

**From:** [Thomson, Barb](#)  
**To:** ["Sean Joseph"](#)  
**Cc:** [Phyllis Beaulieu](#)  
**Subject:** RE: 3BC-BAF0919, question about contaminated berm water  
**Date:** Tuesday, August 23, 2011 9:58:15 AM

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Hi Sean,

Thanks very much.

Barb

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**From:** Sean Joseph [mailto:sjoseph@nunavutwaterboard.org]  
**Sent:** Monday, August 22, 2011 3:56 PM  
**To:** Thomson, Barb  
**Cc:** Phyllis Beaulieu  
**Subject:** RE: 3BC-BAF0919, question about contaminated berm water

Hello Barb:

Sorry for not responding to your email sooner.

The treatment method and effluent parameters, articulated in your email below, for handling contaminated berm water are acceptable.

Regards,  
Sean

Sean Joseph  
Technical Advisor  
Nunavut Water Board  
Phone: 867-360-6338 Ext. 25  
Fax: 867-360-6369  
Email: [sjoseph@nunavutwaterboard.org](mailto:sjoseph@nunavutwaterboard.org)

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**Sent:** Monday, August 15, 2011 9:02 AM  
**To:** Sean Joseph  
**Subject:** FW: 3BC-BAF0919, question about contaminated berm water

Please respond back to Barb on her query. Thanks.

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**From:** Thomson, Barb [mailto:Barb.Thomson@nasittuq.com]  
**Sent:** Saturday, August 13, 2011 2:27 PM  
**To:** 'licensing@nunavutwaterboard.org'  
**Cc:** KKalen; nippernips@sympatico.ca  
**Subject:** 3BC-BAF0919, question about contaminated berm water

Hello Phyllis,

NWB water license 3BC-BAF0919 is for the DND radar site at Brevoort Island , Nunavut. The license, Part D. Item 10, states the discharge of effluent at Monitoring Station BAF-3 (Landfarm) and BAF-4 (Fuel Storage Facility) shall not exceed the effluent quality limits listed. This means water from the landfarm and berm water can be discharged if it is within the limits listed.

The landfarm was established to treat fuel contaminated soil from a past spill. The landfarm effluent is collected and run through a water treatment system (WTS). The treated effluent is sampled and is held until lab. results show it is within limits. Then it is discharged.

I want to confirm that the same step of using a WTS can be used to treat the fuel-water mixture collected after a spill occurred on-site on 29 Jul 2011. On this date, fuel spilled from tank W22D into the tank's berm. Immediately, the fuel left in the tank was pumped into a nearby empty double-walled 90,000 L tank. Since then the berm water (contaminated with fuel) also has been pumped into the double-walled tank. A second double-walled tank is now being filled with contaminated berm water. The spill clean-up plan has been submitted to Environment Canada (Curtis Didham, Iqaluit). In the plan, the fuel-water mixture will be put through a WTS, sampled, and if it is within limits, discharged. I want to confirm that this is acceptable under the water license since the WTS will be similar to what is used for the landfarm effluent. FYI, AANDC inspectors Andrew Keim and Kevin Robertson know about the spill as it was reported as required under the water license. Both Kevin Robertson, AANDC, and Curtis Didham, EnvCan, have been on-site.

I will be travelling from 15-22 August 2011. Please respond by e-mail and I will check e-mail when able.

Thanks,  
Barb

Barb Thomson  
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