

**Attachment D**

**Copy of Information re: Citizen Comments (Well Drawdown)  
(re: EIA File 4561-3-1228)**

## John Sims

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**From:** John Sims  
**Sent:** Wednesday, December 16, 2015 1:57 PM  
**To:** John Sims  
**Subject:** FW: Memramcook water project citizen concerns  
**Attachments:** Memramcook\_water\_supply\_properties\_oct\_16\_2015\_tabloid.pdf

**From:**  
**Sent:**  
**To:** \_\_\_\_\_  
**Subject:**

Dave,

Took a preliminary look at this and provide the following.

We had an observation well at 31 m (OW12-1D) from the pumping well and a second at 83 m (OW12-2D) from the pumping well monitoring the same interval as the interpreted production zone. These wells were between the pumping well and the “nearer” residents (e.g. [REDACTED] – see attached plot).

We saw drawdown in OW12-2D (83 m from pumping well) of approximately 12.3 m at the end of three days pumping. Using the “average” test pumping rate and calculated aquifer parameters from the test, I back calculated a theoretical drawdown at this location of 11.5 m, i.e. of the order of that observed.

Doing a similar theoretical drawdown calculation for the “nearer” residential wells located roughly 960 m from the pumping well, gives 0.14 m (14 cm) of drawdown at 3 days. This would suggest measureable drawdown could be observed although normally 14 cm would not be interpreted as unmanageable. This being said, given that we are dealing with fractured bedrock, drawdowns could possibly be greater if there are preferential fractures.

A related point is that our pumping rate was decreased during the test from an initial 311 l/gpm (0 to 21 hours pumping time) to 222 l/gpm (21 hours to end of 72 hour pumping period) for an average of 248 l/gpm. Our approved rate will likely be on the order of 200 l/gpm, and I believe our actual day to day operational yield will be much less than this on a 24 hour daily basis (e.g. cycling the well). These factors can be expected to provide adequate conditions and timeline to monitor and assess potential long term operational conditions.

John

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**From:**  
**Sent:**  
**To:**  
**Cc:**  
**Subject:**

John:

Need to discuss ASAP and draft a response for Memramcook.

Dave

**David Crandall, M.Eng., P.Eng, FEC**

**exp**

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*keep it green, read from the screen*

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**From:** Eric Mallet-Village de Memramcook [<mailto:eric@memramcook.com>]  
**Sent:** Thursday, October 15, 2015 3:33 PM  
**To:** Gilles Comeau <[Gilles.Comeau@exp.com](mailto:Gilles.Comeau@exp.com)>  
**Cc:** David Crandall <[david.crandall@exp.com](mailto:david.crandall@exp.com)>; Yves Leger-Village de Memramcook <[yves@memramcook.com](mailto:yves@memramcook.com)>  
**Subject:** Memramcook water project citizen concerns

Dave and Gilles,

Today I was made aware that some citizens have some concerns over the proposed water project. They fear that the water that will be pumped from the proposed new well is in the same aquifer as their current well. They claim to have noticed a drop in the level of their well while we conducted the pump testing. They fear that pumping this new proposed well at regular intervals could lead to their well becoming unusable because the lowered water table. Some noticed that overflow from their wells, which have always occurred, ceased during pumping. They want a reassurance that in the event that their wells dry up, that the someone other than themselves will take the financial responsibility to correct the situation.

Please guide us in the correct action to take with these concerned citizens.

The spokesperson's wells are located at [REDACTED] and has mentioned that people at addresses such as [REDACTED] have also raised concerns to him.

Thank you,

Eric Mallet  
Directeur des Opérations et Infrastructures  
Director of Operations and Infrastructure  
**Village de Memramcook**  
540, rue Centrale  
Memramcook, NB  
E4K 3S6  
Tel: 506-758-4078  
Télec. : (506) 758-4079  
Email: [eric@memramcook.com](mailto:eric@memramcook.com)

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