

PEACEFUL VALLEY SERVICE COMPANY
3408 B PEACEFUL VALLEY ROAD
OWENSVILLE MO. 65066

FILED

SEP 30 2014

Department of Natural Resources
Water Protection Program
P.O. Box 176
Jefferson City Mo. 65102
Attn: Lacey Hirschvogel

**Missouri Public
Service Commission**

Subject: Permit MO-0041467
Dear Ms Hirschvogel,

We are in the process of selecting an engineer to do the evaluation and are about to let a contract, probably to Integrity Engineering in Rolla.

In the meantime we are doing other things to help us understand our lagoon and it's discharge.

1. We have installed a wier box at the discharge so that we can record the discharge on a daily basis and also chart hourly variations in flow. This will give us a better reading of average, maximum and minimum flows.
2. We are charting lagoon discharge vs water pumped at the well. This gives us some idea of infiltration and the amount of water used for watering lawns and other summer activities.
3. We have continued measuring Ammonia at the lagoon discharge and started to take samples at the point where our creek enters Cedar Branch. This is very close to the end of Kuhne Road and very accessible. Our first reading at that point showed very little Ammonia, well below the permit allowable. This is the point where our effluent enters Cedar Branch and it is about 3 miles from the first classified section of Cedar Branch.

Following is a brief description of our terrain, sometimes it is hard to understand some pertinent features from a map.

Our discharge pipe is located about midway on the north bank of our lagoon and runs east thru a gravelly depression into a marshy area and joins with a small creek that drains about 200 acres of wooded hillside.

About 500 feet beyond the discharge this creek joins with the spillway from Peaceful Valley Lake. This is usually dry but after a rainstorm this can have a very heavy flow for a few days.

About 1000 feet further it is joined by another small creek from the east that drains about a 100 acre watershed, also wooded area with some hayfields.

About a half mile from the discharge the creek enters Cedar Branch at our sample point. The first classified part of Cedar Branch is still 3 miles away.

Our initial testing at the Cedar Branch junction shows very little nitrogen being discharged into Cedar Branch. If this negative testing continues for the next year we feel that we are in compliance and there is no need for the engineering study and upgrade. Naturally we will continue testing at the Cedar Branch junction to verify the initial test.

Please give us your thoughts on the above.

Sincerely,
Peaceful Valley Service Co.

August B. Hoernschemeyer P.E.
President

Exhibit No. 4
Date 9/23/14 Reporter R. Brewer
File No. SR-2014-0153
WR-2014-0154