LOWER FITZROY RIVER INFRASTRUCTURE PROJECT

Appendix C

Glossary and abbreviations







Glossary and Abbreviations

Project specific terminology

| Abbreviation | Term |
|---------------|---|
| Project | Lower Fitzroy River Infrastructure Project |
| the EIS | Lower Fitzroy River Infrastructure Project environmental impact statement |
| the Proponent | Gladstone Area Water Board and SunWater Limited |

Acronyms and abbreviations

| Acronym | Term |
|----------|--|
| AADT | Annual Average Daily Traffic |
| AATOC | Annual Average Time of Closure |
| ABS | Australian Bureau of Statistics |
| ADT | Average Daily Traffic |
| ACH Act | Aboriginal Cultural Heritage Act 2003 (Qld) |
| ADG Code | Australian Code for the Transport of Dangerous Goods by Road and Rail |
| ADWG | Australian Drinking Water Guidelines |
| AEP | Annual Exceedance Probability |
| AHD | Australian Height Datum |
| ALC | Agricultural Land Class |
| AMTD | Adopted middle thread distance |
| ANZECC | Australia and New Zealand Environmental Conservation Council |
| ARI | Average recurrence interval |
| ARMCANZ | Agriculture and Resource Management Council of Australia and New Zealand |
| ANCOLD | Australian National Committee on Large Dams |
| AS | Australian Standard |
| AS/NZS | Australian Standard/New Zealand Standard |
| ASS | Acid Sulfate Soils |
| ATSI | Aboriginal and Torres Strait Islander |
| AUL | Auxiliary left turn |
| AUL(S) | Auxiliary left turn (with a short left turn slot) |
| AUR | Auxiliary right turn |

| Acronym | Term |
|-----------------|--|
| AWQG | Australian Water Quality Guidelines |
| BAL | Basic left turn |
| BAMM | Biodiversity Assessment and Mapping Methodology |
| BAR | Basic right turn |
| BCA | |
| | Benefit Cost Analysis |
| BCR | Benefit Cost Ratio |
| BHC | Benzene hexachloride |
| BoM | Bureau of Meteorology |
| CAMBA | China-Australia Migratory Bird Agreement |
| CCIS | Climate Change Impact Statement |
| CEC | Cation Exchange Capacity |
| CEMP | Construction environmental management plan |
| CFI | Carbon Farming Initiative |
| CH | Chromosols |
| CH ₄ | Methane |
| CHMP | Cultural Heritage Management Plan |
| CHRC | Central Highlands Regional Council |
| CHR(S) | Channelized Right Turn Treatment with a Short Turn Slot |
| CID | Community Infrastructure Designation |
| CLR | Contaminated Land Register |
| CO | Carbon Monoxide |
| CO ₂ | Carbon Dioxide |
| CQCHM | Central Queensland Cultural Heritage Management Pty Ltd |
| CQRP | Central Queensland Regional Plan |
| CQIRP | Central Queensland Integrated Rail Project |
| CQRWSS | Central Queensland Regional Water Supply Strategy |
| CSIRO | Commonwealth Scientific and Industrial Research Organisation |
| CSG | Coal Seam Gas |
| DAF | Department of Agriculture and Fisheries |
| DAFF | Department of Agriculture, Fisheries and Forestry |
| | |

| Acronym | Term |
|---------------|---|
| DATSIMA | Department of Aboriginal and Torres Strait Islander and Multicultural Affairs |
| DCCEE | Former Department of Climate Change and Energy Efficiency |
| DDT | Dichlorodiphenyltrichloroethane |
| DE | Dermosols |
| DEEDI | Former Department of Employment, Economic Development and Innovation |
| DEHP | Department of Environment and Heritage Protection |
| DERM | Former Department of Environment and Resource Management |
| DEWHA | Former Department of the Environment, Water, Heritage and the Arts |
| DEWS | Department of Energy and Water Supply |
| DMP | Damage Mitigation Permit |
| DNRM | Department of Natural Resources and Mines |
| DO | Dissolved oxygen |
| DoE | Department of the Environment |
| DOGIT | Deed of Grant in Trust |
| DPI | Former Department of Primary Industries |
| DIP | Former Queensland Department of Infrastructure and Planning |
| DSD | Department of State Development |
| DSDIP | Department of State Development, Infrastructure and Planning |
| DSEWPaC | Former Department of Sustainability, Environment, Water, Population and Communities |
| DSITIA | Department of Science, Information Technology, Innovation and the Arts |
| DTMR | Department of Transport and Main Roads |
| ЕВ | Eden Bann Weir |
| EC | Electrical conductivity |
| EFOs | Environmental flow objectives |
| EIS | Environmental Impact Statement |
| EMP | Environmental management plan |
| EMQ | Emergency Management Queensland |
| EMR | Environmental Management Register |
| EO Act | Environmental Offsets Act 2014 |
| EO Regulation | Environmental Offsets Regulation 2014 |

| Acronym | Term |
|---------------|---|
| EO Policy | Queensland Environmental Offsets Policy Version 1.0 |
| EP Act | Environmental Protection Act 1994 (Qld) |
| EP Regulation | Environmental Protection Regulation 2008 |
| EPBC Act | Environment Protection and Biodiversity Conservation Act 1999 (Cth) |
| EPC | Exploration Permits for Coal |
| EPM | Exploration Permits for Minerals |
| EPP | Exploration Permits for Petroleum |
| EPP | Environmental Protection Policy / Policies |
| EPP Water | Environmental Protection Policy Water |
| ERA | Environmentally Relevant Activity / Activities |
| ESA | Equivalent Standard Axle |
| ESAL | Equivalent Standard Axle Load |
| ESAs | Environmentally Sensitive Areas |
| ESCP | Erosion and Sediment Control Plan |
| ESD | Ecologically Sustainable Development |
| EVR | Endangered, vulnerable and rare |
| FBA | Fitzroy Basin Association |
| FE | Ferrosols |
| FH | Freehold |
| FIA | Failure impact assessment |
| FPFW | First Post Winter Flow |
| FSC | Fitzroy Shire Council |
| FSL | Full supply level |
| FTE | Full Time Equivalent |
| FullCAM | Full Carbon Accounting Model |
| GARID | Guidelines for Assessment of Road Impacts of Development |
| GAWB | Gladstone Area Water Board |
| GBRMP | Great Barrier Reef Marine Park |
| GBRMP Act | Great Barrier Reef Marine Park Act 1975 (Cth) |
| GBRMPA | Great Barrier Reef Marine Park Authority |

| Acronym | Term |
|-------------|---|
| GBRWHA | Great Barrier Reef World Heritage Area |
| GDE | Groundwater dependent ecosystem |
| GFP | Proposed Gladstone-Fitzroy Pipeline |
| GHG | Greenhouse gas |
| GMA | Groundwater management area |
| GMU | Groundwater management units |
| GRC | Gladstone Regional Council |
| GQAL | Good quality agricultural land |
| GVA | Gross Value Added |
| GSDA | Gladstone State Development Area |
| НВ | Handbook |
| HEP | Human error probability |
| HEV | High Ecological Value |
| HSE | Health, Safety and Environment |
| IAA | Important Agricultural Area |
| IAIA | International Association for Impact Assessment |
| IAS | Initial Advice Statement |
| ICN Gateway | Industry Capability Network Gateway |
| ICOMOS | International Council on Monuments and Sites |
| IDAS | Integrated Development Assessment System |
| IECA | International Erosion Control Association |
| IPA2 | International Association of Public Participation |
| IPCC | Intergovernmental Panel on Climate Change |
| IQQM | Integrated Quantity and Quality Model |
| JAMBA | Japan-Australia Migratory Bird Agreement |
| KA | Kandosols |
| KRA | Key Resource Area/Areas |
| KU | Kurosols |
| LFRIP | Lower Fitzroy River Infrastructure Project |
| LGA | Local Government Area |

| Acronym | Term |
|------------------|--|
| LL | Lands Lease |
| LOS | Level of Service |
| LP Act | Land Protection (Pest and Stock Route Management) Act 2002 (Qld) |
| LSC | Livingstone Shire Council |
| MCU | Material Change of Use |
| MDL | Mineral Development Licences |
| MIC | Maximum Instantaneous Charge |
| ML | Mining Lease |
| MNES | Matters of national environmental significance |
| N ₂ O | Nitrous Oxide |
| NC Act | Nature Conservation Act 1992 (NC Act) |
| NEPM | National Environmental Protection Measure |
| NGA | National Greenhouse Account |
| NGER Act | National Greenhouse and Energy Reporting Act 2007 (Qld) |
| NGERS | National Greenhouse and Energy Reporting Scheme |
| NHMRC | National Health and Medical Research Council |
| NO ₂ | Nitrogen Dioxide |
| NO _x | Nitrogen oxides (NO (nitric oxide) and NO ₂) |
| NPI | National Pollution Inventory |
| NPV | Net Present Value |
| NROLA | Natural Resources and Other Legislation Amendment Act 2010 (Qld) |
| NSESD | National Strategy for Ecologically Sustainable Development |
| NT Act | Native Title Act 1993 (Qld) |
| NWQMS | National Water Quality Management Strategy |
| O_3 | Ozone |
| OEMP | Operation environmental management plan |
| OESR | Office of Economic and Statistical Research |
| PAA | Priority Agricultural Areas |
| PAR | Population at risk |
| PASS | Potential Acid Sulfate Soils |



| Acronym | Term |
|---------|---|
| PGA | peak ground acceleration |
| PIF | Private Infrastructure Facility |
| PLA | Priority Living Area |
| PLC | Programmable logic control |
| PPE | Personal Protective Equipment |
| PPL | Petroleum pipeline licence |
| PPV | Peak Particle Velocity |
| PRs | Performance requirements (under RVMC) |
| PV | Present Value |
| PVMO | Queensland Policy for Vegetation Management Offsets Version 3, 2011 |
| QASSIT | Queensland Acid Sulfate Soils Investigation Team |
| QBOP | Queensland Biodiversity Offset Policy Version 1, 2011 |
| QCCCE | Queensland Climate Change Centre of Excellence |
| QGEOP | Queensland Government Environmental Offsets Policy |
| QH Act | Queensland Heritage Act 1992 |
| QPS | Queensland Police Service |
| QWQG | Queensland Water Quality Guidelines |
| RAP | Risk Adjusted Price |
| RCC | Roller compacted concrete |
| RE | Regional Ecosystem/s |
| REV | Relative Ecological Value |
| ROKAMBA | Republic of Korea-Australia Migratory Bird Agreement |
| ROL | Resource operations licence |
| ROP | Resource Operations Plan |
| RRC | Rockhampton Regional Council |
| RPI Act | Regional Planning Interests Act 2014 (Qld) |
| RU | Rudosols |
| RVMC | Regional Vegetation Management Code for Brigalow Belt and New England Tablelands Bioregions - Version 2.1 |
| RW | Rookwood Weir |
| SARA | State Assessment and Referral Agency |

| SCA Strategic Cropping Areas SCADA Supervisory Control and Data Acquisition SCL Strategic cropping land SCL Act Strategic Cropping Land Act 2011 SCR State-controlled roads SDAP State Development Assessment Provisions SDPWO Act State Development Public Works Organisation Act 1971 (Qld) SEA Strategic Environmental Areas SEIS Supplementary Environmental Impact Statement SES State Emergency Service |
|--|
| SCL Strategic cropping land SCL Act Strategic Cropping Land Act 2011 SCR State-controlled roads SDAP State Development Assessment Provisions SDPWO Act State Development Public Works Organisation Act 1971 (Qld) SEA Strategic Environmental Areas SEIS Supplementary Environmental Impact Statement |
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| SEA Strategic Environmental Areas SEIS Supplementary Environmental Impact Statement |
| SEIS Supplementary Environmental Impact Statement |
| |
| SES State Emergency Service |
| |
| SF State Forest |
| SIA Social Impact Assessment |
| SiD Safety in Design |
| SMP Species Management Program |
| SO Sodosols |
| SO ₂ Sulfur Dioxide |
| SOI Southern Oscillation Index |
| SP Act Sustainable Planning Act 2009 (Qld) |
| SPL Sound pressure level |
| SPP State Planning Policy / Policies |
| SRES Special Report on Emissions Scenarios |
| SRN Stock Route Network |
| SWER Single Wire Earth Return |
| SWL Sound power level |
| TE Tenosols |
| TECs Threatened Ecological Communities |
| TI Act Transport Infrastructure Act 1994 (Qld) |
| TIA Traffic Impact Assessment |
| TMP Traffic management plan |
| TN Total Nitrogen |

| Acronym | Term |
|-----------|--|
| ToR | Terms of Reference |
| TP | Total Phosphorus |
| TSS | Total Suspended Solids |
| UAs | Unincorporated areas |
| USL | Unallocated State Land |
| VE | Vertosols |
| VM Act | Vegetation Management Act 1999 (Qld) |
| VOCs | Volatile Organic Compounds |
| WASO | Water allocation security objective |
| WASC | Woorabinda Aboriginal Shire Council |
| Water Act | Water Act 2000 (Qld) |
| WAVs | Worker accommodation villages |
| WBBCC | Wide Bay Burnett Conservation Council |
| WHS Act | Work Health and Safety Act 2011 (Qld) |
| WONS | Weeds of National Significance |
| WQO | Water Quality Objective |
| WRP | Water Resource Plan |
| WRR Act | Waste Reduction and Recycling Act 2011 (Qld) |

Glossary

| Term | Definition |
|-------------------------|---|
| 2-times base flow event | A post-winter flow year in which the days of flow twice base flow are not more than 4 days fewer than the days of flow twice base flow in the year for the predevelopment flow pattern. |
| 2-week lag event | A first post-winter flow event that starts within 2 weeks after the date the first post-winter flow event starts in the same year for the pre-development flow pattern. |
| 4-week lag event | A first post-winter flow event that starts within 4 weeks after the date the first post-winter flow event starts in the same year for the pre-development flow pattern. |
| 5-times base flow event | A post-winter flow year in which the days of flow 5-times base flow are not more than 4 days fewer than the days of flow 5-times base flow in the year for the predevelopment flow pattern. |
| Average flow volume | The average of the volume ratios in the post-winter flow years in the simulation period. |
| Average peak | The average of the peak flow ratios for the post-winter flow years in the |



| Term | Definition |
|------------------------------------|--|
| flow | simulation period. |
| Channel morphology statistic | The annual peak daily flow volume in the simulation period with an annual probability of exceedance of 50%. |
| Daily flow | The volume of water that flows past a node in a day. |
| Days of flow 5- times base flow | The number of days in a first post-winter flow event on which the daily flow is at least 5 times the seasonal base flow. |
| Days of flow twice base flow | The number of days in a first post-winter flow event on which the daily flow is at least twice the seasonal base flow. |
| dB | Decibel is the unit used for expressing the sound pressure level (SPL) or power level (SWL) in acoustics. |
| dB(A) | Frequency weighting filter used to measure 'A-weighted' sound pressure levels, which conforms approximately to the human ear response, as our hearing is less sensitive at very low and very high frequencies. |
| Event volume | The total daily flows for a first post-winter flow event. However, if the event volume calculated under paragraph 1 is greater than the volume of the estuary of the Fitzroy River, the event volume is the estuary volume. |
| First peak flow | The daily flow on the first day in a first post-winter flow event on which the flow reaches a peak. However, if the first peak flow calculated under paragraph 1 is greater than the daily flow for a flow with a depth of 3m (a 3-metre event), the first peak flow is the daily flow for a 3-metre event. |
| First post-winter flow event | a) starts between 15 September and 10 April in the year; and b) lasts for 21 days; and c) the chief executive is satisfied meets the following criteria— i. for a node other than node 0, the flow, within 6 days after its start, is greater than a flow with a depth of 1.5 m; ii. for node 0, the flow at its start is at least 5000 ML a day; iii. for a flow that starts in September, the water temperature is at least 23 °C; iv. the flow, for a node, for the duration of the event, is greater than the seasonal base flow mentioned for the node in part 1; v. for a node other than node 0, the first peak in the flow that is greater than a flow with a depth of 1.5 m happens within 6 days after the start of the event; vi. for node 0, the event has an event volume greater than half the volume of the estuary of the Fitzroy River. However, a first post-winter flow event does not include a flow that happens in a year in the simulation period for which a flow satisfying the requirements of paragraph 1 did not happen for the pre-development flow pattern. |
| Fish species diversity statistic | The annual proportional flow deviation which is a statistical measure of changes to both flow seasonality and volume as defined by the following formula when applied to the simulation period— |

| Term | Definition |
|------------------------------------|--|
| | $\mathbf{APFD} = \sum_{j=1}^{p} \frac{\sqrt{\sum_{i=1}^{12} \left\{ \frac{\mathbf{c}_{ij} - \mathbf{n}_{ij}}{\overline{\mathbf{n}}_{i}} \right\}^{2}}}{p}$ |
| | where— |
| | P = number of years in the simulation period |
| | cij = modelled existing flow for month i in year j |
| | n_{ij} = modelled natural flow for month i in year j |
| | \tilde{n}_i = mean natural flow for month i across p years Σ = the sum of |
| Flood plain zone statistic | The number of flows in the simulation period which reach a level assessed as being required to inundate flood plain habitats. |
| Flow duration (2-times base flow) | The number of 2-times base flow events in the simulation period, expressed as a percentage of the number of post-winter flow years in the period. |
| Flow duration (5-times base flow) | The number of 5-times base flow events in the simulation period, expressed as a percentage of the number of post-winter flow years in the period. |
| In-channel riparian zone statistic | The number of flows in the simulation period which reach a level assessed as being required to inundate instream habitats to mid-channel levels. |
| L _{A1(period)} | The sound pressure level that is exceeded for 1% of the measurement period. |
| L _{A1} , adj (1hr) | Adjusted sound pressure level that is exceeded for 1% of the measurement period. The adjustment is made in accordance with AS1055.1 -1997 to account for tonal or impulsive characteristics of the subject noise. |
| L _{A10(period)} | The sound pressure level that is exceeded for 10% of the measurement period. |
| LA10, adj (1hr) | Adjusted sound pressure level that is exceeded for 10% of the measurement period. The adjustment is made in accordance with AS1055.1 -1997 to account for tonal or impulsive characteristics of the subject noise. |
| L _{A90(period)} | The sound pressure level that is exceeded for 90% of the measurement period. |
| L _{Aeq} (period) | Equivalent sound pressure level: the steady sound level that, over a specified period of time, would produce the same energy equivalence as the fluctuating sound level actually occurring. |
| L _{Aeq, adj (1hr)} | Adjusted equivalent sound pressure level over 1 hour. The adjustment is made in accordance with AS1055.1 -1997 to account for tonal or impulsive characteristics of the subject noise. |
| L _{Amax} | The maximum sound level recorded during the measurement period. |
| Marine and | The total volume of flow at the Fitzroy Barrage during the months of January, |

| Term | Definition |
|--|--|
| estuarine processes statistic | February, March and April in the simulation period divided by the number of years in the simulation period. |
| Mean annual flow | The total volume of flow in the simulation period divided by the number of years in the simulation period. |
| Median annual flow | The annual flow volume that is equalled or exceeded in 50% of years within the simulation period. |
| Noise sensitive receptor | An area or place potentially affected by noise which may include: A residential dwelling An educational institution, library, childcare centre or kindergarten A hospital, surgery or other medical institution An active (e.g. sports field, golf course) or passive (e.g. national park) recreational area Commercial or industrial premises A place of worship. |
| Number of first post-winter flows | The number of first post-winter flow events in the simulation period expressed as a percentage of the number of post-winter flow years in the period. |
| Number of flows within 2 weeks of the pre- development event | The number of 2-week lag events in the simulation period, expressed as a percentage of the number of 4-week lag events in the period. |
| Number of flows within 4 weeks of the pre- development event | The number of 4-week lag events in the simulation period, expressed as a percentage of the number of post-winter flow years in the period. |
| Peak flow ratio | The first peak flow for a year expressed as a percentage of the first peak flow for the year for the pre-development flow pattern. |
| Peak Particle Velocity (PPV) | Peak Particle Velocity, is the maximum vector sum of three orthogonal time- synchronized velocity components regardless of whether these component maxima occurred simultaneously. |
| Post-winter flow year | A year in the simulation period in which a first post-winter flow event happens for the pre-development flow pattern. |
| Rating Background Level | The overall single-figure background level representing each assessment period (day/evening/night) over the whole monitoring period. |
| Upper riparian zone statistic | The number of flows in the simulation period which reach a level assessed as being required to inundate instream habitats to bank-full levels. |
| Vibration | The variation of the magnitude of a quantity which is descriptive of the motion or position of a mechanical system, when the magnitude is alternately greater and smaller than some average value or reference. Vibration can be measured in terms of its displacement, velocity or acceleration. |
| | The common units for velocity are millimetres per second (mm/s). |
| Volume ratio | The event volume for a year, expressed as a percentage of the event volume for the year for the pre-development flow pattern. |

Symbols and units of measurement

| Equal to or great than Al Aluminium C Degrees Celsius CO ₂ -e CO ₂ -equivalent Cu Copper dB Decibel EL Elevation in metres above sea level Fe Iron ha Hectare Hz Hertz kg/a Kilograms per annum km Kilometre km² Square kilometre km/hr Kilometres per hour kt/a Kilo tonnes per annum kV Kilovolt kVA Kilovolt-ampere L _{Aeq(period)} Equivalent sound pressure level over a specified period of time m Metre m/s Metres per second | Symbol / unit | Definition |
|--|--------------------------|---|
| OC Degrees Celsius CO ₂ -e CO ₂ -equivalent Cu Copper dB Decibel EL Elevation in metres above sea level Fe Iron ha Hectare Hz Hertz kg/a Kilograms per annum km Kilometre km² Square kilometre km/hr Kilometres per hour kt/a Kilo tonnes per annum kV Kilovolt kVA Kilovolt-ampere LAeq(period) Metre | ≥ | Equal to or great than |
| CO ₂ -e CO ₂ -equivalent Cu Copper dB Decibel EL Elevation in metres above sea level Fe Iron ha Hectare Hz Hertz kg/a Kilograms per annum km Kilometre km² Square kilometre km/hr Kilometres per hour kt/a Kilo tonnes per annum kV Kilovolt kVA Kilovolt-ampere LAeq(period) Equivalent sound pressure level over a specified period of time m Metre | Al | Aluminium |
| Cu Copper dB Decibel EL Elevation in metres above sea level Fe Iron ha Hectare Hz Hertz kg/a Kilograms per annum km Kilometre km² Square kilometre km/hr Kilometres per hour kt/a Kilo tonnes per annum kV Kilovolt kVA Kilovolt-ampere LAeq(period) Equivalent sound pressure level over a specified period of time m Metre | °C | Degrees Celsius |
| BL Elevation in metres above sea level Fe Iron ha Hectare Hz Hertz kg/a Kilograms per annum km Kilometre km² Square kilometre km/hr Kilometres per hour kt/a Kilo tonnes per annum kV Kilovolt kVA Kilovolt-ampere LAeq(period) Equivalent sound pressure level over a specified period of time m Metre | CO ₂ -e | CO ₂ -equivalent |
| EL Elevation in metres above sea level Fe Iron ha Hectare Hz Hertz kg/a Kilograms per annum km Kilometre km² Square kilometre km/hr Kilometres per hour kt/a Kilo tonnes per annum kV Kilovolt kVA Kilovolt-ampere LAeq(period) Equivalent sound pressure level over a specified period of time m Metre | Cu | Copper |
| Fe Iron ha Hectare Hz Hertz kg/a Kilograms per annum km Kilometre km² Square kilometre km/hr Kilometres per hour kt/a Kilo tonnes per annum kV Kilovolt kVA Kilovolt-ampere LAeq(period) Equivalent sound pressure level over a specified period of time m Metre | dB | Decibel |
| ha Hectare Hz Hertz kg/a Kilograms per annum km Kilometre km² Square kilometre km/hr Kilometres per hour kt/a Kilo tonnes per annum kV Kilovolt kVA Kilovolt-ampere Laeq(period) Equivalent sound pressure level over a specified period of time m Metre | EL | Elevation in metres above sea level |
| Hz Hertz kg/a Kilograms per annum km Kilometre km² Square kilometre km/hr Kilometres per hour kt/a Kilo tonnes per annum kV Kilovolt kVA Kilovolt-ampere LAeq(period) Equivalent sound pressure level over a specified period of time m Metre | Fe | Iron |
| kg/a Kilograms per annum km Kilometre km² Square kilometre km/hr Kilometres per hour kt/a Kilo tonnes per annum kV Kilovolt kVA Kilovolt-ampere LAeq(period) Equivalent sound pressure level over a specified period of time m Metre | ha | Hectare |
| km Kilometre km² Square kilometre km/hr Kilometres per hour kt/a Kilo tonnes per annum kV Kilovolt kVA Kilovolt-ampere LAeq(period) Equivalent sound pressure level over a specified period of time m Metre | Hz | Hertz |
| km² Square kilometre km/hr Kilometres per hour kt/a Kilo tonnes per annum kV Kilovolt kVA Kilovolt-ampere LAeq(period) Equivalent sound pressure level over a specified period of time m Metre | kg/a | Kilograms per annum |
| km/hr Kilometres per hour kt/a Kilo tonnes per annum kV Kilovolt kVA Kilovolt-ampere L _{Aeq(period)} Equivalent sound pressure level over a specified period of time m Metre | km | Kilometre |
| kt/a Kilo tonnes per annum kV Kilovolt kVA Kilovolt-ampere L _{Aeq(period)} Equivalent sound pressure level over a specified period of time m Metre | km² | Square kilometre |
| kV Kilovolt kVA Kilovolt-ampere L _{Aeq(period)} Equivalent sound pressure level over a specified period of time m Metre | km/hr | Kilometres per hour |
| kVA Kilovolt-ampere L _{Aeq(period)} Equivalent sound pressure level over a specified period of time m Metre | kt/a | Kilo tonnes per annum |
| L _{Aeq(period)} Equivalent sound pressure level over a specified period of time m Metre | kV | Kilovolt |
| m Metre | kVA | Kilovolt-ampere |
| | L _{Aeq(period)} | Equivalent sound pressure level over a specified period of time |
| m/s Metres per second | m | Metre |
| | m/s | Metres per second |
| m ³ Cubic metre | m^3 | Cubic metre |
| m³/s Cubic metres per second | m³/s | Cubic metres per second |
| Mg Magnesium | Mg | Magnesium |
| mg/L Milligrams per litre | mg/L | Milligrams per litre |
| mg/m³ Milligrams per cubic metre | mg/m ³ | Milligrams per cubic metre |
| ML Million litres or megalitre | ML | Million litres or megalitre |
| ML/a Mega litre per annum | ML/a | Mega litre per annum |
| ML/d Mega litre per day | ML/d | Mega litre per day |
| mm Millimetres | mm | Millimetres |
| MMI Modified Mercalli Intensity | MMI | Modified Mercalli Intensity |
| Mn Manganese | Mn | Manganese |
| Mt/y Mega tonnes per year | Mt/y | Mega tonnes per year |
| N Nitrates | N | Nitrates |

| Symbol / unit | Definition |
|----------------------|--|
| Р | Phosphates |
| Pb | Lead |
| PJ | Petajoules |
| $PM_{2.5} / PM_{10}$ | Particles of 2.5 µm and 10 µm equivalent aerodynamic diameter or less |
| μg/L | Micrograms per litre |
| μm | Micrometre |
| μS/cm | Micro Siemens per centimetre (measure of electrical conductivity in water) |
| NTU | Nephelometric Turbidity Units |
| RL | Reduced level |
| t/a | Tonnes per annum |
| t CO ₂ -e | Tonnes of CO ₂ -equivalent emissions |
| t/ha | Tonnes per hectare |
| Zn | Zinc |

