

ASSESSMENT OF THE ENVIRONMENTAL EFFECTS

GLOSSARY OF TERMS

ADT	Articulated Dump Truck
AFR	Alternative Fuels and Raw Materials
Al	Aluminium
ANZECC	Australian and New Zealand Environment and Conservation Council
As	Arsenic
ASIL	Acceptable Source Impact Levels
ATDSR	Agency for Toxic Substances and Disease Registry
BaP	Benzo(a)Pyrene
Bcm	Bank (insitu) cubic meters
BMD	Benchmark Dose
BOD	Biochemical Oxygen Demand
BOQ	Bill of Quantities
°C	Degrees Centigrade
C	Carbon
Ca	Calcium
CaCO ₃	Calcium carbonate (Limestone)
Cd	Cadmium
Cl	Chlorine
Co	Cobalt
CO	Carbon monoxide
CO ₂	Carbon dioxide
Cr	Chromium
Cu	Copper
dB	Decibels
dBA	The most common unit used in relation to environmental noise. The “A” weighting applied to decibels is designed to represent the sensitivity of the ear
DIA	Direct Social Impact Area
dL	Deci-litre or 0.1 litre
EC	Environment Canterbury
ELF	Engineered Land Forms

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EMR	Emission Monitoring and Reporting
EPA	Environmental Protection Agency
ESL	Environmental Screening Level
Fe	Iron
FEL	Front End Loader
FEV ₁	Forced Expiratory Volume in the first second
GCWA	German Cement Works Association
Gypsum	Calcium sulphate
H	Hydrogen
H	Height
H ₂ SO ₄	Sulphuric acid
ha	Hectare(s)
Hb	Haemoglobin
HCl	Hydrogen Chloride
Hg	Mercury
HNO ₃	Nitric acid
HSNO	Hazardous Substances and New Organisms Act 1996
IARC	International Agency for Research on Cancer
IGPG	Industry Good Practice Guide
ISO	International Organization for Standardisation
K	Potassium
<i>Kaika</i>	Small settlements or place to stop while travelling
klcm	Thousands of loose cubic metres
kg	Kilogram(s)
km	Kilometre(s)
kph	Kilometres per hour
kV	Kilo volts
L	Litre(s)
L _E	The single event level, L _E , is the entire energy of an event expressed as the level that would exist if all this energy occurred in 1 second
L _{eq}	An energy based average – it is the constant level which would give the same amount of acoustical energy as the time varying noise source being considered. The L _{eq} is often used to

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	represent the ambient noise
L_{dn}	The day-night level, L_{dn} is essentially an L_{eq} assessed over a 24 hour time period, but the predicted/measured noise levels at night are increased by 10 dB to give weighting to the greater annoyance caused by noise during the night.
L_{10}	Most noise sources are not constant and it is common to describe them in terms of a statistical analysis. The L_{10} noise level is the level which is exceeded for 10% of any measurement period, and is often used to represent activity noise
L_{95}	The level which is exceeded for 95% of any measurement period, and represents the “background” noise level
L_{max}	The maximum noise level during the measurement period. In this report the L_{max} is always evaluated with the fast time weighting
Limestone	Sedimentary rock composed principally of calcium carbonate
LOAEL	Lowest Observed Adverse Effects Level
L/s	Litres per second
LSF	Lime Saturation Factor
m	Metres
m^2/d	Square Metres per day
m^3	Cubic Metres
<i>Mahika kai</i>	Sources of gathered food
MBR	Membrane Bioreactor
MfE	Ministry for the Environment
Mg	Magnesium
mg	Milligram(s)
mg/Nm^3	Milligrams per Normal cubic metre
MJ/t	Mega joules per tonne
Mlcm	Million loose cubic metres
mm	Millimetre
Mn	Manganese
MRL	Minimum Risk Level
m/s	Metres per second
MW	Megawatt
μm	Micrometre
μg	Microgram
$\mu g/m^3$	Micrograms per cubic metre
Na	Sodium
NES	National Environmental Standards

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Ni	Nickel
NH ₄ NO ₃	Ammonium nitrate
Nm ³	Normal cubic metre
NO	Nitrogen oxide
NO ₂	Nitrogen dioxide
NOx	Nitrogen oxides
NOAEL	No Observed Adverse Effects Level
NRFA	National Rural Fire Authority
NZAAQG	New Zealand Ambient Air Quality Guidelines
NZFS	New Zealand Fire Service
O	Oxygen
O ₃	Ozone
OPC	Ordinary Portland Cement
ORAAQG	Otago Regional Council Ambient Air Quality Guidelines
ORC	Otago Regional Council
PAH	Polycyclic Aromatic Compound
Pb	Lead
PCB	Polychlorinated Biphenyl
PCDDs	Polychlorinated dibenzodioxins
PCDFs	Polychlorinated dibenzofurans
pH	Measurement of concentration of hydronic ions (acidity/alkalinity)
PM ₁₀	Particles of less than 10 µm in aerodynamic diameter
PM _{2.5}	Particles of less than 2.5 µm in aerodynamic diameter
RMA	Resource Management Act 1991
ROM	Run of mine
S	Sulphur
Sb	Antimony
SCNR	Selective non-catalytic reduction (system)
Si	Silica
SIA	Social Impact Assessment
Siltstone	Fine-grained sedimentary rock composed of detrital material in the size range of up to around 60 microns
SO ₂	Sulphur Dioxide
Steady State	Refers to when the sequence allows direct placement of

	excavated overburden and soil within the pit confines
Swell	Increase in volume when material is excavated, expressed as a percentage of insitu volume (e.g. 20%)
t	Tonne(s)
<i>Taonga</i>	Treasures
TCEQ	Texas Commission on Environmental Quality
TEQ	Toxic equivalent
<i>Tikanga</i>	Beliefs or customs
TI	Thallium
TPBR	Textile Packed Bed Reactor
tpd	Tonnes per day
t/m ³	Tonnes per (bank) cubic metre
TN	Total Nitrogen
TSP	Total Suspended Particulate
TSS	Total Suspended Solids
Tuff	Rock formed from volcanic ash fragments with a size of less than 2mm diameter
<i>Tupuna</i>	Ancestors
USEPA	United States Environmental Protection Agency.
V	Volume
V	Vanadium
VOC	Volatile Organic Compounds
vpd	Vehicles per day
WES	Workplace Exposure Standards
WHO	World Health Organisation
WIA	Wider Social Impact Area
WTP	Water Treatment Plant
wt%	Weight percent