

## Master List of Acronyms and Abbreviations

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1D	One-dimensional
2D	Two-dimensional
3D	Three-dimensional
AAFC	Agriculture and Agri-Food Canada
AANDC	Aboriginal Affairs and Northern Development Canada (formerly INAC)
ABA	Acid-base accounting
ABE	Adult Basic Education
adjSNPR	Adjusted sulphide net potential ratio
AEMP	Aquatic Effects Monitoring Plan
AIP	Agreement in Principle
ALS	ALS Environmental Services
ALTS	Adult Learning and Training Supports
AMAP	Arctic Monitoring and Assessment Programme
ANCOVA	Analysis of covariance
ANFO	Ammonium nitrate/fuel oil
ANOVA	Analysis of variance
AP	Acid potential (based on sulphur species)
AQMP	Air Quality Management Plan
AQO	Provincial Air Quality Objective
ARD	Acid rock drainage
ASETS	Aboriginal Skills and Employment Training Strategy
ASTt	Arctic Small Tool tradition
ATV	All-terrain vehicle
Au	Gold (chemical symbol)
AWR	All-weather road
BACI	Before-after-control-impact
BACT	Best achievable control technology

BC	British Columbia
BDL	Below detection limit
Belt, the	The Hope Bay Greenstone Belt
BHP	BHP Minerals Canada Ltd. (now BHP Billiton Inc.)
BIPR	Bathurst Inlet and Road Project
BTF	Biotransfer factor
CAAQS	Canadian Ambient Air Quality Standards
CALPUFF	The California Puff air dispersion model
Cambiex	Cambiex Exploration Inc.
CanNor	Canadian Northern Economic Development Agency
CAPEX	Capital expenditures
CBC	Community Beneficiary Committees
CBoC	Conference Board of Canada
CCELCC	Canada Committee on Ecological Land Classification
CCME	Canadian Council of Ministers of the Environment
CDA	Canadian Dam Association
CDO	Career Development Officer
CEA	Cumulative effects assessment
CEA Agency	Canadian Environmental Assessment Agency
CEAP	Canada's Economic Action Plan
CEPA	<i>Canadian Environmental Protection Act</i>
CESCC	Canadian Endangered Species Conservation Council
CFIA	Canadian Food Inspection Agency
CFC	Chlorofluorocarbon
CH <sub>4</sub>	Methane
CHARS	Canadian High Arctic Research Station
CHHAD	Chemical Health Hazard Assessment Division
Chl a	Chlorophyll a
CHR	Community Health Representative
CLARC	Community Lands and Resource Committee
CLO	Community Liaison Officer

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CMC	Canadian Museum of Civilization
Co-op	Co-operative
CO	Carbon monoxide
CO <sub>2</sub> ; CO <sub>2eq</sub>	Carbon dioxide; carbon dioxide equivalent
Commercial Lease	Commercial lease no. KTCL313D001
COPC	Constituents of potential concern
COSEWIC	Committee on the Status of Endangered Wildlife in Canada
CPI	Consumer Price Index
CPUE	Catch-per-unit-effort
CRA	Commercial, Recreational, and Aboriginal fisheries
CRF	Cemented rock fill
CRI	Community Readiness Initiative
CWB	Community well-being
CWP	Contact water pond
DDI	Double de-ionized water
DEFZ	Deformation Zone
DFO	Fisheries and Oceans Canada (not Department of Fisheries and Oceans)
DGPS	Differential Global Positioning System
DHSS	Department of Health and Social Services
DIAND	Department of Indian Affairs and Northern Development
DO	Dissolved oxygen
DWQG	Drinking water quality guideline
EA	Environmental assessment
EBSA	Ecologically and biologically significant areas
EC	Environment Canada
ECCC	Environment and Climate Change Canada
EDI	Estimated daily intake
EDMS	Emissions and Dispersion Modeling System
EDO	Economic Development Officer
EEM	Environmental Effects Monitoring
EFAP	Employee and Family Assistance Program

<b>EHS</b>	Environment, Health and Safety
<b>EIS</b>	Environmental Impact Statement
<b>ELC</b>	Ecosystem Land Classification
<b>ELDE</b>	Estimated lifetime daily exposure
<b>EMP</b>	Environmental Management Plan
<b>EMS</b>	Environmental Management System
<b>EPP</b>	Environmental Protection Plan
<b>ER</b>	Exposure ratio
<b>ERA</b>	Environmental risk assessment
<b>ERM</b>	ERM Consultants Canada Ltd.
<b>EPCM</b>	Engineering, Procurement and Construction Management
<b>ERT</b>	Emergency response team
<b>EZD</b>	Euphotic zone depth
<b>FANS</b>	Financial Assistance for Nunavut Students
<b>FAO</b>	Food and Agriculture Organization
<b>FCIR</b>	False-Colour Infrared
<b>FEIS</b>	Final Environmental Impact Statement
<b>FHAP</b>	Fish habitat assessment procedure
<b>FLB</b>	Field leach barrel
<b>FMSA</b>	Focused Marine Survey Area
<b>FOS</b>	Factors of safety
<b>Fs</b>	Fraction of year consuming country food
<b>GCL</b>	Geosynthetic clay liner
<b>GDP</b>	Gross Domestic Product (the value added by economic activity, principally composed of personal income and corporate profits)
<b>GHG</b>	Greenhouse Gas
<b>GIS</b>	Geographic information system
<b>GLM</b>	General linear model
<b>GN</b>	Government of Nunavut
<b>GN-CH</b>	Government of Nunavut, Department of Culture and Heritage; previously Government of Nunavut, Department of Culture, Language, Elders and Youth (GN-CLEY)

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<b>GN DOE</b>	Government of Nunavut Department of Environment
<b>GPS</b>	Global Positioning System
<b>GWP</b>	Global Warming Potential
<b>HBML</b>	Hope Bay Mining Ltd.
<b>HBVB</b>	Hope Bay Volcanic Belt
<b>HDPE</b>	High density polyethylene
<b>HHRA</b>	Human health risk assessment
<b>Hope Bay Gold</b>	Hope Bay Gold Corporation Inc.
<b>HP</b>	High pressure
<b>HQ</b>	Hazard quotient
<b>HR</b>	Human Resources
<b>HTO</b>	Hunters and Trappers Organization
<b>HWM</b>	High water mark
<b>ICRP</b>	Interim Mine Closure and Reclamation Plan
<b>IEAC</b>	Inuit Environmental Advisory Committee
<b>IIAB</b>	Inuit Impacts and Benefits Agreement
<b>IDW</b>	Inverse Distance Weighting
<b>IF</b>	Inflow
<b>IBA</b>	Important bird area
<b>IIBA</b>	Inuit Impact and Benefit Agreement
<b>ILCR</b>	Incremental Lifetime Cancer Risk
<b>INAC</b>	Indian and Northern Affairs Canada (currently known as AANDC)
<b>inorg NP</b>	Inorganic carbon neutralization potential
<b>IOL</b>	Inuit-owned Land
<b>IPCC</b>	International Panel on Climate Change
<b>IPG</b>	Institution of Public Government
<b>IPJ</b>	Inline pressure jig
<b>IPO</b>	Initial public offering
<b>IQ</b>	Inuit Qaujimajatuqangit
<b>IR</b>	Information request
<b>IRIS</b>	Integrated Risk Information System

<b>ISQG</b>	Interim sediment quality guideline
<b>ISSG</b>	Invasive Species Specialist Group
<b>ITK</b>	Inuit Tapiriit Kanatami
<b>IUCN</b>	International Union for Conservation of Nature
<b>JECFA</b>	Joint FAO/WHO Expert Committee on Food Additives
<b>JHA</b>	Job Hazard Assessment
<b>KMHS</b>	Key Marine Habitat Site
<b>KMTS</b>	Key Terrestrial Habitat Site
<b>KIA</b>	Kitikmeot Inuit Association
<b>KRWB</b>	Kitikmeot Regional Wildlife Board
<b>LH</b>	Long-hole
<b>LHO</b>	Local Housing Organization
<b>LOAEL</b>	Lowest observable adverse effect level
<b>LOM</b>	Life of mine
<b>LP</b>	Low pressure
<b>LRT</b>	Long range transport
<b>LSA</b>	Local Study Area
<b>MAAT</b>	Mean annual air temperature
<b>MB</b>	Megabyte
<b>masl</b>	Metres above sea level
<b>mbgs</b>	Metres below ground surface
<b>MDA</b>	Method Detection Limit
<b>MDL</b>	Method detection limit
<b>MEA</b>	Mineral Exploration Agreement
<b>MEND</b>	Mine Environment Neutral Drainage
<b>MHBL</b>	Miramar Hope Bay Limited
<b>MiHR</b>	Mining Industry Human Resource Council
<b>Miramar</b>	Miramar Mining Corporation
<b>ML</b>	Metal leaching*
<b>MLA</b>	Member of the Legislative Assembly
<b>ML/ARD</b>	Metal leaching/acid rock drainage

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<b>MMER</b>	Metal Mining Effluent Regulations
<b>MOE</b>	Ministry of Environment
<b>MOMB</b>	Marine outfall mixing box
<b>MOU</b>	Memorandum of understanding
<b>MRL</b>	Minimal risk level
<b>MSDA</b>	Mine Surface Development Area
<b>MSDS</b>	Material Safety Data Sheets
<b>MVEIRB</b>	Mackenzie Valley Environmental Effect Review Board
<b>MVLWB</b>	Mackenzie Valley Land and Water Board
<b>MSC</b>	Meteorological Services of Canada
<b>MSDS</b>	Material Safety Data Sheet
<b>n</b>	Sample size
<b>N<sub>2</sub>O</b>	Nitrous Oxide
<b>NAC</b>	Nunavut Arctic College
<b>NBCC</b>	Nunavut Business Credit Corporation
<b>NBS</b>	Nunavut Bureau of Statistics
<b>NCP</b>	Northern Contaminants Program
<b>NDEDT</b>	Nunavut Department of Economic Development and Transportation
<b>NEAS</b>	Nunavut Eastern Arctic Shipping
<b>NEDS</b>	Nunavut Economic Development Strategy
<b>NGO</b>	Non-governmental organization
<b>NGMP</b>	Nunavut General Monitoring Program
<b>NHC</b>	Nunavut Housing Corporation
<b>NHS</b>	National Household Survey
<b>NIRB</b>	Nunavut Impact Review Board
<b>NLUP</b>	Nunavut Land Use Plan
<b>NNLP</b>	No Net Loss Plan
<b>NO<sub>x</sub></b>	Nitrogen oxides
<b>NOAEL</b>	No observed adverse effect level
<b>NP</b>	Neutralization potential measured or calculated
<b>NPC</b>	Nunavut Planning Commission

NPR	Net potential ratio (ratio of NP to AP)
NPRI	National Pollutant Release Inventory
NRCan	Natural Resources Canada
NSA	Nunavut Settlement Area
NSR	Net smelter return
NSRT	Nunavut Surface Rights Tribunal
NSSI	Nunavut Sealift and Supply Inc.
NTCL	Northern Transportation Company Limited
NTDB	National Topographic Database
NTEP	Nunavut Teacher Education Program
NTI	Nunavut Tunngavik Inc.
NTKP	Naonaiyaotit Traditional Knowledge Project
NTCL	Northern Transportation Company Ltd.
NTI	Nunavut Tunngavik Incorporated
NTU	Nephelometric Turbidity Unit
NU	Nunavut
NWB	Nunavut Water Board
NWHS	Nunavut Wildlife Harvest Study
NWMB	Nunavut Wildlife Management Board
NWT	Northwest Territories
O <sub>3</sub>	Ozone
OGV	Ocean-going vessel
OHF	Oil handling facility
OMS	Operation, Maintenance and Surveillance
OPEP	Oil Pollution Emergency Plan
OPEX	Operating expenditures
OPPP	Oil Pollution Prevention Plan
ORNL	Oak Ridge National Laboratory
PAD	Permanent alteration or destruction (a direct loss or alteration of fish habitat)
PAG	Potentially acid-generating

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<b>PAH</b>	Polycyclic Aromatic Hydrocarbon
<b>PASS</b>	Passive Air Sampling System
<b>PAX</b>	Potassium Amyl Xanthate
<b>PCP</b>	Pollution control ponds
<b>PDA</b>	Potential Development Area
<b>PEL</b>	Probable effects level
<b>PFS</b>	Pre-feasibility study
<b>PHRS</b>	Public Housing Rent Scale
<b>PIT</b>	Passive Integrated Transponder
<b>PL</b>	Production lease
<b>PM</b>	Particulate matter
<b>PM<sub>10</sub></b>	Particulate matter with a diameter less than 10 micrometres (µm)
<b>PM<sub>2.5</sub></b>	Particulate matter with a diameter less than 2.5 micrometres (µm)
<b>PMP</b>	Probable Maximum Precipitation
<b>POP</b>	Persistent organic pollutant
<b>PPV</b>	Peak particle velocity
<b>PRISM</b>	Program for Regional and International Shorebird Monitoring
<b>Project (the)</b>	The Hope Bay Project
<b>Property (the)</b>	The Hope Bay Property
<b>PTDI</b>	Provisional tolerable daily intake
<b>PTWI</b>	Provisional tolerable weekly intake
<b>PVC</b>	Polyvinyl chloride
<b>Q2</b>	Second quarter
<b>QA/QC</b>	Quality assurance and quality control
<b>QEC</b>	Qulliq Energy Corporation
<b>QIA</b>	Qikiqtani Inuit Association
<b>RAF</b>	Relative absorption factor
<b>RCMP</b>	Royal Canadian Mounted Police
<b>RDL</b>	Realized detection limit
<b>RfD</b>	Reference dose
<b>RH</b>	Relative humidity

<b>RIA</b>	Regional Inuit Association
<b>RIC</b>	Resource Inventory Committee
<b>RMWI</b>	Recommended Maximum Weekly Intake
<b>RNFB</b>	Revised Northern Food Basket
<b>ROQ</b>	Run-of-quarry
<b>RPD</b>	Relative percent difference
<b>RSA</b>	Regional Study Area
<b>RRSP</b>	Registered Retirement Savings Plan
<b>SAO</b>	Senior Administration Officer
<b>SAP</b>	Sulphide acid potential (AP based on sulphide [% sulphide-sulphur × 32.25])
<b>SARA</b>	<i>Species at Risk Act</i> (2002)
<b>SE</b>	Standard error
<b>SEL</b>	Sound exposure level
<b>SEMC</b>	Socio-economic Monitoring Committee
<b>SEMP</b>	Socio-economic Monitoring Program
<b>SERP</b>	Surface Emergency Response Plan
<b>SFE</b>	Shake flask extraction leachate test
<b>SHIM</b>	Sensitive habitat inventory methodology
<b>SIDS</b>	Sudden Infant Death Syndrome
<b>SLR</b>	Sublevel long-hole retreat
<b>SME</b>	Small to medium-sized enterprise
<b>SME</b>	Soil mapping unit
<b>SNPR</b>	Sulphide net potential ratio (NPR calculated with AP based on sulphide [bulk NP / SAP])
<b>SO<sub>2</sub></b>	Sulphur dioxide
<b>SOP</b>	Standard Operating Procedure
<b>SOPEP</b>	Shipboard Oil Pollution Emergency Plan
<b>sp.</b>	Species
<b>SPF</b>	Skills and Partnership Fund
<b>SRK</b>	SRK Consulting (Canada) Inc.

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STOL	Short take-off and landing
SUDI	Sudden Unexpected Death in Infancy
SWE	Snow water equivalent
TAH	Total allowable harvest
TBT	Tributyltin
TD	Tumorigenic dose
TDI	Tolerable daily intake
TDS	Total Dissolved Solids
TEA	Transboundary effects assessment
THA	Task hazard assessment
TIA	Tailings Impoundment Area (for Doris)
TIN	Triangulated irregular network
TK	Traditional knowledge
TKN	Total kjeldahl nitrogen
TMA	Tailings Management Area (for Boston)
TMAC	TMAC Resources Inc.
TNP	Tuktu Nogait Project
TOC	Total organic carbon
TRIM	Terrain Resource Information Management
TRV	Toxicity reference value
TSP	Total suspended particulate (not TSS)
TSX	Toronto Stock Exchange
UCF	Unconsolidated fill
UCLM	Upper confidence limit of the mean
UD	Utilization distribution
UERP	Underground Emergency Response Plan
UF	Uncertainty factor
UN	United Nations
uPAG	Uncertain potential for acid generation
US EPA	United States Environmental Protection Agency
USL	Upper safe level

<b>UTM</b>	Universal Transverse Mercator
<b>VEC</b>	Valued Ecosystem Component
<b>VOC</b>	Volatile organic compound
<b>VSEC</b>	Valued Socio-economic Component
<b>VSI</b>	Vertical shaft impactor
<b>WAD Cyanide</b>	Weak Acid Dissociable Cyanide
<b>WHIF</b>	Wetland Habitat Inspection Form
<b>WHO</b>	World Health Organization
<b>WIR</b>	Winter ice road
<b>WKSS</b>	West Kitikmeot/Slave Study
<b>WMO</b>	World Meteorological Organization
<b>WRP</b>	Waste rock pile
<b>WRR</b>	Winter road route
<b>WTP</b>	Water treatment plant
<b>WWCA</b>	Water and Wildlife Compensation Agreement
<b>XRD</b>	X-ray diffraction
<b>XRF</b>	X-ray fluorescence
<b>YOY</b>	Young-of-the-year
<b>ZOI</b>	Zone of influence

\* Note context: *ML* is used to denote million litres in some sections.

Units of Measurement

°C	degree Celsius
µg	microgram
a	annum
BTU	British thermal units
cfm	cubic feet per minute
dB	decibel
dm <sup>2</sup>	square decimetre (equal to 100 square centimetres)
DWT	deadweight tonnage
Ga	giga annum (billion years)
g/t	grams per tonne
h	hour
H	horsepower
ha	hectare
K	hydraulic conductivity
kg	kilogram
km; km/h	kilometre; kilometres per hour
kt	kilotonne
kVA	kilovolt-amperes
KW	kilowatt
L	litre
Ma	mega annum (million years)
mg	milligram
m; mm	metre; millimetre
ML	million litres (also used to abbreviate Metal Leaching)
Mt	megatonne (million tonnes)
MW; MWh/yr	megawatt; megawatt hours per year
N	newton
ppb	parts per billion
ppt	parts per trillion
t	tonne
tpd	tonnes per day
V	volt
ww	wet weight