



Johnson Bros Mills

2 messages

Johnson, Noral <noral.johnson@cpsagu.com>
To: "Cook, Dan [DNR]" <Dan.Cook@dnr.iowa.gov>

Fri, Dec 9, 2016 at 12:20 PM

Mr Cook

Please find attached the site assessment work plan for Johnson Bros Mills, Inc. of Shenandoah.

Noral Johnson

Representing Johnson Bros Mills Inc

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2016 JohnsonBrosMill-DNR EnvironmentalSiteAssementWorkPlan.pdf

126K

Cook, Dan <dan.cook@dnr.iowa.gov>
To: "Johnson, Noral" <noral.johnson@cpsagu.com>
Bcc: Dan Cook <dan.cook@dnr.iowa.gov>

Tue, Dec 20, 2016 at 9:30 AM

Mr. Johnson,

Regarding the former Johnson Brothers Mills in Shenandoah, Iowa I have reviewed your December 9, 2016 letter requesting site closure and have the following comments:

For the nitrate\ammonia groundwater levels - Finding ammonia in the groundwater indicates you may be near the source area and then it converts to nitrate found in the all the monitoring wells. Indications are this may be the source area.

For the groundwater flow direction - the July 17, 2013 Limited Subsurface Assessment noted the groundwater measurements were collected before the monitoring wells had time to stabilize and makes no comment to the wells locations being surveyed in reference to a benchmark. It is typical in a glacial till setting for the majority of groundwater flow to be in the vertical direction but looking at the nitrate results it appears the groundwater flow may be in the southeasterly direction.

For the nitrate background levels - a shallow till aquifer would only be impacted by a nearby source. Nitrate background should be zero to maybe 5mg/L at the most. Ammonia background should be zero as well.

The work plan for further soil/groundwater assessment will need to be submitted by January 20, 2017

Dan



Daniel Cook | Environmental Specialist Senior

Iowa Department of Natural Resources

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