

From: Brian Tremback
To: [Zoning Administrator](#); [Dean Bloch](#)
Subject: FW: Philo Ridge Well Narrative
Date: Wednesday, November 22, 2017 11:13:44 AM

Hi Lee and Dean,

With this response (below) from Dave Marshall, and the additional information he submitted by email on 11/15, all my review comments have been addressed. I'm all set.



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From: David Marshall [mailto:dmarshall@cea-vt.com]
Sent: Wednesday, November 22, 2017 10:36 AM
To: Brian Tremback <brian@ldengineering.com>
Subject: Philo Ridge Well Narrative

Hi Brian-

As a follow-up to our earlier discussion, please find outlined below our narrative relative protection of the new well from hazardous waste sites.

The Philo Ridge well is located on an unconsolidated soil deposit 114 thick of which 23 feet has been identified as clay and the remaining 91 feet being hardpan. This is significant as this is also generally the soil composition at the Charlotte Central School which is the nearest hazardous waste generator to the new well. Here the well log information indicates 125 feet of clay and hardpan over the bedrock.

The very low permeability soils prevent quick migration of potential contamination into the underlying aquifer. This is important, in case there is a spill that it can be more contained in the upper level of the unconsolidated soils with a very low probability of getting onto the aquifer before discovery and mitigation is undertaken.

In addition, the well is sited at a high point of the area topography that minimizes migration of contaminated water toward the well. The well is further hydrogeologically isolated through the

presence of localized drainages.

This is in addition to the general hypothesis previously submitted to the Town where the likely zone of pumping influence is relatively small in comparison to the travel distance to the nearest hazardous waste generator.

This completes our summary of the isolation benefits that the existing well has. If you should have any questions, please feel free to contact me at 864-2323 or via email.

Best Regards

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