

## Phyllis Beaulieu

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**From:** Livingston, Tom [TLivingston@GOV.NU.CA]  
**Sent:** Sunday, June 29, 2008 3:21 PM  
**To:** gjoaasao@qiniq.com  
**Cc:** Dionne@nunavutwaterboard.org; Eno, Robert; macisaacb@inac-ainc.gc.ca; Broome, Craig [Yel]; Niptanatiak, Kevin; Slifka, Shane; Phyllis Beaulieu  
**Subject:** Gjoa Haven Sewage lagoon spill  
**Attachments:** Plain Language Sampling Instructions from IEG.pdf; Taiga Water Sampling Instructions.pdf; water License - Gjoa Haven.pdf

Hi, Don,

Thanks for notifying me on Friday afternoon regarding the spill of sewage from your lagoon. I also received your telephone message today corroborating that that your foreman has filled out and filed a spill report. I am glad to hear this. I require a copy. Now, if you have not already done so, tell him to also report any spills to the 24-hr Spill Report Line (867-920-8130). I have myself called Tony at that number, indicating that there may have been a spill from the lagoon, and he is waiting for a report from your foreman once you have the correct information on the nature and extent of this event. I am still waiting for pictures from you, which you had assured me would be sent on Friday. I do not know yet any details of the spill – or if, indeed, there was one - the understanding from Friday's conversation was incomplete. As we discussed, if there is a spill, it is required that you make out a spill report and that you mobilize your crews as soon as you are aware of the situation in order to repair the berm if necessary, using available, properly designated aggregate sources. Instruct your foreman to do this immediately, if it has not already been done. This is the hamlet's responsibility to deal with. I am copying this to others who will want to know, so we are all in the loop.

Inform your foreman that it is his responsibility to understand and comply with the terms of your water license.

Please get the pictures to me as soon as possible. I would also ask again that you send your foreman to determine if any breach in the lagoon walls has occurred, and, if so, how wide and how deep it is. Instruct your foreman to take accurate measurements – and perhaps more pictures if they will help in my understanding the situation. Today's or tomorrow's pictures of the wetland that is down-gradient from the lagoon will be most useful. Also, I need an estimate of the volume spilled, if any. I note that the lagoon capacity is 22,700 cu m. As instructed by me on Friday, there should be an overflow mechanism (culvert, spillway, etc) at a 1 m freeboard to prevent over-topping and catastrophic breaching. If this is not in place at this time, make sure your foreman re-installs the mechanism at once.

Instruct your foreman to take effluent samples at the various points according to the terms of the Monitoring Program of your water license, and also tell him he must sample for TSS, BOD, NH<sub>4</sub>, and FC at four additional locations along the effluent path, at approximate 250 m intervals, using the approved sampling procedures and equipment, and send them in to a lab for analysis. Remember that samples must be on the airplane in time or the labs cannot provide meaningful analyses. I am sending you some sampling methodologies for your reference. You will find an out-dated "Plain Language" methodology in your files. Please replace it with this one. We will want to know the results of these samples immediately. Have your foreman make this his highest priority. Inform me how this is going tomorrow. It is a good thing that you have a very long path through wetland before any effluent reaches the ocean outfall. Samples we have had taken in the past indicate that the wetland is doing an excellent job.

Note also that your water license expires on November 15, 2008. Instruct your foreman to begin the paperwork for renewal immediately, bringing up to date all past records and reports as required by the terms of the license (including an O&M manual, a QA/QC Plan, and an SN Program), and to comply with all remaining requests by INAC inspectors that he will find in their yearly inspection reports. I am attaching a copy of your water license with this e-mail.

If you have any questions, feel free to call me.

7/4/2008

Regards,

*Thomas G. Livingston, P. Eng.  
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