

Suncoast Waste Water Management

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Statement Addressing Concerns raised by Council's Environmental Health Officer in Relation to Proposed Treatment of Wastewater

25/03/2024

Proposed Onsite Aerated Water Treatment System: 32kL Septic Tank + RP 100A SBR

The proposed wastewater system's design load has been calculated according to the *On-site Wastewater Systems Code, April 2013* with reference to the following Australian/New Zealand Standards (AS/NZS): AS/NZS 1546.1:2008, AS/NZS 1546.2:2008, AS/NZS 1546.3:2017, AS/NZS 1547:2012.

The Wastewater Regulations and the Department for Health and Ageing (DHA) wastewater codes have been formulated to reflect changes associated with current trends in wastewater management practices.

This statement is provided to confirm that the proposed system has been adequately sized to account for peak influent flow to the STP and that the system is currently sized according to the number of BOD₅ equivalent persons (EP). The plant receives a hydraulic load of 32 EP (corresponding to 6382 L/day) and a BOD₅ EP of 95. As the BOD₅ load is almost 3 times larger than the hydraulic load, the system's proposed 22.5 kL balance tank and two 22.5 kL SBRs are therefore more than able to sufficiently accommodate shock load fluctuations and events (e.g. several tour buses).

Furthermore, it can be confirmed that the system has been configured to avoid the need for division into multiple systems and disposal areas and that influent will be pumped to the centralised septic system if sufficient slope is unavailable on site to gravity feed.

Based on the site specifications and information received, the area allocated for the plant on the plans is sufficiently sized for the proposed onsite system.

In addition, it can be confirmed that effluent from the proposed advanced secondary treatment plant, with nutrient reduction, will not adversely affect the flora and fauna within the proposed effluent disposal area or those within the disposal area's immediate vicinity.

Raoul Ozudogru (MEng. Chemical)

Signature: 

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