

LLA-TANK21 Updated Tank Construction Details

Tank	Install	Relocate	De-Commission	Purpose	Capacity	Containment	Comments
Pre Cast Concrete Tank			X	Above ground sump tank for feeding screened effluent to the balancing tank (T5).	10m ³		Tank will be replaced in a new location by a new SPEL tank. All effluent will be removed from the pre-cast concrete tank, tank will be cleaned, pipework and pumps will be disconnected. Tank will be removed off site for reuse at an alternative location or for disposal by a licenced waste contractor.
T1			X	Underground sump tank for feeding to the balancing tank (T5).	18m ²		The pump Sump will be replaced by SPEL Tank. The pump Sump will have all effluent removed and shall be cleaned, after all liquid has been removed from the pump sump all pumps and pipework within the sump shall be decommissioned. A new enclosed pipe will be connected between the existing inlet and outlet point of the pump sump and the pump sump shall be filled with concrete.
T4 (Old Location)			X	Underground sump tank for collecting effluent from the lairage and transferring effluent from the balance tank (T5) to the ETP.	24m ³		Pipework from T5 to T4 will be decommissioned. All effluent will be removed from T4, T4 will be cleaned. Pumps will be disconnected and either removed. Pre-cast T4 tank will be removed from site by a licenced waste contractor and the hole filled and a concrete slab placed on top.
T4	X			Underground concrete pump sump tank collecting liquid from the lairage. This will be relocated closer to the lower lairage such that the lower lairage and washdown water can be automatically scraped into a trench, going through a screen and into T4. Relocation is needed to accommodate the screens. This screen will allow for more regular removal of animal waste from site reducing the potential for odour emission.	25 m ³	This will be a pre-cast concrete tank which will be located adjacent to the lower lairage underground.	The purpose of new T4 will now solely be to collect lairage effluent, and effluent from the lairage screen. Integrity will be inspected prior to install and a hydraulic test will be completed to demonstrate integrity prior to commissioning. Effluent from T4 will be pumped to the Spel tank.
T5		X		T5 is the sites balancing tank. This is a large tank into which effluent is pumped before going to the effluent treatment plant (ETP). It collects the effluent from the day which is more biologically heavy (due to production) and the evening & night effluent which is more chemical heavy (due to washdowns). By holding the effluent and allowing it to mix and 'balance', it allows a consistent effluent to be sent to the ETP which makes it much easier to treat.	1000 m ³	The tank will be on a raised plinth and will be surrounded by either metal fencing or crash barriers to protect against damage or piercing.	Glass lined steel tank balance tank (T5) will be relocated to a new location to allow the building extension to be located in the previous T5 and above ground pre-cast concrete tank location.
SPEL Tank	X			An underground sump tank in which the site's effluent can collect for pumping into the balance tank (T5). Its configuration of internal shape and pumps is such that the velocity of the pump inlets prevents settlement on the tank's bottom mitigating the possibility of choking and blocking which could result in an overflow.	6 m ³	This is a fibreglass tank set underground in a slow-pour concrete enclosure protecting it from any potential damage.	Replaces T1 and Pre Cast Concrete Tank.
Beef Blood Tank(s)	X			For the collection and storage of beef blood. Refrigerated & bunded beef blood tank(s) will be installed on ground floor under the bleed trough.	TBC	Construction design is ongoing by the supplier however the brief specifies that the tank(s) will be refrigerated and bunded at minimum to 110% capacity of the largest tank or 25% of the combined tank volume whichever is the largest, as per "Containment Systems for the Prevention of Pollution" as set out by CRIIA. Any beef blood tanks will have an odour abatement system installed. This will ensure a minimal chance of odourous emission over its lifetime.	