Summary of carboNZero certification:

Yealands Estate Wines Limited

Yealands Estate Wines Limited meets the requirements of the carboNZeroCertTM certification having measured and committed to reducing its greenhouse gas emissions and mitigated its remaining unavoidable emissions in respect of its organisation including selected wine products.

Introduction1 – Yealands Estate Wines Limited is based in the Awatere Valley, to the south east of Marlborough’s Wairau Plains. It is owned by Peter Yealands and his family. Its core activities as a company are the winemaking and distribution activities associated with its wine brands.

Yealands Estate Wines Limited operates out of the Yealands Winery. The winery was developed from initial design through to construction in compliance with the draft Green Star NZ Industrial rating system with the aim of achieving a six star rating. The winery is designed to handle some 11,000 tonnes of premium wine at full production, the majority of which will come from the vines of its sister company Yealands Estate Limited.

The winery was built to excel in large-scale, high quality wine production without compromising the environment. Yealands Estate Wines Limited understand the environmental issue of anthropogenic climate change and, as part of a much broader commitment to sustainability, are carboNZero certified for its operational emissions, selected wine products and grape supply.

Boundary – the diagram below shows the organisational structure used for describing Yealands Estate Wines Limited greenhouse gas (GHG) emissions inventory, and what business units were included in the carboNZero certification.

Consolidation approach – operational control.

Base year – 01/07/2007 to 30/06/2008

Measurement period – 01/07/2007 to 30/06/2008

1 Disclaimer: This Disclosure Statement is a summary of the verified information considered for certification and the certification decision. It should not be taken to represent the full submission for certification. While every effort has been made to ensure that the information in this Disclosure Statement is accurate and complete, Landcare Research does not, to the maximum extent permitted by law, give any warranty or guarantee relating to the accuracy or reliability of the information.
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GHG emissions source inclusions –

Yealands Estate Wines Limited total emissions for this period were 3016.33 tonnes carbon dioxide equivalents (CO₂e) comprising 37.51 tonnes CO₂e Scope 1, 66.22 tonnes CO₂e Scope 2 and 2912.60 tonnes CO₂e Scope 3 emissions. Of the Scope 3 emissions 2289.47 were one-time capital emissions associated with the building of the Yealands winery.

The diagram below shows the operational GHG emissions for Yealands Estate Wines Limited by business unit excluding one-time emissions from the building of the winery. Total operational emissions for the period were 726.85 tCO₂e, whilst one time emissions from embodied materials in the building of the winery accounted for 2289.47 tonnes CO₂e.

Figure 1: Organisational diagram for Yealands Estate Wines Limited

Figure 2: Boundary for Yealands Estate Wines Limited GHG measurement for the wine product
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**NB** – Emissions associated with packaging, packaging transportation and product distribution are labelled in the above graph as “Product Emissions”. In future reporting periods emissions from these sources will become significant as product sales increase.

**GHG emissions source exclusions** –
Significant emission source exclusions include
- Dry Goods – embodied emissions (insufficient data and goods make up less then 0.5% of wine product)
- Wastewater (insufficient data)
- Capital build – suppliers emissions from construction, installation of services and transportation of staff, equipment and materials (due to lack of data only embodied emissions in materials used has been included)
- Livestock emissions (approximately 2500 sheep are bought in from 3rd party farms to reduce the need for mowing in winter and spring). These have been excluded from the inventory
- Electricity use – outsourced bottling and warehousing (lack of data)

**GHG emissions reduction commitments** – Yealands Estate Wines Limited has developed a GHG emissions reduction plan. Some projects in this plan include:
- Installation of energy efficient refrigeration technologies.
- Use of variable speed drives (VSD’s) on electric motors.
- Heat recovery from refrigeration plant.
- Solar hot water for administration building.
- Trial of innovative ways to reduce need for weed and grass control.

**Offset** – **727** tonnes CO₂e. VERs² from PRE³ Tararua II windpower project. Serial numbers 313503 - 314229 have been cancelled (or equivalent) on on the carboNZero programme registry. One-time emissions from the building of the Yealands winery were excluded from the offset undertaken for certification.

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² VERs are created by eligible projects for emissions reductions achieved up to the end of 2007.
³ PRE - Projects to Reduce Emissions is a New Zealand government scheme for projects that are eligible under the Joint Implementation initiative of the Kyoto Protocol – see [www.mfe.govt.nz](http://www.mfe.govt.nz)
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Verified by – Deloitte

Threshold of materiality – excluded emissions do not exceed 5% of the total footprint for organisation and product boundary stated.

Level of assurance – reasonable assurance

Certification status – carboNZero certified “organisation” for Yealands Estate Wines Limited and “product” for a number of Yealands Estate Wines Limited owned brands.

Certificate number – 2009012

Valid until – 30/09/2009

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4 Wine varietals: Sauvignon Blanc, Chardonnay, Gewurztraminer, Riesling, Viognier, Pinot Gris, Pinot Noir and Tempranillo for the following brands: Yealands, Yealands Estate, Yealands Showcase, Yealands Way, New Yealands, Peter Yealands.