

Robert Hill

From: Chuck Nygaard <crepair@itctel.com>
Sent: Monday, November 28, 2016 8:56 AM
To: Robert Hill
Subject: Oak Lake Dairy

Bob, could you please pass this on to the members of the P&Z Board? Please reply. Thanks

To the Planning and Zoning Board of Brookings County:

As a board former member of the Lake Hendricks Improvement Association, naturally our concern is runoff from the proposed dairy near Oak Lake into Deer Creek Watershed, continuing on to Lake Hendricks and Oak Lake. The biggest enemy of this site is the topography. A lot of time, effort, and money has been put forth in recent years to clean up the water in the lake, and we would hate to see this all go for naught, because as time goes by, we are seeing results of our efforts. We feel this will happen in one of four ways.

1. Problems stemming from leaks/mismanagement of the containment system/facility. Leaks probably wouldn't happen until sometime down the road, but as time goes on, that probability increases. Mismanagement can come at any time, whether it comes from feed, manure, dead animals, disease, chemicals, just to name a few. Some of these could also affect herds in pastures downstream, as pasture is a predominant land use in the watershed.

2. Runoff from heavy rainfall. In their plan, they address a 25 year rain event, which I believe is 4 inches of rain in a 24 hour period. This has gotten to be an event we pretty much plan on every year, if not 5 to 6 inches. One inch of rain on a 220 acre site equates to nearly 6 million gallons, so 4 inches is 24 million gallons. Where is that headed for? It won't be contained on the site, also doesn't help that it would be built on a hill.

3. Runoff from snowmelt. On the Buffalo Ridge, our weather is totally different even compared to Brookings. You can be driving from Brookings to Hendricks, and when you hit the curves by White or the valley, you can be in a different world. If anyone gets pounded with snow and wind, it's us. This could also hamper or endanger workers getting to and from the site. Police and Fire/Rescue don't appreciate looking for someone in a snowstorm. Everything accumulates in snowdrifts. When the melt comes, everything moves with the water. I would guess that this would also be one of the times the manure storage would be at its peak, and there is nowhere to go with it until fields dry out to apply manure. The plan also suggests that manure can be applied on top of snow, which one would think anyone would be opposed to. That area is nothing but hills and valleys.

4. Over application of manure. To be done correctly, soil tests need to be

done before manure should be applied. Application rates should coincide with what the next crop will use during the next crop year. We are aware that other facilities keep applying to the same fields year after year, just to get rid of the manure in close proximity to cut expense. We understand this is not well regulated in South Dakota once the permit is issued.

We feel it is not if this will happen, but when.
Our goals have not changed and that would be for the P&Z to vote this down, or at least have the issue tabled until correct information can be gathered by P&Z, or a different site be chosen.

Thank You for your time,

Chuck Nygaard
Hendricks MN