

COMPLIANCE SNAPSHOT

Rural Winery Wastewater and Grape Marc Monitoring



MARLBOROUGH DISTRICT COUNCIL

KEY POINTS



79.1%

Proportion of grapes grown in NZ



302,396

Tonnes of grapes processed in 2017



6%

Decrease in total tonnage processed in 2017 when compared with 2016



38

Wineries discharge to land in the rural area



Only **1** incidence of ponding observed during inspections



33.3%

Of wineries complied with all consent conditions



55.6%

Of wineries had at least 1 consent condition rated non-compliant.

Snapshot of the 2017 monitoring programme

What was found during the 2017 inspections and annual report Monitoring

Marlborough District Council monitors all wineries which discharge wastewater to land under the permitted activity standards or resource consent. Wineries which have small production volumes, no previous compliance issues and no changes to their wastewater system did not have an onsite inspection in 2017.

This year compliance was assessed against the Proposed Marlborough Environment Plan (PMEP) rules for the discharge of liquid and solid agricultural waste to land. 23 wineries had an annual wastewater inspection during harvest 2017. Following harvest, many wineries are required to provide an Annual Report which discusses in depth, the compliance of each consent condition. A compliance report is provided to all wineries detailing the compliance status for each consent condition or plan rule.

33.3% of winery wastewater discharges were rated as compliant with all conditions/rules.

27.8% of wineries were rated non-compliant with 1 condition/rule and **27.8%** of wineries were rated non-compliant with 2 or more conditions/rules.

Common Areas of Non-compliance:

- pH parameters exceeded (9 wineries)
- Discharge within Soil Sensitive Area (8 wineries)
- Discharge within 50m of bore (4 wineries)
- Exceeding discharge rate (2 wineries)

Industry Issues and Challenges

- **Stormwater diversion**
Reduce the volume of wastewater created
- **Contingency plans**
The majority of wineries have little or no storage
- **Grape Marc storage**
The location and facility must be suitable

Summary of Compliance Rating System

Results reported in this snapshot reflect the compliance of each permitted activity standard or resource consent condition, the lowest rated condition is the overall compliance level. For example a wastewater discharge consent could have 25 conditions of which 23 are rated compliant (green), 1 is rated minor non-compliance and 1 is rated non-compliance – the consent is rated non-compliance.

Full Compliance	Technical non-compliance	Minor Non-compliance	Non-compliance
100% compliance with all consent conditions/ permitted activity standards assessed	Non-compliance with condition which are considered to only have minor or no adverse environmental effects. E.g. failure to keep records	Relatively minor breaches requiring corrective action	Breach of effects based/ best practice conditions/ rules that cause actual or potential environmental effects. E.g. multiple exceedances of parameters or wastewater reaching a waterway.

Winery Wastewater

Winery wastewater consists of water used for:

- Cleaning floors
- Equipment
- Fermentation tanks and barrels



Grape Marc

Grape Marc is the seeds, skins and stalks left once the juice is squeezed from the grapes.



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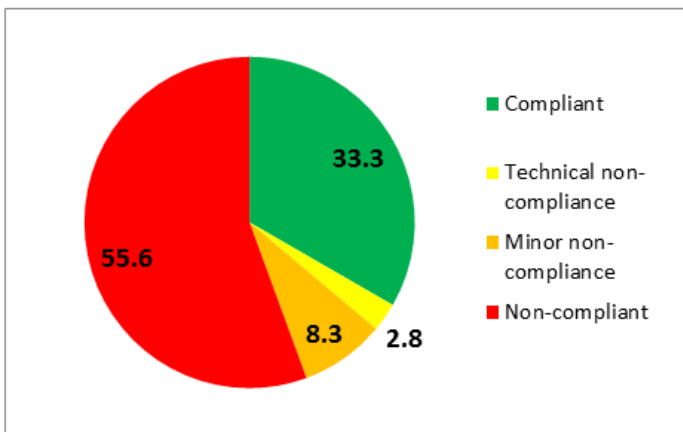
Compliance snapshot

During the on site wastewater and grape marc inspection, Council officers check the wastewater systems at the winery and the disposal area receiving the wastewater or grape marc.

The types of wastewater systems vary throughout Marlborough due to the range in production sizes at each winery. The systems vary from basic settling systems to complex systems using automotive aeration and microorganism selection for treatment.

Wastewater is spread in a variety of locations including in wood lots, under grape vines or in pastoral paddocks. Grape marc is stored in a 'compost' type facility on site at the winery, spread immediately under vines or in pastoral lots or it is sent to other rural locations.

Compliance Levels 2017 vintage



Wastewater Spread to Land -examples of compliance and non-compliance from previous surveys



Overwatering causing ponding



Overwatering causing ponding

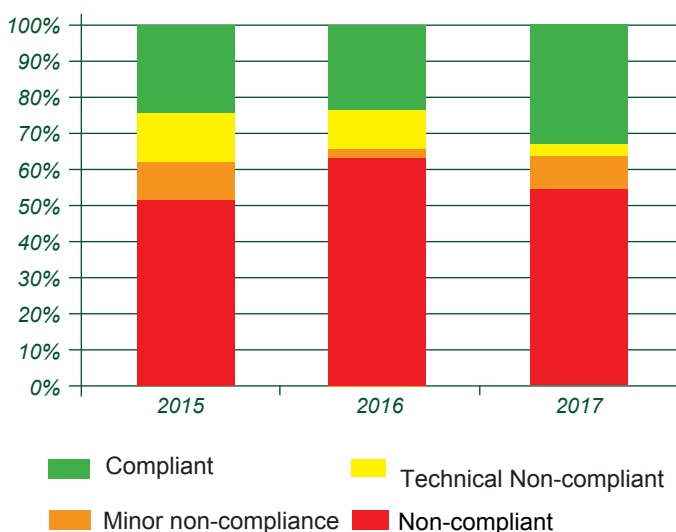


Low rate application system



Well monitored application

Compliance Levels over the last three vintages



Grape Marc Storage



Grape marc stored to land with no leachate collection



Sealed storage area with leachate collection

For More Information

For more information on compliance and enforcement monitoring undertaken by Marlborough District Council, contact the Environmental Protection Group

Phone: 03 520 7400
 Email: monitoring@marlborough.govt.nz
 Website: www.marlborough.govt.nz



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