Press announcement - SyreN pH rapport

Abstract:

SyreN pH rapport is a new method for documentation of the environmental effect and operational data from slurry application.

SyreN pH rapport is an internet based online system which in a user friendly manner collects and publicises data for use as documentation to public administration and users of the SyreN system. The data collection is based on a combination of GPS positioning and operational data. Data are transferred via GSM mobile net to an internet server with user software. All data are hosted for 5 years.

Details:

Slurry application has potentially a very high environmentally negative impact. SyreN system can reduce the impact considerably and has been admitted on the Danish technology list for agricultural systems. As such, it may be used instead of injection on grassland. In this application, there is a requirement from the public administration to document the pH value of the slurry in order to estimate the environmental effect from the application. The pH value is measured before and during application of slurry.

The object of SyreN rapport is to make the need for documentation so simple and automatic, that it does not present itself as a problem or extra workload for the user of the SyreN system and at the same time make sure that the data are always available and accessible. When documentation is required by the administration, it I no extra cost to include operational management data also and because of this, pH rapport becomes an integrated part of communication between offices / management for contractors / farmers where all data are registered already. In addition, the system can be of assistance if there are disagreements over quality or quantity of work, as a very detailed documentation always is available.

When in operation, the SyreN system on the slurry tanker is managed by an ISOBus system. That means that the system is integrated with the tractor CAN bus and can read and use a long list of the tractor integrated sensors and the SyreN system own sensors. SyreN pH rapport collects 21 dataset in the ISOBus CAN code and transmits these every 10 seconds via GSM net to a stationary internet server. The internet server automatically translates the data to a .CVS file format for every 24 hours. The file can be downloaded to the customer's computer. All data are in CAN language and cannot be read direct, but needs a translation through the pH rapport software. A normal pH rapport contains data such as customer, field, position of slurry tanker, slurry volume, acid volume, pH before and after treatment, ammonia volume, additive volume. All data are stored for 5 years.

The CSV file can be translated direct from the internet and there is no need for installation of PC software on the customers computer just as all data are available from any PC as long as a valid username and password is available. With a simple mouse click, all data are printed in a rapport that can be added as documentation for done job or if public administration requires documentation for pH values.

As an important feature, the position data can be entered into Google Earth program. This gives possibility to document drive patterns as they are an important economic factor in connection with slurry application.

The SyreN pH rapport system is an online system, which gives mobile telephones with internet access possibility to track the slurry tanker direct from the mobile telephone.