From:	Shawn Marshall
To:	Phyllis Beaulieu
Subject:	RE: NWB license query
Date:	Thursday, April 05, 2012 12:00:33 PM
Attachments:	100401-General_Water_Licence_Application-OEDE-Marshall.pdf 060621 Exploration-Remote Camp Questionnaire-ITME_Marshall.pdf

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Hi Phyllis
Please find attached the water license permit application for our proposed spring/summer research project on Ellesmere. I will forward two additional emails with the project summary translation in Inuktitut and confirming the NPC (NRI) Conformity. It is currently in review with NIRB and they expressed that they need to hear from you, so I suspect this needs to happen in parallel, as I understand it.
I will place a hardcopy in the mail along with a cheque for the administration fee and water fee, or feel free to invoice me here at the University of Calgary. Please let me know if you need anything else at this time.

best wishes,
Shawn

Shawn Marshall
Canada Research Chair in Climate Change
Department of Geography, University of Calgary
ES356 - 2500 University Dr NW
Calgary AB, T2N 1N4, Canada
shawn.marshall@ucalgary.ca

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From: Phyllis Beaulieu [licensing@nunavutwaterboard.org]
Sent: February-22-12 14:20
To: Shawn Marshall
Subject: RE: {Spam?} RE: license query

Attached is a copy of the application form and the remote camp questionnaire. Also required would be a spill contingency plan, project summary in English and Inuktitut, project name provided, name of Licensee, project area map, NPC Conformity, NIRB screening, administration fee of $30.00 and based on quantity of water there will also be a water use fee payable on an annual basis. Any questions please contact our office for assistance.
Regards,

-----Original Message-----
From: Shawn Marshall [mailto:shawn.marshall@ucalgary.ca]
Sent: Tuesday, February 21, 2012 5:10 PM
To: Phyllis Beaulieu
Subject: RE: {Spam?} RE: license query

Dear Phyllis,
Many thanks for the reply. This is the case - we'll have a remote camp and we will consume water/generate waste for camp activities (cooking, etc).
I am happy to fill out the requisite forms; great if you could pass these along.

thanks again,
Shawn

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From: Phyllis Beaulieu [licensing@nunavutwaterboard.org]
Sent: February-21-12 16:51
To: Shawn Marshall
Subject: {Spam?} RE: license query

Good day Shawn - if you are setting up a remote camp, using any water or generating any waste there is a requirement for a water licence. If this is the case you may contact me again and I can provide the necessary documents to be submitted.
Regards,

-----Original Message-----
From: Shawn Marshall [mailto:shawn.marshall@ucalgary.ca]
Sent: Sunday, February 12, 2012 10:16 AM
To: licensing@nunavutwaterboard.org
Subject: license query

Dear Madam/Sir

I am planning summer 2012 field research at the Prince of Wales Icefield, Ellesmere Island, organized through Polar Continental Shelf, Resolute. PCSP has asked me to check whether I might need a water license from your Board for the proposed research. Having read through the documentation online, I don't believe I do, but I think it is worh checking. Perhaps a type B license (activity 'miscellaneous') might be warranted.

We are working on the Icefield, doing weather, snowpack, and snow/ice melt measurements, and also at the edge of one of the outlet glaciers, where we will be doing stream gauging to measure the meltwater runoff. This does not require and water diversions, consumption, or pollution. We will be measuring stream discharge ~twice per day through profile measurements (wading in the stream to measure the current), and we will install a temporary (May through August) pressure sensor in the stream bed, to be removed on conclusion of our field season in summer 2012. We may also do stream discharge measurements through salt tracer techniques, that involve injection of 500 g of salt and measurement of the electrical conductivity signal ~50 m downstream. This method is estalbished in small streams and within a few 100 m of the tracer injection site, the salt is dispersed and cannot be detected. The stream of interest, on the glacier margin is ephemeral - a summer only (june-August) meltwater stream. There is no active ecology in the stream, to our knowledge, though it feeds into the Humphrey River and a few km later drains into Vendom Fiord.

Can you let me know if I should apply for a water license for this activity?
I am happy to do so and to explain things further, if needed.

Kind regards,
Shawn

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Canada Research Chair in Climate Change

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