

Under Floor Drainage and Leak Detection Systems

- It is good practice to install drainage under new effluent storage ponds (under floor drainage).
- Under floor drainage connected to a sump that can be checked and, if necessary, sampled is a great way to

check the liner is not leaking (leak detection).

 It is much more cost effective to do the under floor drainage during construction than after the pond is full of effluent.



Grid pattern under floor drainage prior to installation of liner

The under floor drainage system must provide good coverage of the base of the storage pond – 5m spacing between pipes for heavy soil types and 1m spacing between pipes for free-draining soil types. A grid or herringbone pattern is the most common design. Installing a leak detection system during construction is a cost effective way of showing the liner is not leaking. It will:

- collect groundwater following storage installation;
- minimise the cost of showing the liner is not leaking in the future.

It would be sensible to take a photograph or make a plan showing the layout of the installed drainage in case it is needed later. Please **contact the Rural Advice Team** if you need more information.

