

ACRONYMS AND ABBREVIATIONS

Terminology used in this document is defined where it is first used. The following list will assist readers who may choose to review only portions of the document. Definitions for many of these terms can also be found in the Glossary. Acronyms that are used for two different terms are noted at the end of this table.

Acronym	Description
2-D	Two-dimensional
3-D	Three-dimensional
AANDC	Aboriginal Affairs and Northern Development Canada
AAQA	Ambient Air Quality Standard
AAQO	Ambient Air Quality Objective
ABA	Acid-base accounting
ACCI	Area of critical community interest
ACP	Aboriginal Consultation Plan
ACR	Aboriginal Consultation Report
adjSNPR	adjusted sulphide net potential ratio
ADP	Adaptive Management Plan
AEMP	Aquatic Effects Monitoring Program
AEMRP	Aquatic Effects Management and Response Plan
AIA	Archaeological Impact Assessment
AIR	Application Information Requirements
ALS	ALS Environmental Services
AMP	Adapted Management Plan
ANFO	Ammonium nitrate/fuel oil

Acronym	Description
AOA	Archaeological Overview Assessment
AOC	Areas of Concern
AP	Acid Potential
APH	Average Persons per Household
AQDMP	Air Quality and Dust Management Plan
AQDMS	Air Quality and Dust Management System
AQO	Air quality objectives
ARD	Acid rock drainage
ATV	All-terrain Vehicle
BAFA	Boreal Altai Fescue Alpine
BAT	Best Available Technology
BC	British Columbia
BC CDC	British Columbia Conservation Data Centre
BC CPA	British Columbia Chartered Professional Accountants
BC EAA	<i>British Columbia Environmental Assessment Act</i>
BC EAO	British Columbia Environmental Assessment Office
BC EDA	British Columbia Economic Development Association
BC ILMB	British Columbia Integrated Land Management Bureau
BC MARR	British Columbia Ministry of Aboriginal Relations and Reconciliation
BC MEM	British Columbia Ministry of Energy and Mines
BC MEMNG	British Columbia Ministry of Energy, Mines and Natural Gas (currently known as BC MEM)
BC MFLNRO	British Columbia Ministry of Forests, Lands and Natural Resource Operations

Acronym	Description
BC MIO	British Columbia Major Investment Office
BC MJTST	British Columbia Ministry of Jobs, Tourism and Skills Training
BC MMPO	British Columbia Major Mines Permitting Office
BC MOE	British Columbia Ministry of Environment
BC MOF	British Columbia Ministry of Finance
BC MOTI	British Columbia Ministry of Transportation and Infrastructure
BC MWLAP	British Columbia Ministry of Water, Land and Air Protection
BC OGC	BC Oil and Gas Commission
BCF	Bioconcentration factor
BCIOM	British Columbia Input-Output Model
BCTC	British Columbia Treaty Commission
BCTS	British Columbia Timber Sales
BEC	Biogeoclimatic Ecosystem Classification
BIBO	Bus-in and bus-out
BMP	Best Management Practice
BRFN	Blueberry River First Nation
ca	circa (meaning <i>approximately</i>)
CAAQs	Canadian Ambient Air Quality Standards
CABIN	Canadian Aquatic Biomonitoring Network
CACs	Criteria Air Contaminants
CAPEX	Capital expenditure
CAPMoN	Canadian Air and Precipitation Monitoring Network
CCME	Canadian Council of Ministers of the Environment

Acronym	Description
CDA	Canadian Dam Association
CEA	Cumulative Effects Assessment
CEA Agency	Canadian Environmental Assessment Agency
CEAA 2012	<i>Canadian Environmental Assessment Act, 2012</i>
CEPA	<i>Canadian Environmental Protection Act</i>
CFNR	Canada's First Nations Radio
CHR	Community Health Representative
CIL	Carbon in Leach
CN _{WAD}	Cyanide Weak Acid Dissociable
CO	Carbon monoxide
CO ₂	Carbon dioxide
COPC ^a	Contaminant of potential concern
COSEWIC	Committee on the Status of Endangered Wildlife in Canada
CPABC	Chartered Professional Accountants of British Columbia
CPD	Certified Project Description
CRA	Commercial, Recreational, and Aboriginal
CRF	Cemented Rock Fill
CSR	Corporate Social Responsibility
CSHP	Camp Services and Health Plan
CSM	Conceptual site model
CSTC	Carrier Sekani Tribal Council
CULRTP	Cultural use of land and resources for traditional purposes
CWBI	Community Well-being Index

Acronym	Description
CWH	Coastal Western Hemlock
CWS	Canada-Wide Standards
D&F	Drift-and-Fill
dAIR	Draft Application Information Requirements
dBA	Decibels (A-weighted)
dBC	Decibels (C-weighted)
dBZ	Decibels (Z-weighted)
DEM	Digital Elevation Model
DFO	Fisheries and Oceans Canada
DNA	Deoxyribonucleic Acid
DWQG	Drinking water quality guideline
dw	Dry weight
EA	Environmental Assessment
EAC	Environmental Assessment Certificate (pursuant to the <i>BCEAA</i>)
EACA	Environmental Assessment Conduct Agreement
EAO	Environmental Assessment Office
EAWG	Environmental Assessment Working Group
EC	Environment Canada
ECCC	Environment and Climate Change Canada
EcoCat	Ecological Reports Catalogue
EDF	Environmental Design Flood
EDI	Estimated daily intake
EDGM	Earthquake Design Ground Motion

Acronym	Description
EEM	Environmental Effects Monitoring
EFAP	Employee Family Assistance Program
EIS	Environmental Impact Statement
EM	Environmental monitor
EMF	Electromagnetic field
EMC	Environmental Management Committee
EMP	Environmental Management Plan
EMS	Environmental Management System
ENSO	El Niño Southern Oscillation
EPCM	Engineering, procurement, construction, and management
EoR	Engineer of Record
EPIC	Electronic Project Information and Collaboration
EPT	Ephemeroptera, Plecoptera, Trichoptera
ERCB	Energy Resources Conservation Board
ERP	Emergency Response Plan
ERRIS	Effluent Regulatory Reporting Information System
ESCIA	Economic, Social, and Cultural Impact Assessment
ESCP	Erosion and Sediment Control Plan
EUB	(Alberta) Energy and Utilities Board
FAT	felsic ash tuff
FHAP	Fish Habitat Assessment Procedure
FIFO	Fly-in/Fly-out
FISS	Fisheries Information Summary System

Acronym	Description
FLB	field leach barrel
FMEA	Failure Modes and Effects Analysis
FNFA	Fort Nelson First Nation
FRPA	<i>Forest and Range Practices Act</i>
FSR	Forest service road
FTE	Full-Time Equivalent
GBPU	Grizzly Bear Population Unit
GDC	Gitxsan Development Corporation
GDP	Gross Domestic Product
GHCO	Gitxsan Hereditary Chiefs Office
GHG	Greenhouse Gas
GIS	Geographic Information Systems
GPS	Global Positioning System
GWNK	Gitxsan Wilp Nii Kyap
HA	Highly annoyed
HCA	<i>Heritage Conservation Act</i>
HDPE	high-density polyethylene
HEA	Health Effects Assessment
HHRA	Human Health Risk Assessment
HI	Hazard index
HMMP	Hazardous Materials Management Plan
HQ	Hazard quotient
HRFN	Halfway River First Nation

Acronym	Description
HSDA	Health Service Delivery Area
HSSP	Health and Social Services Plan
IBA	Impact-Benefit Agreement
IC	Intermediate Component
IDF	inflow design flood
IDM	IDM Mining Limited
ILCR	Incremental lifetime cancer risk
IMA	Interim Measures Agreement
INAC	Indigenous and Northern Affairs Canada (now known as AANDC)
INCIRP	International Commission on Non-Ionizing Radiation Protection
IR	Indian Reserve
ISCBC	Invasive Species Council of BC
ISO	International Organization for Standardization
ISQG	Interim Sediment Quality Guideline
ITRB	Independent Tailings Review Board
JHA	Job Hazard Assessment
KP	Knight Piésold Ltd.
KPI	Key Performance Indicator
KSM	Kerr Sulphurets Mitchell
LHA ^a	Local health authority
LHD	Load-haul-dump
LNG	Liquefied Natural Gas
LOEL	Lowest Observed Effect Level

Acronym	Description
LOM	Life of mine
LPA	Local procurement area
LRMP	Land and Resource Management Plan
LSA	Local Study Area
LU	Landscape Unit
MAAT	Mean annual air temperature
MAC	Mining Association of Canada
MAD	Mean Annual Discharge
MAP	mean annual precipitation
MAPA	<i>Mines Act</i> Permit Application
MAR	Mean Annual Runoff
Masl	metres above sea level
MBCA	<i>Migratory Birds Convention Act</i>
MCFD	Ministry of Children and Family Development
MDE	Maximum Design Earthquake
MDL	Method Detection Limit
MEND	Mine Environment Neutral Drainage
MHMP	Material Handling and Metal Leaching/Acid Rock Drainage (ML/ARD) Plan
MiHR	Mining Industry Human Resources
MIC	Maximum instantaneous charge
ML/ARD	Metal leaching / acid rock drainage
MMER	Metal Mining Effluent Regulation
MNBC	Métis Nation British Columbia

Acronym	Description
MNC	Métis National Council
MOU	Memorandum of Understanding
MR	Metals Removal
MSC	Meteorological Services of Canada
MSDS	material safety data sheet
MT	Minnow Trap
NAAQO	National Ambient Air Quality Objective
NAG	Non-acid Generating
NAP	Noise Abatement Plan
NCDR	North Coast Development Region
NDIT	Northern Development Initiative Trust
NEDR	Northeast Development Region
NEST	Nisga'a Employment, Skills and Training
NFA	Nisga'a Final Agreement
NGO	Nisga'a guide outfitting
NGO ^b	Non-governmental Organization
NHA	Northern Health Authority
NHS	National Household Survey
NLG	Nisga'a Lisims Government
NO ₂	Nitrogen dioxide
NoW	Notice of Work
NO _x	Nitrogen oxide
NP	Neutralization Potential

Acronym	Description
NPV	Nisga'a Pacific Ventures LP
NPR	Net potential ratio (measure of acid generation potential)
NRCan	Natural Resources Canada
NSR	Net Smelter Royalty
NTS	National Topographic System
NWCC	Northwest Community College
NVHA	Nisga'a Valley Health Authority
NWIPC	Northwest Invasive Plant Council
NW RWT	Northwest Regional Workforce Table
OB	Overburden
OBE	Operating Basis Earthquake
OCP	Official Community Plan
OGMA	Old-growth management area
OHSP	Occupational Health and Safety Plan
OMS	Operations, Maintenance and Surveillance
OPEX	Operating Expenditures
PAC	Potentially-Affected Community
PAG	Potentially acid-generating
PAH	Polycyclic aromatic hydrocarbon
PARL	Provincial Archaeological Report Library
PCP	Public Consultation Plan
PCR	Public Consultation Report
PD	Project Description

Acronym	Description
PDCA	Plan- Do- Check-Act
PDO	Pacific Decadal Oscillation
PEA	Preliminary Economic Assessment
PEL	Probable Effects Level
PEM	Predictive ecosystem mapping
PFR	Preliminary Field Reconnaissance
PGA	Peak ground acceleration
PM _{2.5}	Particulate matter with diameter less than 2.5 microns
PM ₁₀	Particulate matter with diameter less than 10 microns
PMF	Probable Maximum Flood
PPSA	Provincial Police Service Agreement
PFR	Preliminary Field Reconnaissance
PRISM	Parameter-elevation Regressions on Independent Slopes Model
PTP	Pacific Trails Pipeline
PY	Person Year
PYLL	Potential Years of Life Lost
QA/QC	Quality Assurance/Quality Control
QEP	Qualified Environmental Professional
RA	Responsible Authority
RAAD	Remote Access to Archaeological Data
RBT	Rainbow trout
RCMP	Royal Canadian Mounted Police
RCP	Reclamation and Closure Plan

Acronym	Description
RD	Regional District
RDKS	Regional District of Kitimat-Stikine
RDPA	Regulations Designating Physical Activities
RECP	rolled erosion control product
RIC	Resource Inventory Committee
RISC	Resource Information Standards Committee (previously known as the Resources Inventory Committee)
RMM	Rapid mass movement
RMR	Rock mass rating
RMZ	Resource Management Zone
ROM	RUN OF MINE
ROW	Right-of-way
RPA	Regional procurement area
RSA	Regional Study Area
SAP	sulphide acid potential
SARA	<i>Species at Risk Act</i>
SCP	<i>Spill Contingency Plan</i>
SEMP	Social and Economic Management Plan
SFE	Shake Flask Extraction
SFN	Saulteau First Nation
SMM	Slow mass movement
SMU	Soil Mapping Unit
SNRP	sulphide net potential ratio
SO ₂	Sulphur dioxide

Acronym	Description
SOP	Standard Operating Procedure
SRK	SRK Consulting Inc.
SRMP	Sustainable Resource Management Plan
SST	Sea surface temperature
STEP	Skills, Training and Employment
SWMP	Site Water Management Plan
TC	Transport Canada
TDCSS	Terrace and District Community Services Society
TDS	Total Dissolved Solids
TEK	Traditional Ecological Knowledge
TEM	Terrestrial Ecosystem Mapping
TIC	Total inorganic carbon
TLUS	Traditional Land Use Study
TKLUS	Traditional Knowledge and Land Use Study
TMF	Tailings Management Facility
TN	Total Nitrogen
ToC	Table of Conditions
TOC	Total Organic Carbon
TP	Total Phosphorus
TRV	Toxicity reference value
TSA ^c	Timber Supply Area
TSKLH	Tsetsaut Skii km Lax Ha
TSM	Towards Sustainable Mining

Acronym	Description
TSMP	Terrain and Soil Management Plan
TSP	Total suspended particulate
TSS	Total suspended solid
TU	Traditional use
U/G	Underground
UOS	Use and Occupancy Study
UPAG	uncertain potential for acid generation
US EPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UTM	Universal Transverse Mercator
UWR	Ungulate Winter Range
VC	Valued Component
VEMP	Vegetation and Ecosystems Management Plan
VOC	Volatile organic compound
VQO	Visual Quality Objectives
VRI	Vegetation Resource Information
WARS	Wildlife Accident Reporting System
WBM	Water balance model
WHA	Wildlife habitat area
WHO	World Health Organization
WMP ^d	Wildlife Management Plan
WRF	Weather Research and Forecasting
WRSA	Waste Rock Storage Area

Acronym	Description
WSN	Wilp Si'ayuukhl Nisga'a
WWNI	Wilp Wilxo'oskwhl Nisga'a Institute
WTP	Water treatment plant
ZOI	Zone of influence

^a The acronym COPC is used in Chapters 1 and 22 to refer to *Constituents of Potential Concern*

^b The acronym LHA is used in Chapters 19 and 27 to refer to *Local Health Area*

^c The acronym NGO is used in Chapters 20 and 28 and Appendix 20-A to refer to *Nisga'a Guide Outfitting*

^d The acronym TSA is used in Chapters 11 and 12 to refer to *Technical Study Area*

^e The acronym is also used to refer to *Waste Management Plan*

Symbol	Unit of Measurement	Symbol	Unit of Measurement
<	less than	L	litre
>	greater than	lb	pound
°	degree	Ld	day time noise levels
%	percent	Ldn	daily equivalent noise level
°C	degree Celsius	Leq	equivalent sound level
µg/m ³	microgram per cubic metre	L/m	litres per minute
µm	micrometre or micron	Lmax	maximum instantaneous noise level
µPa	micropascal	Ln	night time equivalent sound level
µS	microsiemens	Lpeak	peak sound overpressure level
a	annum (year)	Lw	sound power level
Bcf/d	billion cubic feet per day	m	metre
Bt	billion tonnes	M	million or mega
CDN\$	Canadian dollars	m ³	cubic metre
cfm	cubic feet per minute	m ³ /d	cubic metres per day
cm	centimetre	m ³ /h	cubic metres per hour
cm ²	square centimetre	m ³ /s	cubic metres per second
cm ³	cubic centimetre	masl	metres above sea level
d	day	mbgs	metres below ground surface
dm	decametre	mE	metres east
dB	decibel	mg	milligram
dba	A-weighted decibel level	ml	millilitre
dbc	C-weighted decibel level	mm	millimetre
dbl	linear decibel level	mm/s	millimetres per second
dbz	Z-weighted decibel	Mm ³ /yr	million cubic metres per year
dW	Dry weight	mN	metres north
g	gram	m/s	metres per second
g	acceleration due to gravity*	Mt	million tonnes or megatonne
G	Gauss	Mtpa	Metric tonnes per annum
g/t	grams per tonne	MW	megawatt (1,000,000 watts)
GW	gigawatt	oz	ounce
h	hour (<i>also used: hr</i>)	Pa	pascal
ha	hectare	ppm	parts per million
hp	horsepower	Q	discharge
K	kelvin (temperature)	s	second
kg	kilogram	t	metric tonne (1,000 kg)
km	kilometre	T	Tesla
kPa	kilopascal	t/a	tonnes per annum
kt	kilotonne	t/h	tonnes per hour
kV	kilovolt	tpd	tonnes per day (<i>also used: t/d</i>)
kVA	kilovolt-ampere	US\$	United States dollars
kW	kilowatt	V	volt
kWh	kilowatt-hour	W/m ²	Watts per square metre
kWh/t	kilowatt-hours per tonne		

*g is used in Chapter 24 to refer to Peak Ground Acceleration