

## BOADWINE DAIRY

Lynn Boadwine  
Baltic, SD 57003



Dr. Dwaine Bundy and Lynn Boadwine discussing the one-year old windbreak planted at Boadwine Dairy.

## FACILITIES

Boadwine Dairy is run by Lynn Boadwine, a fourth generation farmer who operates the dairy on the same land that his great-grandparents homesteaded in 1874 near Baltic, S.D.

## PRE *PITCHARGER* ENVIRONMENT

Boadwine Dairy was in the process of increasing their 1000-head herd by 500 cows. In doing so, Boadwine decided to add a 10-million gallon lagoon to their present storage system. Much consideration was given to minimizing odor and neighbors' concerns. The final design had two large settling basins that are alternately filled & pumped with overflows to the new lagoon. This lagoon then overflows into a 9-million gallon lagoon used for flush water. The plan also included planting a windbreak.

## *PITCHARGER* ENVIRONMENT

Boadwine began using bi-monthly treatments of PitCharger. Just to make certain we were doing our job, Lynn contracted with Dr. Bundy and the Iowa State Lab for odor testing. Odor Threshold readings dated June 3rd (just before our treatment began) and again on Aug 25 and Oct 4 showed that the lagoon system showed odor reductions of 72% & 92% respectively. The new lagoon also showed a 25% reduction in odor. Likewise hydrogen sulfide readings were also reduced by 90%.

## PRODUCER COMMENTS

*“Absolutely less odor from the pits. We were able to pump the primary pits clean to the bottom and to top it off, the neighbors are mentioning the reduction in odor.”*



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