

11.5 Hospitality Industry

11.5.1 Description

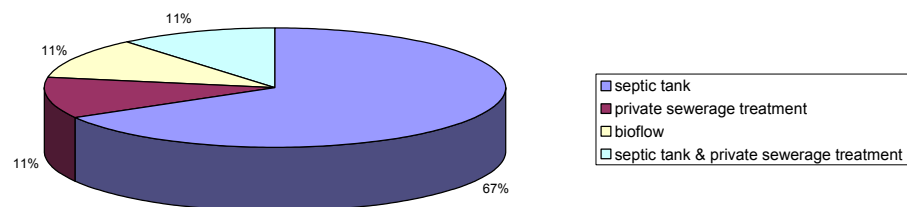
The Hospitality Industry is identified as a community due to the similarity of the needs and requirements of like services such as cafés, restaurants, general food outlets, B & B's plus tourist attractions.

18 hospitality businesses were identified within the district as not being serviced by public reticulation. All 18 were invited to respond to the survey, 9 responses were received. This gave a satisfactory margin of error of 10% and a 90% confidence level, with a 50% response rate.

11.5.2 Methods Used to Dispose of Sewage

The bulk of the hospitality industry is on a reticulated sewerage system owned and maintained by the HDC; however 11 out of 30 businesses are utilising on-site effluent disposal due to their positioning within the rural communities. 1 utilises a Bioflow treatment plant. The parameters of this community should have restaurants, burger bars and taverns included. This remains to be done.

What is your method of waste water disposal?



11.5.3 Risks Attributable to the Absence of a Reticulated Sewerage Network

HOSPITALITY INDUSTRY	Current probability of an event occurring	Current consequence of such an event occurrence	TOTAL current risk factor	Future probability of an event occurring	Future consequence of such an event occurrence	TOTAL future risk factor	Difference between Current and future risk
Septic tank failure	3	3	9	N/A	N/A	N/A	N/A
Effluent field failure	3	3	9	N/A	N/A	N/A	N/A
Overloading	3	3	9	N/A	N/A	N/A	N/A
Spillage	3	3	9	N/A	N/A	N/A	N/A
Seepage	3	3	9	N/A	N/A	N/A	N/A
Contamination of a waterway	2	3	6	N/A	N/A	N/A	N/A
Lack of maintenance	3	3	9	N/A	N/A	N/A	N/A
Vegetation growth over effluent field	3	3	9	N/A	N/A	N/A	N/A
Trade waste entering the septic tank	3	3	9	N/A	N/A	N/A	N/A
Public health	3	3	9	N/A	N/A	N/A	N/A
Public reticulation failure	1	3	3	N/A	N/A	N/A	N/A
Public treatment facility failure	1	3	3	N/A	N/A	N/A	N/A
Power failure	3	2	6	N/A	N/A	N/A	N/A

Community	Current probability of an event occurring	Current consequence of such an event occurrence	TOTAL current risk factor	Future probability of an event occurring	Future consequence of such an event occurrence	TOTAL future risk factor	Difference between existing and future risk
Hospitality Industry	2.77	2.92	8.09	N/A	N/A	N/A	N/A

11.5.3.1 Risk Assessment Conclusion

The community of hospitality industry has a reasonably high risk assessment for health and environmental impacts compared to other communities assessed. Refer to section 2.3 for overview.

Risks associated with the absence of the reticulated supply can be attributable to ageing on-site wastewater systems causing contamination of waterways thus creating a public health risk. As the survey showed, there are businesses in the Hospitality Industry who are utilising an on-site effluent disposal system that do not know when the system was last maintained, emptied or even inspected. These are the areas that need to be concentrated on in the future.

11.5.4 Assessment of the Quality and Quantity of Discharged Wastewater

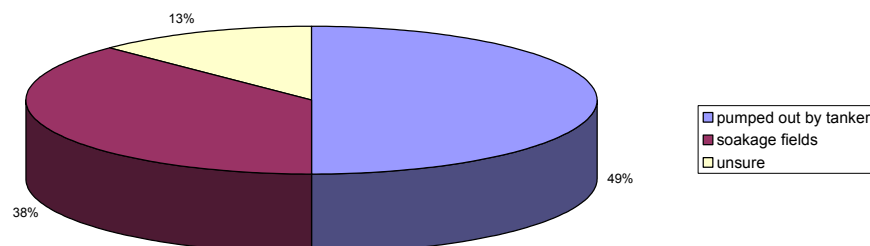
11.5.4.1 Collection and Treatment

Collection varies in the Hospitality Industry of the Hauraki District. Of 9 businesses surveyed, which utilise on-site effluent disposal, 1 has an engineered Bioflow treatment plant. The rest were on public sewerage reticulation.

11.5.4.2 Operation and Maintenance

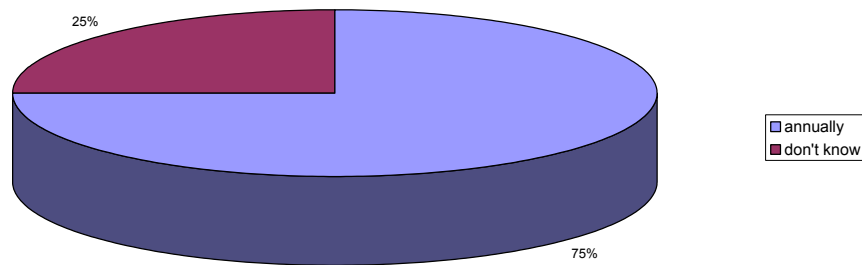
As can be seen from the survey graph below, of the businesses utilising on-site effluent disposal, 38% knew where their soakage fields were, 49% said they had their tank pumped out regularly by septic tanker, and 13% were unsure of their disposal. This 13% has a high likelihood of requiring maintenance or replacement.

Where does your waste water go from your septic tank?



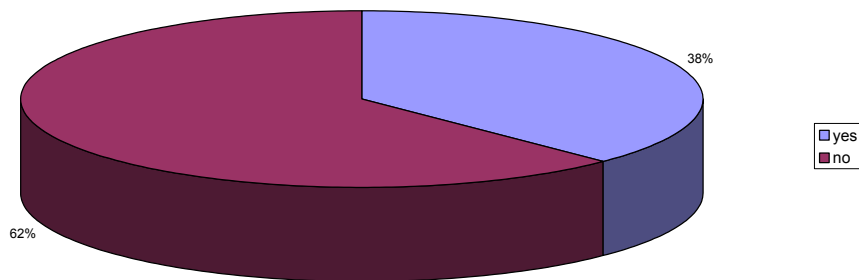
Also from the survey, it was found that 75% had their tank pumped out annually (it is not known if this is due to overloading the system or good maintenance), with 25% not knowing how often they cleaned out their tank. Reasons for this could include not being in the business long enough to find out, not knowing that they need to have the tank cleaned out, or not having the person who did know the answers answering the survey questions.

How often do you clean your septic tank?



38% of those surveyed were aware of soil soakage problems which could include high ground water level as well as soil properties.

Are you aware of any soil soakage problems?



Generally, it appears that the majority of businesses in the Hospitality Industry surveyed that were on on-site effluent disposal were not aware of the operation and maintenance required on these systems. Council has purchased some booklets produced by the New Zealand Water & Wastes Association in conjunction with the

Ministry for the Environment titled “The story of your septic tank system”. This booklet will be sent out to all septic tank users within this community.

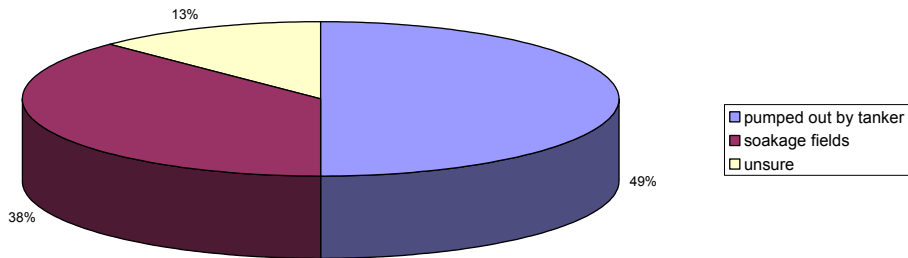
11.5.4.3 Treatment Process Effects

Conventional on-site effluent treatment systems can be quite effective in treating effluent if they are installed, used and maintained correctly. Problems with conventional on-site effluent treatment systems are typically due to the installer or user not understanding what is needed to make them work. Evidence from septic tank cleaners strongly indicates that some septic tank soakage field systems are not suited to the conditions they are being expected to operate in, and that in some cases there are flaws in the initial design and installation of the system. This can be attended to at building consent stage.

11.5.4.4 Effluent Disposal Type

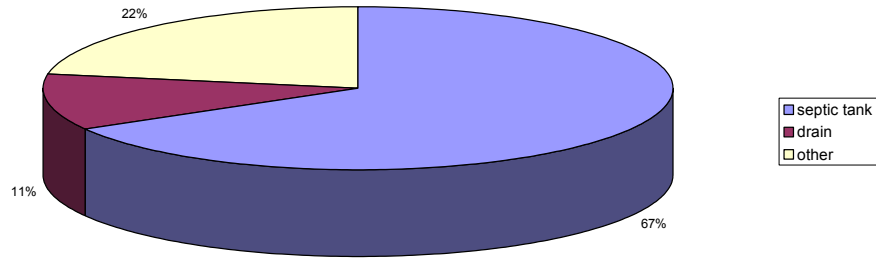
38% of those surveyed indicated that their effluent disposal type was effluent soakage fields, with 49% indicating that they had their tank pumped out as their disposal method. This could indicate that the effluent soakage fields were not operative and this area requires attention.

Where does your waste water go from your septic tank?



In answer to the question, how is your grey water disposed of? 67% indicated that they disposed of their grey water into their septic tanks.

How do you dispose of your grey water?

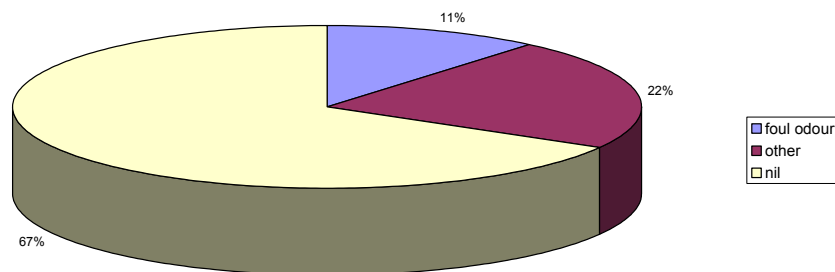


11.5.4.5 Effluent Disposal Risks

67% of those surveyed indicated that they had not experienced effluent disposal risks, with 11% indicating that they had experienced foul odour and 22% experiencing other disposal risks such as soil soakage problems and vandals.

Remedies included installing a new wastewater disposal system to paying for a private septic cleaner to empty the septic tanks.

What kind of problems have you encountered with your sewage disposal system within the last 3 years?



11.5.4.6 Resource Consents

Resource consents may be required under Environment Waikato rules. This is regarded as outside the scope of the present assessment.

11.5.4.7 AS/NZS 1547:2000 Compliance

A detailed survey and investigation would need to be undertaken to ascertain any compliance variances to AS/NZS 1547:2000. However, it is estimated that a number of on-site disposal systems within the Hauraki District may not comply due to ground conditions, groundwater levels and/or proximity to waterways. Council have no immediate plans to undertake such a survey in the near future.

11.5.4.8 System Capacity for Future Demands

The problem of on-site disposal of effluent is the cumulative effect of a large number of small discharges. Therefore, system capacity should be addressed at the time of building consent.

11.5.4.9 Existing System Life Expectancy

Life expectancy of on-site effluent disposal systems varies greatly from less than 10 years, to 50 years depending on ground and water level conditions as well as maintenance.

11.5.5 Current and Estimated Future Demands

Health guidelines or possible legislation may drive a decision by council to further investigate the current situation in greater detail which could identify future demands.

11.5.6 Options to Meet Demands and their Suitability

Council has not undertaken an options review at this present time.

11.5.7 Intended Role of the Hauraki District Council in Meeting the Demands

Council has not formulated any intention at this present time to undertake a role.

11.5.8 Hauraki District Council's Proposal for Meeting the Demands

No proposal has been formulated at present.