limited, consisting of one site that will include the well pads, gas conditioning facility, flow lines and supporting infrastructure.
<b>Taglu lateral</b>	The gathering pipeline connecting the Taglu field pad facility to a connection point at the Storm Hills pigging facility.
<b>talik</b>	The permanently unfrozen ground in regions of permafrost. Usually applies to a layer that lies above the permafrost, but below the active layer, that is, when the permafrost table is deeper than the depth reached by winter freezing from the surface.
<b>TBD</b>	The abbreviation for to be determined.
<b>TCU</b>	The abbreviation for true colour unit.
<b>TDS</b>	The abbreviation for total dissolved solids.
<b>TEG</b>	The abbreviation for thermo-electric generators.

<b>temporary camp</b>	A stationary or mobile camp built to temporarily house between 35 and 1,350 people. Temporary camps use diesel power generators to generate electrical power and include a potable water and waste management system.
<b>temporary workspace</b>	Space adjacent to a permanent right-of-way, which is required during the construction period only, and is not required for operation of the pipeline.
<b>terrace</b>	A single or assemblage of step-like forms, each of which consists of a scarp face and a horizontal or gently inclined surface above.
<b>thaw bulb</b>	An area of thawed ground in permafrost terrain surrounding a pipeline.
<b>thaw settlement</b>	The settlement that occurs when a warm pipeline thaws the surrounding frozen soil.
<b>thaw unstable soils</b>	Soils, generally containing a high percentage of ice, which are prone to settlement and loss of strength when thawed.
<b>thermoelectric generator</b>	A form of electrical generator, in which a burner, fuelled directly off of a gas pipeline, heats a thermopile. The resulting temperature differential across the thermopile produces a flow of electrons that is used to power communications or valving equipment.
<b>thermokarst</b>	The process by which characteristic landforms result from the thawing of ice-rich permafrost or the melting of massive ice.
<b>thermokarst lake</b>	A lake occupying a closed depression formed by settlement of the ground following thawing of ice-rich permafrost or the melting of massive ice.
<b>thermokarst terrain</b>	The often irregular topography resulting from the melting of excess ground ice and subsequent thaw settlement.
<b>thermokarst topography</b>	An irregular land surface formed in a permafrost region by melting ground ice.
<b>thermokarst, active</b>	The process by which characteristic landforms are currently developing as a result of thawing of ice-rich permafrost or melting of massive ice.

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<b>thermo-syphon</b>	Self-contained, passive heat transfer units used to maintain thermal regimes in permafrost for increased soil strength and stability.
<b>till</b>	The unsorted sedimentary material deposited directly by, and underneath, a glacier, consisting of a mixture of clay, silt, sand, gravel and boulders. Also known as glacial till.
<b>timberline</b>	The altitudinal level on a mountain, above which no trees grow. Also known as <i>tree line</i> .
<b>TK</b>	The abbreviation for traditional knowledge.
<b>TOC</b>	The abbreviation for total organic carbon.
<b>topography</b>	The configuration of a surface, including its relief and natural and artificial features.
<b>total dissolved solids</b>	A measure of the total concentration of chemicals that are dissolved in water or that are in particulate form smaller than a standard-size filter, i.e., 0.45 microns, in water. These chemicals are usually salts, such as calcium, sodium, chloride and sulphate ions (also known as TDS).
<b>total organic carbon</b>	A measure of the dissolved and particulate inorganic carbon, most of which is in the form of carbon dioxide (CO <sub>2</sub> ), and carbonate (CO <sub>3</sub> ) and bicarbonate (HCO <sub>3</sub> ) compounds (also known as TOC).
<b>total suspended solids</b>	A measure of the total concentration of suspended solids in water (also known as TSS).
<b>TP</b>	The abbreviation for test pit.
<b>traditional knowledge</b>	Knowledge that is based on direct observation or information passed on orally among community members, developed from the experience of living on the land.
<b>TransCanada</b>	The abbreviation for TransCanada Pipelines Limited.
<b>travel lane</b>	The portion of the right-of-way used for travel by vehicles and equipment.
<b>tree line</b>	The altitudinal level on a mountain above which no trees grow. Also known as timberline.

<b>trench, pipeline</b>	A long, narrow excavation dug in the earth in which a pipeline is buried. Also known as a ditch.
<b>trencher</b>	A piece of equipment used to excavate the trench.
<b>trencher lane</b>	A surveyed line that is used to guide the trencher operator to ensure the correct placement of the trench within the pipeline right-of-way.
<b>trenchless crossing</b>	A water crossing technique used in pipeline construction in which the pipe is placed under the riverbed without excavating a trench. A hole is drilled beneath the river and the preassembled pipeline is pulled through it. Also known as a horizontal directional drilled crossing (HDD).
<b>TSS</b>	The abbreviation for total suspended solids.
<b>tundra</b>	A vast treeless zone, lying between the ice cap and the timberline of North America and Eurasia, that has a permanently frozen subsoil.
<b>turnaround</b>	A period during which a plant is shut down completely for repairs, inspections, or modifications that cannot be made while the plant is operating.
<b>uncommon vegetation communities</b>	Vegetation communities that are within a small area, might have a slow recovery time, are areas that contain large number of plant species unique to the plant community, have rare plant species associated with the plant community or have the potential for disproportionate project effects relative to the vegetation's extent on the landscape.
<b>unconformity</b>	The surface of contact between two groups of strata that represent a break in the geological record.
<b>utilities</b>	The supply of electricity, natural gas, water, sewer drains and other services.
<b>UTM</b>	The abbreviation for Universal Transverse Mercator.
<b>valued component</b>	A characteristic or feature that represents important human environment conditions identified by assessment specialists, communities or stakeholders.

<b>vegetated channel</b>	An ephemeral watercourse that might be a depression or swale. This kind of watercourse experiences flow primarily only during spring runoff. It has no discernable banks or evidence of annual sediment transport.
<b>vein ice</b>	A comprehensive term for ice of any origin occupying cracks in permafrost. It occurs in various forms, including horizontal layers or lenses, tabular sheets, wedges and reticulate nets.
<b>veneer</b>	A mantle of unconsolidated materials too thin to mask the minor irregularities of the surface of the underlying material. It is between about 10 cm and 1.0 m thick and possesses no constructional form typical of the material genesis.
<b>VOC</b>	The abbreviation for volatile organic compound.
<b>volatile organic compound</b>	Any compound of carbon, excluding carbon monoxide, carbon dioxide, carbonic acid, methane, ethane, metallic carbides or carbonates, and ammonium carbonate, that evaporates readily and participates in atmospheric photochemical reactions, including the formation of ozone (also known as VOC).
<b>volumetric</b>	Relating to measurement by volume.
<b>waste management plan</b>	The system developed to track and control emissions and waste, and evaluate pollution-prevention steps.
<b>wastewater, domestic</b>	A combination of black water (sewage) and grey water (laundry, showers, sinks, kitchen water) generated from camps, offices and general staff activities.
<b>wastewater, process</b>	A combination of water streams characteristic to a specific process facility. Collected via sumps, floor drains and drain lines. Might include wash water, cooling water, and drainage from process buildings.
<b>watercourse</b>	A natural or artificial channel with perennial or intermittent flow and definable bed and banks.
<b>water crossing</b>	A location where a pipeline or access road crosses a stream, river, lake or pond.
<b>waterfowl</b>	Aquatic birds, especially swimming game birds, such as swans, ducks and geese.

<b>water table</b>	The surface of the saturated zone of permeable rocks beneath the earth's surface.
<b>WCB</b>	The abbreviation for the Workers' Compensation Board.
<b>well-being</b>	Everything that affects the experience of life, including the circumstances of physical existence and the quality of relationships.
<b>well-bonded permafrost</b>	Ice-bearing permafrost in which all the soil particles are held together by ice.
<b>wellness</b>	Includes physical, emotional and mental health, and relationship well-being.
<b>wetlands</b>	A broad group of wet habitats where the water table is usually at or near the surface, or the land is covered by shallow water.
<b>wheel ditcher</b>	A ditching machine for pipeline construction that has a large, rotating set of toothed scoops on a wheel that lift dirt out of the ditch and feed it onto a conveyor mounted on the side of the machine.
<b>windrow</b>	A linear stockpile of material cleared, graded or excavated from the right-of-way.
<b>winter road</b>	A secondary road made of compact snow or ice, often plowed over a frozen lake or ground, and that is impassable in the summer. Also known as an ice road.
<b>winterization</b>	The process of maintaining temperature in a piping system by heating the system with mechanical or electrical components. Also known as heat tracing.
<b>WMP</b>	The abbreviation for waste management plan.
<b>work side</b>	The side of the pipeline right-of-way that construction activities such as stringing, welding, coating and lowering-in take place.
<b>wrinkling, pipe</b>	The waviness around the edges of a pipe wall.
<b>WNW</b>	The abbreviation for west-northwest.
<b>WSW</b>	The abbreviation for west-southwest.