



Case Study

Liquefy Solids

WEST CENTRAL CO-OP

On Farm Test for Solids Build-Up
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Ralston, IA 51459

Three separate facilities with solids problems were worked on by West Central Co-op, Swine Specialist, Nick Lentz using *PitCharger*. Testing was conducted over a 3 month period.

Location A

Location A has four 960 head pull plug, finishing buildings. The 24" pits had six inches plus of manure that would not flow or drain. One gallon of *PitCharger* was applied to treated buildings each month for the three-month test.

RESULTS: "Tests back were very positive on the reduction of solids. Pits with additive showed significant reduction of solids compared to non-treated pits. In addition, treated pits drained better."

Location B

Location B has two thousand-head pull plug buildings. There was a feed spill below each feeder in one building. We were testing to see how *PitCharger* would decompose the feed.

RESULTS: "Although we did not see a total decomposition of the feed during the test, we did see a reduction in the size and composition of the piles when compared to the pits that were not treated. Solid manure that had built-up around the feed was liquefied."

Location C

Location C has two thousand-head pull plug buildings. This location had approximately 10" of semi-dry manure in the bottom of the pits that had sat unused for six to seven months. At the time *PitCharger* was added, liquid had been on the dried manure for approximately five months with no success in draining. We used the equivalent of one gallon per month in each building.

RESULTS: "We found a good reduction in manure build-up in the treated pits compared to the control pits. When pits were emptied the slurry moved quicker from the treated pits. I feel that even though we were able to show good improvement, the solids to liquid ratio was too high and we would have had better results by using more recharge water for proper product activation."

IN CONCLUSION

"Our general view of *PitCharger* is very positive. In each unit *PitCharger* significantly reduced the solids when compared to the units that were not treated."

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