C9.0 Attenuation Code

C9.1 Code Purpose

The purpose of the Attenuation Code is:

- C9.1.1 To minimise adverse impacts on the health, safety and amenity of sensitive use from activities which have the potential to cause emissions.
- C9.1.2 To minimise the likelihood for sensitive use to conflict with, interfere with, or constrain, activities which have the potential to cause emissions.

C9.2 Application of this Code

- C9.2.1 This code applies to:
 - (a) activities listed in Tables C9.1 and C9.2;
 - (b) sensitive uses; and
 - (c) subdivision if it creates a lot where a sensitive use could be established, within an attenuation area.
- C9.2.2 The code does not apply to attenuation areas between the activities listed in Tables C9.1 and C9.2 where those activities occur within the Light Industrial Zone, General Industrial Zone, Port and Marine Zone, and Utilities Zone.
- C9.2.3 The code does not apply to sensitive uses occurring within the Light Industrial Zone, General Industrial Zone, Port and Marine Zone, and Utilities Zone.
- C9.2.4 The code does not apply to a plant nursery or controlled environment agriculture activities occurring within the Rural Zone and Agriculture Zone.

C9.3 Definition of Terms

C9.3.1 In this code, unless the contrary intention appears:

| Term | Definition |
|------------------|--|
| aerated lagoon | means a lagoon with mechanical aerators sufficient to transfer the oxygen required for biological treatment of sewage and to maintain solids in suspension to undergo aerobic decomposition. |
| aerobic lagoon | means a lagoon where the water column is characterised by aerobic conditions, being where oxygen is freely available for biological purposes. |
| anaerobic lagoon | means a lagoon where the water column is characterised by anaerobic conditions, being where oxygen is totally depleted and oxidised nitrogen is absent. |

| Term | Definition |
|----------------------|---|
| attenuation area | means land that is: (a) within the boundary of an attenuation area shown on an overlay map in the relevant Local Provisions Schedule; or |
| | (b) within the relevant attenuation distance from an activity listed in Table C9.1 or C9.2, which is an existing activity or an activity for which a planning permit is in force. |
| | If an inconsistency exists between the relevant attenuation distance in Tables C9.1 or C9.2, and an attenuation area shown on an overlay map in the relevant Local Provisions Schedule, the distance shown on the overlay map applies. |
| attenuation distance | means the distance listed in Tables C9.1 and C9.2 for the relevant activity measured as the shortest distance from the boundary of the site on which the activity is located. |
| facultative lagoon | means a lagoon similar to an aerobic lagoon, but with lower energy input, sufficient to transfer the oxygen required to biological treatment of sewage but not to maintain solids in suspension which settle onto the lagoon floor and undergo anaerobic decomposition. |
| level 1 activity | means as defined in the Environmental Management and Pollution Control Act 1994. |

C9.4 Use or Development Exempt from this Code

- C9.4.1 The following use or development is exempt from this code:
 - (a) use or development assessed as a level 2 activity; and
 - (b) additions or alterations to an existing building used for sensitive use, provided that the gross floor area does not increase by more than 50% or 100m², whichever is the greater, from that existing at the effective date.

C9.5 Use Standards

C9.5.1 Activities with potential to cause emissions

| Objective: That an activity with potential to cause emissions is located so that it does not cause an unreasonable impact on an existing sensitive use. | | | | |
|---|---|--|------|---|
| Acceptable So | lutions | Performance Criteria | | ance Criteria |
| A 1 | | P1 | | |
| The attenuation C9.1 or C9.2 mg | area of an activity listed in Tables ust not include: | An activity listed in Tables C9.1 or C9.2 must not cause: | | y listed in Tables C9.1 or C9.2 must not |
| existing; | d for a sensitive use which is has a planning permit for a sensitive | (a) an unreasonable loss of amenity or unreasonable impacts on health and safety of a sensitive use which is existing, or has a plannir permit; or | | easonable impacts on health and safety of a sitive use which is existing, or has a planning |
| Inner Resi Residentia | n the General Residential Zone, dential Zone, Low Density al Zone, Rural Living Zone A, Rural e B, Village Zone or Urban Mixed | (b) unreasonable impacts on land within the relevant attenuation area that is in the Gener Residential Zone, Inner Residential Zone, Lo Density Residential Zone, Rural Living Zone Rural Living Zone B, Village Zone or Urban Mixed Use Zone, having regard to: | | vant attenuation area that is in the General idential Zone, Inner Residential Zone, Low sity Residential Zone, Rural Living Zone A, al Living Zone B, Village Zone or Urban |
| | | | (i) | operational characteristics of the activity; |
| | | | (ii) | scale and intensity of the activity; |
| | | (iii) degree of hazard or pollution that may b emitted from the activity; | | degree of hazard or pollution that may be emitted from the activity; |
| | | | (iv) | hours of operation of the activity; |
| | | | (v) | nature of likely emissions such as noise, odour, gases, dust, particulates, radiation, vibrations or waste; |
| | | | (vi) | existing emissions such as noise, odour, gases, dust, particulates, radiation, |

vibrations or waste; and

emissions from the activity.

(vii) measures to eliminate, mitigate or manage

C9.5.2 Sensitive use within an attenuation area

| Objective: | That sensitive use located within an attenuation area does not interfere with or constrain the operation of an existing activity listed in Tables C9.1 or C9.2. | | |
|-------------------------|---|---|--|
| Acceptable Sol | utions | Performance Criteria | |
| A1 | | P1 | |
| No Acceptable Solution. | | Sensitive use within an attenuation area, must not interfere with or constrain an existing activity listed in Tables C9.1 or C9.2, having regard to: | |
| | | (a) the nature of the activity with potential to cause emissions including: | |
| | | (i) operational characteristics of the activity; | |
| | | (ii) scale and intensity of the activity; and | |
| | | (iii) degree of hazard or pollution that may be emitted from the activity; | |
| | | (b) the nature of the sensitive use; | |
| | | (c) the extent of encroachment by the sensitive use into the attenuation area; | |
| | | (d) measures in the design, layout and construction of the development for the sensitive use to eliminate, mitigate or manage effects of emissions of the activity; | |
| | | (e) any advice from the Director, Environment Protection Authority; and | |
| | | (f) any advice from the Director of Mines. | |

C9.6 Development Standards for Subdivision

C9.6.1 Lot design

Objective:

To provide for subdivision so that a lot intended for a sensitive use:

- (a) is located to avoid an activity with potential to cause emissions and enable appropriate levels of amenity; and
- (b) does not conflict with, interfere with or constrain an existing activity with potential to cause emissions.

| A1 P1 | |
|---|--|
| | |
| within an attenuation area must: (a) be for the creation of separate lots for existing buildings; (b) be for the creation of a lot where a building for a sensitive use can be located entirely outside the attenuation area; or (c) not be for the creation of a lot intended for a sensitive use. within a potenti emission (a) the calculation area (ii) | |

Table C9.1 Attenuation Distances

| Activity | | Attenuation Distance | |
|--|--|----------------------|---------------------|
| | | Level 1 Activity | Level 2 Activity |
| Abattoir or slaughterhouse (primary) The conduct of meat processing within the meaning of the <i>Primary Produce Safety Act</i> 2011, excluding rendering or fat extraction works – emissions such as odour, noise, dust and light pollution | | 500m | 1,000m |
| Abrasive blasting The cleaning of materials by the abrasive action of any metal shot or mineral particulate propelled in a gaseous or liquid | Blasting in cabinets less than 5 cubic metres in volume or totally enclosed automatic blast cleaning units – emissions such as noise and dust. | 100m | - |
| medium. | All other types of operation – emissions such as noise and dust. | 300m | _ |
| Agricultural produce processing works The conduct of works for the processing of vegetables, seed, grain, or any other agricultural crop by deep fat frying or roasting or boiling or drying through application of heat – emissions such as odour and noise. | | 100m | 300m |
| Animal saleyard Yards for the holding of live animals pending such as odour, noise and dust. | g sale, shipment or slaughter–emissions | 500m | _ |
| Aquaculture operation | Marine or estuarine operations - emissions such as odour and noise. | 300m | _ |
| | Land operations - emissions such as odour and noise. | | _ |
| Bakery Excluding a bakery primarily selling produce directly to the public - emissions such as noise. | | 200m | _ |
| Beverage production (non-alcoholic) Beverage production plants with the capacity to produce more than 2000L per day - emissions such as odour and noise. | | 300m | _ |

| Activity | | Attenuation | n Distance |
|---|---|---------------------|---------------------|
| | | Level 1 Activity | Level 2 Activity |
| Biosolids application to land Class 2 biosolids as classified in accordance with the requirement of Sections 4 and 5 of the <i>Tasmanian Biosolids Reuse Guidelines 1999</i> – emissions such as odour, noise and disease vectors. | | 100m | 100m |
| Brewery or distillery The conduct of works for the production of I spirits by distillation with the capacity to prosuch as odour and noise. | | 200m | 500m |
| Cement works The conduct of works as described in Sche Management and Pollution Control Act 199 | • • | - | 2,000m |
| Ceramic works The conduct of works for the production of any products such as bricks, tiles, pipes, pottery goods, refractories or glass that are manufactured or are capable of being manufactured in furnaces or kilns fired by fuel – emissions such as noise and dust. | | 200m | 500m |
| Chemical works | The manufacture (through chemical reaction) of any inorganic chemical, including sulphuric acid, inorganic fertilisers, sodium silicate, lime or other calcium compound - emissions such as odour, noise and gases. | 300m | 1,000m |
| The manufacture (through chemical reaction) or processing of any organic chemicals or chemical product or petrochemical - emissions such as odour, noise and gases. | | 500m | 1,500m |
| Cidery | Bottling facilities only – emissions such as odour and noise. | 300m | - |
| | Cider production facilities— emissions such as odour and noise. | 500m | _ |

| Activity | | Attenuation Distance | |
|--|---|----------------------|---------------------|
| | | Level 1 Activity | Level 2 Activity |
| Composting works Excluding backyard composting for | Vegetation only - emissions such as odour and noise. | 250m | 500m |
| domestic use, on-farm composting for use on agricultural land having the same owner as the land on which the compost is produced, and works in respect of silage for use on agricultural land. | Human or animal wastes - emissions such as odour and noise. | 500m | 1,000m |
| Concrete batching plants The conduct of works for the production of cock, aggregate or other similar materials, eproducts - emissions such as noise and dust | excluding the manufacture of concrete | 200m | - |
| Concrete or stone product manufacture The conduct of works to manufacture concrebatching plants - emissions such as odour, | | 300m | _ |
| Crematoria Emissions such as odour and gases. | | 300m | _ |
| Dog kennels Commercial operations only – emissions su | ich as odour and noise. | 300m | _ |
| Effluent irrigation scheme | Spray irrigation | 200m | _ |
| Irrigation of land by treated sewage effluent. | Flood irrigation | 50m | _ |
| oao. | Drip irrigation | 20m | _ |
| | Storage lagoon/holding dams | 250m | _ |
| | Effluent transfer/irrigation pumps | 50m | _ |
| Feedlot Intensive animal husbandry (excluding piggeries, poultry farms, horse stables, and any such operation carried out at an abattoir, slaughterhouse or saleyard or for the purpose only of drought or other emergency feeding) – emissions such as odour, noise and dust. | | 3,000m | - |
| Fibreglass manufacture Manufacture of fibre-reinforced plastic produced | ucts - emissions such as odour and noise. | 300m | _ |

| Activity | | Attenuation Distance | |
|---|--|----------------------|---------------------|
| | | Level 1 Activity | Level 2 Activity |
| Fish processing The conduct of works for scaling, gilling, gutting, filleting, smoking, drying or otherwise processing fish for sale, other than by freezing, chilling or packing, excluding the processing of fish only in the course of a business selling fish directly to the public - emissions such as odour and noise. | | 250m | 500m |
| Flour mill Grain or seed milling works, excluding non- emissions such as noise and dust. | commercial processing for on farm use - | 300m | _ |
| Frost fan Emissions such as noise. | | 2,000m | _ |
| Fuel burning Excluding fuel burning associated with a domestic or on-farm use. | Waste incinerator: Wood waste - emissions such as odour, particles and gases. | 100m | 300m |
| | Waste incinerator: Plastic or rubber waste - emissions such as odour, particles and gases. | 500m | 1,000m |
| | Waste incinerator: Chemical, biomedical or organic waste - emissions such as odour, particles and gases. | 500m | 1,000m |
| | All other types of operation - emissions such as odour, particles and gases. | 100m | 300m |
| Gas pressure reduction facility A facility for altering the pressure between a gas transmission pipeline and a gas distribution system - emissions such as odour, noise and gases. | | 300m | _ |
| Horse stables Commercial operations only – emissions su | Horse stables Commercial operations only – emissions such as odour, noise and dust. | | - |
| Joinery Production of wooden furniture and household items such as doors, kitchen fittings, flooring and mouldings - emissions such as noise and dust | | 200m | _ |
| Liquid waste spray application to land | Primary treated | 500m | _ |
| Spray application of liquid fruit or vegetable wastes, excluding spray application of treated sewage effluent | Secondary treated | 200m | - |

| Activity | | Attenuation Distance | |
|---|--|----------------------|---------------------|
| | | Level 1 Activity | Level 2 Activity |
| Liquid waste treatment Lagoons for the treatment of wastewater, such as treatment of wastewater for wineries and cider production, excluding sewage treatment plants ¹ and organic waste treatment – emissions such as odour. | | 300m | - |
| Marinas Excluding maritime construction and mainte | enance works - emissions such as noise. | 200m | _ |
| Maritime construction and maintenance works The conduct of works for the construction, maintenance or repair of ships, vessels or | Organotin compounds used or removed from ships, vessels, or floating platforms or structures – emissions such as odour, noise, dust and gases. | 500m | _ |
| floating platforms or structures, being works with the capacity to construct or repair ships, vessels or floating platforms or structures. | All other types of operation – emissions such as odour, noise, dust and gases. | 300m | _ |
| Materials handling | Crushing or grinding. | 750m | 750m |
| Processing of chemicals, rubber, rock, ores and minerals by crushing, grinding, milling or separating into different sizes by sieving, air elutriation or in any other manner – emissions such as noise and dust. | Other methods. | 500m | 500m |
| Metal fabrication The fabrication of sheet metal, structural metal and other iron and steel products, excluding metallurgical works, and ferrous and non-ferrous metal melting - emissions such as noise and particles. | | 500m | _ |
| Metal melting (ferrous and non-ferrous) The melting of ferrous or non-ferrous metal in a furnace – emissions such as odour and noise. | | 300m | 1,000m |
| Metallurgical works The conduct of metallurgical works as described in Schedule 2, clause 2(d) of the Environmental Management and Pollution Control Act 1994 - emissions such as odour, noise, dust and gases. | | - | 2,000m |
| Milk processing works The conduct of works at which milk is evaporated or otherwise processed for the manufacture of milk powder, cheese, butter, ice cream or other similar dairy products – emissions such as odour and noise. | | 100m | 500m |

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 $^{^{\}rm 1}\,{\rm For}$ sewage treatment plants, refer to Table C9.2.

| Activity | | Attenuation Distance | |
|---|--|----------------------|---------------------|
| | | Level 1 Activity | Level 2 Activity |
| Milking shed (dairy) Milk shed operations on dairy farms – emiss | sions such as odour, noise and dust. | 300m | _ |
| Mine | Open cut. | 1,000m | 2,000m |
| The extraction of any minerals, excluding a quarry or extractive pit - emissions such as noise, dust, ground vibration and shock waves. | Underground. | 1,000m | 1,000m |
| Motor bodyworks Panel beating, spray painting, and the like - | emissions such as odour and noise. | 100m | - |
| Motor racing or performance trials The conduct of facilities designed for motor vehicles or motor-driven boat racing competitions, or speed or performance trials – emissions such as odour, noise and dust. | | 3,000m | - |
| Oil and gas extraction and production Land or offshore, excluding gas extraction f noise and gases. | rom landfill sites – emissions such as odour, | 2,000m | - |
| Oil refinery The conduct of oil refinery works as | Refining of recycled oil – emissions such as odour, noise and gases. | _ | 500m |
| described in Schedule 2, clause 1(c) of the Environmental Management and Pollution Control Act 1994. | All other refining – emissions such as odour, noise and gases. | _ | 2,000m |
| Organic waste treatment The treatment of organic waste such as animal manures, and solid waste from fruit or vegetable processing, excluding sewage treatment plants ² and liquid waste treatment – emissions such as odour, gases and disease vectors. | | 500m | - |
| Piggery Intensive animal husbandry. | Less than 50 pigs – emissions such as odour and noise. | 500m | _ |
| | 50 or more pigs – emissions such as odour and noise. | 2,000m | - |
| Plant nurseries and controlled environment agriculture | With manure or refuse use – emissions such as odour. | 300m | - |
| Excluding operations primarily selling directly to the public. | All other types of operation use – emissions such as odour. | 100m | _ |

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 $^{^{\}rm 2}$ For sewage treatment plants, refer to Table C9.2.

| Activity | | Attenuation | Attenuation Distance | |
|--|--|---------------------|----------------------|--|
| | | Level 1 Activity | Level 2 Activity | |
| Poultry farm Intensive animal husbandry – emissions such as odour, dust and noise. | | 500m | _ | |
| Pre-mix bitumen plant Works in which crushed or ground rock aggregates are mixed with bituminous or asphaltic materials for the purpose of producing road-building mixtures— emissions such as odour and noise. | | 500m | 1,000m | |
| Pulp and paper works The conduct of pulp and paper works as described in Schedule 2, clause 2(f) of the Environmental Management and Pollution Control Act 1994. | Process involving combustion of sulphur or sulphur-containing materials - emissions such as odour, noise, particles and gases. | - | 5,000m | |
| | All other processes - emissions such as odour, noise, particles and gases. | _ | 1,000m | |
| Quarry or extractive pit Extraction of rock, gravel, sand or clay, excluding a mine – emissions such as noise, dust, ground vibration and shock waves. | No blasting, crushing or vibratory screening – emissions such as noise, dust, ground vibration and shock waves. | 300m | 300m | |
| | Vibratory screening – emissions such as noise, dust, ground vibration and shock waves. | 500m | 500m | |
| | Crushing or grinding – emissions such as noise, dust, ground vibration and shock waves. | 750m | 750m | |
| | Blasting – emissions such as noise, dust, ground vibration and shock waves. | 1,000m | 1,000m | |
| Rendering or fat extraction works The conduct of works at which animal, fish or grease trap wastes or other matter is processed or is capable of being processed by rendering or extraction or by some other means to produce tallow or fat or their derivatives or proteinaceous matter. | Processing of fish – emissions such as odour and noise. | 500m | 1,000m | |
| | Processing of other matter – emissions such as odour and noise. | 1,000m | 1,500m | |

| Activity | | Attenuation Distance | |
|--|---|----------------------|---------------------|
| | | Level 1 Activity | Level 2 Activity |
| Scrap metal recovery The conduct of works at which scrap metals are treated in any type of fuel burning equipment or electrically heated furnaces or are disintegrated by mechanical means for recovery of metal, excluding commercial printing establishments at which type metal is melted or re-melted in thermostatically controlled pots for the purpose of type casting – emissions such as noise, dust and light pollution. | | 500m | - |
| Shooting range The conduct of facilities for outdoor shooting competitions, practice or instruction - emissions such as noise. | | 2,000m | - |
| Smallgoods manufacture | Smoking, drying and curing - emissions such as odour, noise and smoke particles. | 250m | _ |
| | All other types of operation - emissions such as odour, noise and smoke particles. | 100m | _ |
| Storage | Petroleum products and crude oil with fixed roofs - emissions such as odour and noise. | 500m | - |
| | Petroleum products and crude oil with floating roofs - emissions such as odour and noise. | 200m | _ |
| | Wet salted or unprocessed hides - emissions such as odour and noise. | 300m | _ |
| | Chemicals - emissions such as odour and noise. | 500m | _ |
| Surface coating The conduct of works for: (a) metal finishing, in which metal surfaces are prepared or finished by means of electroplating, electrolyse plating, anodising (chromating, phosphating and colouring), chemical etching or milling, or printed circuit board manufacture; (b) hot dip galvanising; or (c) spray painting and powder coating, excluding motor bodyworks. - emissions such as gases, odour, noise and dust. | | 300m | _ |

| Activity | | Attenuation Distance | |
|--|--|----------------------|---------------------|
| | | Level 1 Activity | Level 2 Activity |
| Textile bleaching and dying The works involving bleaching, dyeing or printing of yarns, threads, fabrics or other textiles - emissions such as odour, noise and gases. | Textile bleaching and dying factory. | 500m | 1,000m |
| Waste depot The conduct of depots for the reception, storage, treatment or disposal of waste, excluding: (a) temporary storage at the place at which the waste is produced while awaiting transport to another place; (b) storage, treatment or disposal of clean fill; (c) storage, treatment or disposal of domestic waste at residential premises; or (d) a waste transfer station. | Waste depot non-putrescible waste only - emissions such as odour, noise, dust and disease vectors. | 150m | 300m |
| | Waste depot putrescible waste - emissions such as odour, noise, dust and disease vectors. | 300m | 750m |
| Waste transfer station Emissions such as odour, noise, dust, light pollution and disease vectors. | | 150m | - |
| Wind energy facility Output per wind turbine generator of less than 250kW. | single turbine generator <10kW - emissions such as noise, electromagnetic radiation, shadow flicker and blade glint. | 60m | _ |
| | single turbine generator >10kW - emissions such as noise, electromagnetic radiation, shadow flicker and blade glint. | 250m | _ |
| | wind farm with 2-4 turbine generators - emissions such as noise, electromagnetic radiation, shadow flicker and blade glint. | 350m | _ |
| | wind farm with 5 or more turbine generators - emissions such as noise, electromagnetic radiation, shadow flicker and blade glint. | 500m | 500m |

| Activity | | Attenuatio | Attenuation Distance | |
|---|---|---------------------|----------------------|--|
| | | Level 1 Activity | Level 2 Activity | |
| Wind energy facility Output per wind turbine generator 250kW or greater. | single turbine generator - emissions such as noise, electromagnetic radiation, shadow flicker and blade glint. | 500m | - | |
| | wind farm with 2-4 turbine generators- emissions such as noise, electromagnetic radiation, shadow flicker and blade glint. | 750m | 750m | |
| | wind farm with 5 or more turbine generators - emissions such as noise, electromagnetic radiation, shadow flicker and blade glint. | 1,000m | 1,000m | |
| Winery | Bottling facilities only – emissions such as odour and noise. | 300m | - | |
| | Wine making – emissions such as odour and noise. | 500m | - | |
| Woodchip mill | Less than 1000 tonnes per year production capacity - emissions such as noise and particles. | 250m | - | |
| | 1000 tonnes to 20 000 tonnes per year production capacity - emissions such as noise and particles. | - | 500m | |
| | More than 20 000 tonnes per year production capacity - emissions such as noise and particles. | - | 1,000m | |
| Wood preservation works The conduct of wood preservation works as described in Schedule 2, clause 1(d) of the Environmental Management and Pollution Control Act 1994 - emissions such as odour and noise. | | _ | 300m | |
| Wood processing works The conduct of works (other than works at | Sawmill - emissions such as noise and particles. | 250m | 500m | |
| a builders supply yard, home improvement centre or firewood depot) at which timber is sawn, cut, compressed, milled, machined or kiln-dried. | All other types of operation (excluding joinery, firewood merchant or woodchip mill) - emissions such as noise and particles. | 250m | 1,000m | |

| Activity | Attenuation Distance | |
|--|----------------------|---------------------|
| | Level 1 Activity | Level 2 Activity |
| Wool scouring, tannery or fellmongery The conduct of works for the scouring of wool or the commercial preservation or treatment or drying of animal skins or hides - emissions such as odour and noise. | 250m | 500m |
| Wrecking yard (automotive) Emissions such as noise and dust. | 200m | _ |

Table C9.2 Attenuation Distances for Sewage Treatment Plant Processes

| Activity (type of sewage treatment plant process) | Attenuation distance according to sewage treatment plant designed capacity (average dry weather flow) in kL/day or person equivalent (pe) | | | | |
|--|---|------------------------------|-------------------------------|--------------------------------|--------------------------------|
| | <275kL/day or <1000pe | <1375kL/day or <5000pe | <5500kL/day or <20000pe | <13750kL/day or <50000pe | >13750kL/day or >50000pe |
| Mechanical/biological treatment (includes aerated lagoons) | 100m | 200m | 300m | 400m | >400m |
| Aerobic lagoons | 150m | 350m | 700m | 1,000m | >1,000m |
| Facultative lagoons | 300m | 550m | 700m | 1,000m | >1,000m |
| Anaerobic lagoons | 400m | 700m | 1,400m | 2,200m | >2,200m |