

# Landia Pig Slurry Management

Tuesday 9 March 2021

0700 – 0756

<b>Date:</b>	Tuesday 9 March 2021
<b>Time:</b>	0700 - 0756
<b>Location:</b>	Teams Meeting
<b>Attendees</b>	
<b>Subcommittee members:</b>	NAWAC Subcommittee (Chair Included)
<b>MPI Secretariat:</b>	MPI Representatives
<b>Invited Guests:</b>	NZ Industry Representatives Landia Representative
<b>Apologies:</b>	NAWAC Subcommittee Member

## Meeting Summary:

On Tuesday 9 March the NAWAC pig subcommittee, several industry representatives, and MPI representatives met with a Landia representative to discuss the ways that pig slurry was managed in Denmark.

In Denmark, by law, farrowing crates must have the ability to be opened, and material must be provided to the sow allow for structure variation in her feed and to allow her to exhibit nest building behaviour. In Denmark, farrowing systems are generally compromised of one third slatted floor, and the remainder as solid flooring. Chopped straw is provided to the sows, generally by hand as this controls the amount she is provided. Due to the design of the pens, the nesting area with the sow generally keeps the straw dry and slurry free – the sow will tend to dung in a separate dunging area in the pen.

Pen stables that are newly built tend to install scrape systems; this is to help manage the excess straw in the slurry systems.

To increase the vacuum effect in pull plug systems, a pump can be directly installed onto a pipe. Landia pumps have a knife system. This consists of two knives on the axel, rotating with 1500 rpm, and a fixed knife on the inlet. That is an optimal solution for chopping straw. Long material such as grass can cause a problem as the material tends to build up. Maintenance of the system should be routinely performed annually, and the knives replaced every 5-8 years. For this type of vacuum system to be effective, the stable does need to have an effective gradient underneath the slatted flooring.

Pipe sizes of around 315mm are commonly used in Denmark slurry systems currently. Old systems were using 250mm piping, however potential problems with blockages were noted with the addition of straw.