

Abbreviation, Acronym, and Unit List

List of Abbreviations and Acronyms

2D	2-dimensional
3D	3-dimensional
AADT	Annualized Average Daily Traffic
ABA	acid base accounting
ADT	Average Daily Traffic
AENV	Alberta Environment
AEMP	Aquatic Effects Monitoring Program
AIC	Akaike's Information Criterion
ANC	Acid Neutralizing Capacity
ANFO	Ammonium Nitrate-fuel Oil
AP	Acid Potential
AQEMP	Air Quality Effects Monitoring Program
ARI	Aurora Research Institute
BRS	black rock schist
C&R	Closure and Reclamation
CALMET	California Meteorological Model
CALPUFF	California Puff Plume Dispersion Model
CCME	Canadian Council of Ministers of the Environment
CDF	Co-Disposal Facility
CEAA	Canadian Environmental Assessment Act
CEC	cation exchange capacity
CEPA	Canadian Environmental Protection Act
CERP	Contingency and Emergency Response Plan
CO	Carbon monoxide
CO ₂	Carbon dioxide
COPC	Contaminants of Potential Concern
COSEWIC	Committee on the Status of Endangered Wildlife in Canada
CSA	Caribou Study Area
CWQG	Canadian Water Quality Guidelines
DAR	Developer's Assessment Report
DBH	Diameter at Breast Height
DFO	Fisheries and Oceans Canada
DO	Dissolved Oxygen
DOT	Department of Transportation
EA	Environmental Assessment
EDF	Environmental Design Flood
EIA	Environmental Impact Assessment

FORTUNE MINERALS LIMITED NICO DEVELOPER'S ASSESSMENT REPORT

EIR	Environmental Impact Review
ELC	Ecological Landscape Classification
EMS	Environmental Management System
ENR	Environment and Natural Resources Department
EOSD	Earth Observation for Sustainable Development
ERCB	Alberta Energy Resources Conservation Board
ETF	Effluent Treatment Facility
FEED	Front End Engineering Design
Fortune	Fortune Minerals Limited
FTE	full-time equivalent
GDP	Gross Domestic Product
GIS	Geographical Information System
GNWT	Government of Northwest Territories
Golder	Golder Associates Ltd.
GPDA	Grid Ponds Drainage Area
H ⁺	hydrogen ion
HNO ₃	nitric acid, gas
HADD	harmful alteration, disruption or destruction
HRIA	Heritage Resource Impact Assessments
HSI	Habitat Suitability Index
HU	Habitat Units
INAC	Indian and Northern Affairs Canada
ISQG	Interim Sediment Quality Guidelines
KLOI	Key Line of Inquiry
Licenses and permits	licenses, permits, authorizations, or approvals
LOM	Life of Mine
LSA	Local Study Area
LUP	Land Use Permit
MDL	Method Detection Limit
MDNN	Mean Distance to Nearest Neighbour
MGP	Mackenzie Gas Project
MIBC	methylisobutyl carbinol
MMER	Metal Mining Effluent Regulations
MOU	Memorandum Of Understanding
MPOI	maximum point of impingement
MRMP	Mine Rock Management Plan
MSDS	Material Safety Data Sheets
MVEIRB	Mackenzie Valley Environmental Impact Review Board
MVLWB	Mackenzie Valley Land and Water Board
MVRB	Mackenzie Valley Review Board

FORTUNE MINERALS LIMITED NICO DEVELOPER'S ASSESSMENT REPORT

MVRMA	<i>Mackenzie Valley Resource Management Act</i>
N	Nitrogen
NAG	net acid generation
NCAR	National Centre for Atmospheric Research
NFR	Near Field Region
NICO Project	NICO Cobalt-Gold-Bismuth-Copper Project
NO	nitric oxide
NO ₂	nitrogen dioxide gas
NO ₃ ⁻	nitrate ion
NO _x	nitrogen oxides
NP	neutralization potential
NPAR	NICO Project Access Road
NRcan	Natural Resources Canada
NSMA	North Slave Métis Alliance
NTPC	Northwest Territories Power Corporation
NWT	Northwest Territories
O ₂	oxygen molecule (two oxygen atoms)
O ₃	ozone molecule (three oxygen atoms)
PAG	potentially acid generating
PAI	Potential Acid Input
PAX	potassium amyl xanthate
PD	Positive Displacement
PEL	Probable Effects Level
PM	particulate matter, generally
PM ₁₀	particulate matter of particle diameter less than 10 µm
PM ^{2.5}	particulate matter of particle diameter less than 2.5 µm
the Plant	Mineral Processing Plant
PWNHC	Prince of Wales Northern Heritage Centre
RBC	Rotary Biologic Contactor
RCMP	Royal Canadian Mounted Police
ROM	Run-of-Mine
ROWs	right-of-ways
RPD	relative percent difference
RSA	Regional Study Area
RSF	Resource Selection Function
SARA	Species at Risk Act
SCP	Seepage Collection Pond
SO ₂	sulphur dioxide gas
SO _x	sulphur oxides
SON	Subject of Note

FORTUNE MINERALS LIMITED NICO DEVELOPER'S ASSESSMENT REPORT

spp.	multiple species
SSWQO	Site Specific Water Quality Objectives
STP	Sewage Treatment Plant
TDG	Transportation of Dangerous Goods
TDS	Total Dissolved Solids
TFF	Territorial Formula Financing
TG	Tłı̄chq Government
TIC	Tłı̄chq Investment Corporation
TK	Traditional Knowledge
TLU	Traditional Land Use
TMA	Tailings and Mine Rock Management Area
TOR	Terms of Reference
TP	Total Phosphorus
TSP	Total Suspended Particulate
TSS	Total Suspended Solids
U.S. EPA	Unites States Environmental Protection Agency
USLE	Universal Soil Loss Equation
UTM	universal transverse mercator
VCs	Valued Components
VKT	Vehicle Kilometres Travelled
VOC	volatile organic compound
WEMP	Wildlife Effects Monitoring Program
WHMIS	Workplace Hazardous Materials Identification System
WHO	World Health Organization
WL	Water License
WLWB	Wek'èezhii Land and Water Board
WMP	Water Management Plan
WQM	Water Quality Model
WRRB	Wek'èezhii Renewable Resources Board
ZOI	Zone of Influence

FORTUNE MINERALS LIMITED NICO DEVELOPER'S ASSESSMENT REPORT

List of Units

%	percent
±	plus or minus
°	degree
°C	degree Celsius
<	less than
>	greater than
5.21E ⁻⁰²	Scientific notation: 0.0521 = 5.21E-02 = 5.21X10 ⁻²
cm	centimetre
dB	decibel
dBA	A-weighted decibel
dB(L)	linear decibel
g	gram
g/cm ³	gram per cubic metre
g/m ²	gram per square metre
g/m ² /y	gram per square metre per year
gal	gallon
gal/min	gallon per minute
h	hour
ha	hectare
I-TEQ	International Toxic Equivalency Quotient, relative to the toxic equivalent of 2,3,7,8-tetrachlorodibenzo-para-dioxin
kg	kilogram
keq/ha/y	kiloequivalent per hectare per year
km	kilometre
km ²	square kilometre
km/h	kilometre per hour
kPa	kilopascal
kW	Kilowatt
L	litre
L/s	litre per second
lbs psi	pound per square inch
L _{eq}	equivalent continuous sound and noise level
L _{max}	maximum sound and noise level
L _{peak}	peak sound and noise level
L _w	sound power level
m	metre
m ²	square metre
m ³	cubic metre
m ³ /d	cubic metre per day

FORTUNE MINERALS LIMITED NICO DEVELOPER'S ASSESSMENT REPORT

$m^3/s/km^2$	cubic metre per second per square kilometre
m^3/s	cubic metre per second
m^3/h	cubic metre per hour
m^3/y	cubic metre per year
m/s	metre per second
mald	metre above local datum
masl	metre above sea level
mg/kg	milligram per kilogram
mg/L	milligram per litre
mg/m^3	milligram per cubic metre
MJ	Mega Joule
MJ/m^2	Mega Joule per square metre
mm	millimetre
mm/s	millimetre per second
$M-m^3$	million cubic metre
Mt	million tonne
Mt/y	million tonne per year
oz/y	ounce per year
pg I-TEQ/m ³	picograms of international toxic equivalency quotients per cubic metre
ppb	parts per billion
ppm	parts per million
ppmw	parts per million by weight
t	tonne
t/h	tonne per hour
t/y	tonne per year
μm	micron or micrometre = 10^{-6} m
$\mu g/m^2/s$	microgram per square metres per second
$\mu g/m^3$	microgram per cubic metre
W/m^2	Watts per square metre