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## Greywater disposal at Eureka - NWB

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**Laura MacKay** <Laura.MacKay@pwgsc-tpsgc.gc.ca>

Mon, May 25, 2020 at 9:25 AM

To: Richard Dwyer <richard.dwyer@nwb-oen.ca>

Cc: "Cloutier-Dussault, Jean-Philippe (EC)" <jean-philippe.cloutier-dussault@canada.ca>

Hello Richard,

Thank you again for your guidance with regards to ECCC and their contractor's activities at the Eureka High Arctic Weather Station. Based on the information that you, the NPC and CIRNAC have provided, ECCC has determined that their onsite contractor will not be installing a sump to discharge camp generated greywater into during this summer field season. ECCC has determined that for the 2020 summer field season, the black waste from the contractor camp will be collected with Pacto toilets and incinerated on site, and the grey water will be collected and discharged into the existing ECCC lagoon. As a result, ECCC understands that no amendments to the existing permits and licences are required at this time.

In future years, ECCC may consider having their onsite contractors use a sump to dispose of grey water. If this occurs, ECCC will apply for the applicable licences/permits as required within the appropriate timelines.

Thank you,

**Laura MacKay**

Senior Environmental Specialist, Environmental Services and Contaminated Sites Management

Public Services and Procurement Canada / Government of Canada

[Laura.MacKay@pwgsc-tpsgc.gc.ca](mailto:Laura.MacKay@pwgsc-tpsgc.gc.ca) Cel. :431-275-8316

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**From:** Richard Dwyer [mailto:[richard.dwyer@nwb-oen.ca](mailto:richard.dwyer@nwb-oen.ca)]

**Sent:** May 20, 2020 10:00 AM

**To:** Laura MacKay <[Laura.MacKay@pwgsc-tpsgc.gc.ca](mailto:Laura.MacKay@pwgsc-tpsgc.gc.ca)>

**Cc:** [licensing@nwb-oen.ca](mailto:licensing@nwb-oen.ca); [pscholz@nunavut.ca](mailto:pscholz@nunavut.ca); [gdjalogue@nunavut.ca](mailto:gdjalogue@nunavut.ca); [Paul.Barsalou@aecom.com](mailto:Paul.Barsalou@aecom.com);

Derek Donald <[derek.donald@nwb-oen.ca](mailto:derek.donald@nwb-oen.ca)>; Karén Kharatyan <[karen.kharatyan@nwb-oen.ca](mailto:karen.kharatyan@nwb-oen.ca)>

**Subject:** Re: Please Respond: Greywater disposal at Eureka

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Good morning Laura,

This will require an amendment to the water licence.

Regards,

Richard



On Wed, May 20, 2020 at 7:45 AM Laura MacKay <[Laura.MacKay@pwgsc-tpsgc.gc.ca](mailto:Laura.MacKay@pwgsc-tpsgc.gc.ca)> wrote:

Good Morning Richard and NWB Licencing;

I am just following up to confirm if you received my message from last week? We will need to start arranging for the logistics of this immediately, and were hoping to receive a response from you as soon as possible. Please feel free to call me if you would like to chat. Or let me know if there is another contact that I should follow up with.

Thank you very much.

**Laura MacKay**

Senior Environmental Specialist, Environmental Services and Contaminated Sites Management

Public Services and Procurement Canada / Government of Canada

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**From:** Laura MacKay

**Sent:** May 14, 2020 10:20 AM

**To:** 'richard.dwyer@nwb-oen.ca' <[richard.dwyer@nwb-oen.ca](mailto:richard.dwyer@nwb-oen.ca)>

**Cc:** 'licensing@nwb-oen.ca' <[licensing@nwb-oen.ca](mailto:licensing@nwb-oen.ca)>; 'pscholz@nunavut.ca' <[pscholz@nunavut.ca](mailto:pscholz@nunavut.ca)>; 'gdjalogue@nunavut.ca' <[gdjalogue@nunavut.ca](mailto:gdjalogue@nunavut.ca)>; 'Paul.Barsalou@aecom.com' <[Paul.Barsalou@aecom.com](mailto:Paul.Barsalou@aecom.com)>

**Subject:** Re: Greywater disposal at Eureka

**Importance:** High

Good Morning Richard,

I have been assisting ECCC with the regulatory processes at the Eureka High Arctic Weather Station (HAWS) and have been asked to follow up with your email below to Paul Barsalou (whom is one of the Consultants working onsite). Thank you for providing the information below to Paul. It is much appreciated. I wanted to further clarify a few items and ask for additional guidance.

ECCC currently has a valid water license, land use permit and NIRB approvals for the existing operations and activities at the Eureka HAWS. They include the following:

- *8BC-EUR1621 Type 'B' Water Licence – Original (August 11, 2016)*
- *8BC-EUR1621 Type 'B' Water Licence – Amendment No.1 (July 18, 2018)*
  
- *Land Use Permit N2017N0017 (originally issued July 4<sup>th</sup>/August 8<sup>th</sup>, 2017)*
- *Conditions Annexed to and Forming Land Use Permit Number N2017N0017 (June 18, 2018)*
  
- *NIRB Screening Decisions Report: File No 12XN020 (June 1, 2018)*

The scope of the activities at the site have not changed since ECCC received these original regulatory approvals. However, beginning immediately, ECCC has informed the contractors that they are no longer to dispose of their black water and grey water at the existing sewage treatment plant facility and lagoon. As a result, the contractors propose to do the following for the 2020 field season (starting June 7<sup>th</sup>, 2020):

- All black water will be collected with Patco toilets and incinerated.
- Grey water will be collected in a storage tank, and batch discharged into a depression/sump. The sump will be located 200-300m from the nearest waterbody (ocean). An estimated 3,570 liters (3.57 cubic meters) of grey water will be produced daily from the camp.
- There is no planned change in water usage quantities from the original water license.
- The contractor plans to have a camp of 30 people this summer construction season (which is below the numbers listed in the original license/permit applications).

**Based on the information above, ECCC would like to confirm if the disposal of grey water to a pump now requires an amendment to the existing water license, land use permit and/or NIRB approval?**

As the contractor plans to be onsite in early June, any information that you could provide as soon as possible would be greatly appreciated. Please feel free to call or email me if you require further clarification.

Thanking you in advance.

**Laura MacKay**

Senior Environmental Specialist, Environmental Services and Contaminated Sites Management

Public Services and Procurement Canada / Government of Canada

[Laura.MacKay@pwgsc-tpsgc.gc.ca](mailto:Laura.MacKay@pwgsc-tpsgc.gc.ca) Cel. :431-275-8316

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**From:** Richard Dwyer <[richard.dwyer@nwb-oen.ca](mailto:richard.dwyer@nwb-oen.ca)>

**Sent:** Thursday, May 7, 2020 4:19 PM

**To:** Barsalou, Paul <[Paul.Barsalou@aecom.com](mailto:Paul.Barsalou@aecom.com)>

**Cc:** Licensing Department <[licensing@nwb-oen.ca](mailto:licensing@nwb-oen.ca)>; Peter Scholz <[pscholz@nunavut.ca](mailto:pscholz@nunavut.ca)>; Goump Djalogue <[gdjalogue@nunavut.ca](mailto:gdjalogue@nunavut.ca)>

**Subject:** [EXTERNAL] Re: Greywater disposal at Eureka

Good afternoon Paul,

If you are using less than 50m3 of water per day and your only waste is grey water and sewage that will be disposed of in a sump then all you require is an approval for water use without a water license, application attached.

I've also attached guide 3, 4 and 9 as well as the Nunavut Water Regulations to help you determine what type of approval or water license you require.

Please submit with your application the following:

- Project Summary in Inuktitut & English
- Map of the Project Area
- Completed application
- \$30.00 application fee

I'm copying Peter Scholz and Goump Djalogue with the Nunavut Planning Commission (NPC). You'll first need to go through the NPC as per Section 11.5.9 and s. 76 (1) of Nunavut Planning and Project Assessment Act (NuPPAA), the proponent of a project governed by NuPPAA is also required to submit a project proposal document directly to the Nunavut Planning Commission (NPC or Commission) for the NPC's determination regarding the applicable land use planning requirements and/or directions regarding whether the project is subject to screening by the Nunavut Impact Review Board. In particular, please note that as established under Articles 11, 12 and 13 of the Nunavut Agreement, NuPPAA and Part 3 of the Nunavut Waters and Nunavut Surface Rights Tribunal Act, until the project has completed the applicable land use planning and assessment process required by the NPC and the NIRB, the NWB cannot issue a water licence/approval.

Regards,

Richard

On Thu, May 7, 2020 at 1:41 PM 'Barsalou, Paul' via Licensing Department <[licensing@nwb-oen.ca](mailto:licensing@nwb-oen.ca)> wrote:

Hi, I am trying to get a hold of some one at the Water Board- Hopefully today to get info on Grey water treatment for camps. I have tried to get a hold of Ida, but no luck lately – maybe I have the wrong address.

I have a meeting with Environment Canada Friday at 8 am so I really would like to talk about this with you on Thursday. Please call me at 204-781-2897. Can I get your number so that I could get a hold or you?

Thanks

Paul

I am working on the Eureka Weather station water and wastewater upgrade. There will be another project including a runway repair starting this summer. Both of these projects will have their own camp with the associated wastewater. I was wondering what the current rules are in Nunavut for this type of camp (3 months per summer for 3 consecutive years). The camps will hold about 20-30 people each.

I was wondering if the Water Board allows grey water disposal in seepage pits or as irrigation. Then independent treatment of the black water (incinerate or compost).

Is this an option for this summer, as the contractors will likely not be using the Station Lagoon.

I am not sure what mining camps or similar need to do.

If you could get back to me soon that would be great as we are mid planning and could use input.

Thanks

Paul Barsalou

AECOM

204 781 2897

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**From:** Mark Mogan <[Mark.Mogan@pwgsc-tpsgc.gc.ca](mailto:Mark.Mogan@pwgsc-tpsgc.gc.ca)>  
**Sent:** Tuesday, April 28, 2020 2:17 PM  
**To:** Barsalou, Paul <[Paul.Barsalou@aecom.com](mailto:Paul.Barsalou@aecom.com)>  
**Subject:** [EXTERNAL] FW: Greywater disposal at Eureka

Hi Paul,

Please see below.

Much appreciated.

Thank you

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**From:** Cloutier-Dussault, Jean-Philippe (EC) [<mailto:jean-philippe.cloutier-dussault@canada.ca>]