

COMPLIANCE SNAPSHOT

Rural Winery Wastewater and Grape Marc Monitoring



MARLBOROUGH DISTRICT COUNCIL

KEY POINTS



74.7%

Proportion of grapes harvested in NZ



419,000

Tonnes of grapes processed in 2018



6%

Increase in total tonnage processed in 2018 when compared with 2017



38

Wineries discharge to land in the rural area



0 wineries assessed as significantly non-compliant



40%

Of wineries complied with all consent conditions and standards



37%

Of wineries were rated non-compliant.

Snapshot of the 2018 monitoring programme

What was found during the 2018 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 2018.

This year compliance was continued to be assessed against the Proposed Marlborough Environment Plan (PMEP) rules for the discharge of liquid and solid agricultural waste to land. 24 wineries had an annual wastewater inspection during harvest 2018. 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.

40% of winery wastewater discharges were rated as compliant with all conditions/rules.

20% of wineries were rated non-compliant with 1 condition/rule and **17%** of wineries were rated non-compliant with 2 or more conditions/rules.

Common Areas of Non-compliance:

- pH parameters exceeded (8 wineries)
- Discharge within Soil Sensitive Area (7 wineries)
- Surface ponding (6 wineries)
- Exceeding discharge rate

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.

100% compliance	Non-compliance	Breach of effects	Significant breach
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	Breach of effects based/best practice conditions/rules that cause minor actual or potential environmental effects. E.g. ponding of wastewater remediated immediately.	Significant 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 consists of water used for:

- Cleaning floors
- Equipment
- Fermentation tanks and barrels



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



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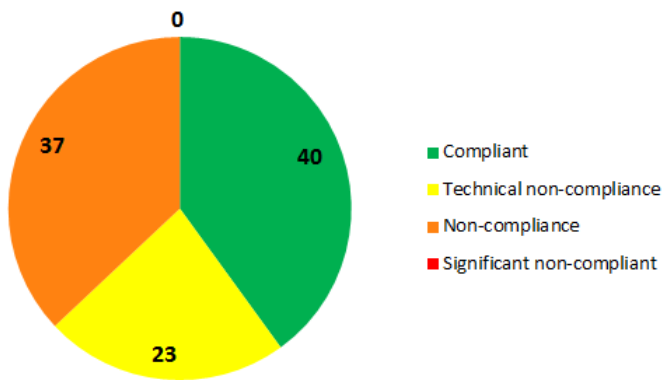
Compliance snapshot

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.

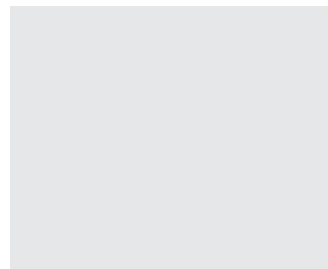
The types of wastewater systems vary throughout Marlborough due to the range in production sizes at each winery. The systems vary from basic settling systems to complex systems using automotive aeration and microorganism selection for treatment.

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 2018 vintage



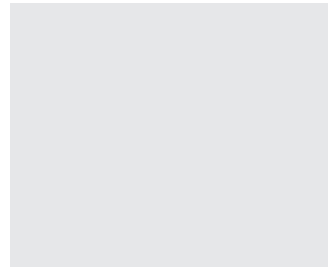
Wastewater Spread to Land -examples of compliance and non-compliance from previous surveys



Overwatering causing ponding



Overwatering causing ponding

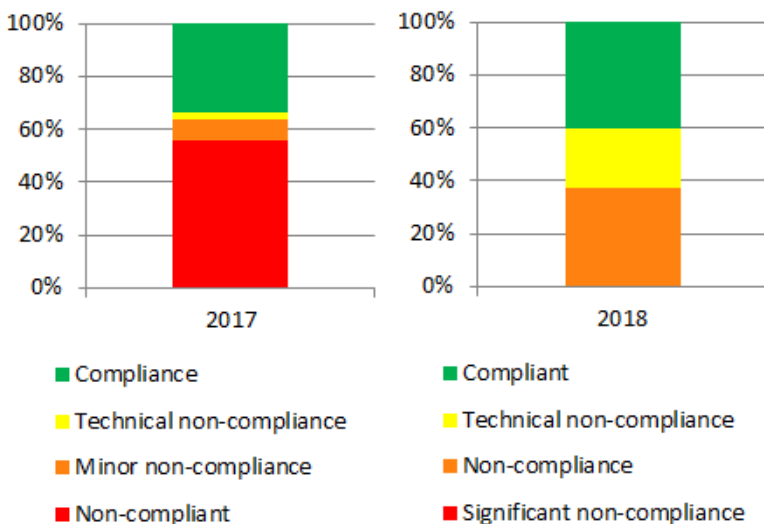


Low rate application system

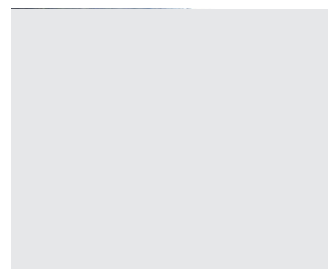


Well monitored application

Compliance Levels over the last two 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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