

PROMPT AERATED WASTE SERVICE

Mark Harrold
Heliport Developers Pty Ltd
89-151 Old Castlereagh Road
Castlereagh NSW 2749

Dear Mark

10 October 2023

Aerated Wastewater Treatment System (AWTS)

This letter outlines the assessment of the on-site effluent management system in relation to the Sydney Helicopters office building and the proposed Longs House Restaurant / Café located at 89 - 151 Old Castlereagh Road, Castlereagh.

The letter is in response to a request by you as the Applicant of a Development Application for Longs House Restaurant and Café.

The subject site is situated off the northern side of Old Castlereagh Road within the lands owned by Heliport Developers. Sydney Helicopters a commercial Helicopter Service provider operates from within the site also.

The Sydney Helicopters offices and the proposed Longs House Restaurant and Café are serviced by an existing on-site effluent treatment system known as an 'BIO 7000 aerated wastewater treatment system' (AWTS) that comprises primary and secondary treatment tanks at a pre-designed capacity of 120, as well as an 18,000 litre wet-weather storage tank.

The kitchen facility at the cottage known as Longs House is understood to have a commercial grease arrestor and its own septic tank for primary treatment. The kitchen grease arrestor will be pumped out regularly by a waste collection service.

The system is capable of a volume of 7000 litres/day and testing of the treatment device to confirm that a secondary level of treatment is achieved – limits set at pH of 6.5 - 8.5, total suspended solids (SS) concentration of 30mg/L and biochemical oxygen demand (BOD) of 20mg/L.

The AWTS meets the Licence parameters for secondary treated effluent being pH, SS and BOD, as well as that ideally for nitrogen (N) at 25 - 50mg/L and phosphorus (P) at 10 - 15mg/L.

Regards



Mark Kersivein
Director