

Ministry of the Environment
and Climate Change

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Ministère de l'Environnement et de
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November 23, 2015

Bonnie Pauze and Jake Pigeon
1189 Marshall Road
PO Box 1262
Tiny Township, Ontario
L0L 2J0

Dear Mrs. Pauze and Mr. Pigeon

The Ministry of Environment and Climate Change (MOECC) has reviewed your water well interference complaint regarding the Permit to Take Water # 4317-87CNZN (Permit) for Cedarhurst Quarries & Crushing Limited (Permit Holder) at the Teedon Pit, 90 Darby Road, Tiny Township (Teedon Pit). In response to your complaint a site visit was conducted on June 30, 2015, and the Permit Holder's hydrogeologist, Ross Campbell, produced a water well assessment report dated August 2015. Your hydrogeologist, Wilf Ruland, conducted his own assessment and presented a report on October 20, 2015. In response, Mr. Campbell, produced another report responding to Mr. Ruland's report on November 5, 2015.

I have reviewed the above noted reports as well as the documentation within the file the MOECC has for this Permit and conclude the following:

- I agree that when issuing the latest Permit in 2010, the MOECC should have kept the condition that required monitoring the surface elevation of the wash pond that was in the original 2008 Permit. I am requesting that the Permit Holder recommence with this type of monitoring and recommend that upon any requests to renew or amend the Permit that this condition be reinstated.
- The potential violations of the Permit regarding notification of well interference complaints have been forwarded to the MOECC's local environmental officer who is planning on conducting a Permit inspection of the Teedon Pit in the near future.
- I believe that sufficient hydrogeological investigations were completed on-site to warrant the issuance of the Permit when it was issued in 2010.
- I disagree with Mr. Ruland's conceptual model that silt from the wash pond is affecting local wells, including your well. It is not possible for silt to flow through a silt, sand and gravel aquifer as a silt plume as Mr. Ruland has proposed.

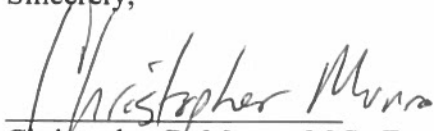
- I do not believe that your water well impacts are due to the water takings associated with the Permit for the Teedon Pit.

At the time of the site visit, it is clear that there is a silt issue with the well water at your house. I believe the silt issues with the house well and barn well are due to well construction and improper screen design. I cannot determine why the problem started in 2009; however, wells do deteriorate with age. My concern with the house well is that the silt that it is producing is likely coming from around the well screen (if a well screen is even present) and creating a void. With the house situated within a few metres of the well, I am concerned that this void may cause land subsidence that may damage or structurally compromise the house.

I strongly recommend that you hire a licensed well contractor and/or Professional Engineer/Professional Geoscientist to investigate your wells and that the appropriate actions be taken ensure that your wells stop discharging silt. Alternately, your current wells could be abandoned and a new well(s) be constructed.

Should you have any questions, please do not hesitate to contact myself at (416) 325-7487 or Mr. Mihran Aslanyan, who will be taking over this file, at (416) 326-4418.

Sincerely,



Christopher R. Munro, M.Sc.Eng., P.Eng.
Geological Engineer / Hydrogeologist

- cc. Helen Zhang, Supervisor, Water Unit, Technical Support Section, MOECC
Mihran Aslanyan, Hydrogeologist, Water Unit, Technical Support Section, MOECC
Greg Athron, Environmental Officer, Barrie District, MOECC
Robert E. Graham, Permit Holder, Cedarhurst Quarries & Crushing Limited
Ross Campbell, Alpha Environmental Services
Prabin Sharma, Aggregates Technical Intern, MNRF
Shawn Persaud, Manager of Planning & Development, Township of Tiny