Cover Page

This document is reproduced electronically and contains 40 pages including the cover page. The electronic document is contained in the following PDF files:
1. Gilchrist Belcher Islands Water Licence Application 2011
2. Gilchrist Belcher Islands Maps 2011
3. Gilchrist Spill Contingency Plan 2011
4. Gilchrist Sanikiluaq Letter of Support 2011

List of documents included in this application:

	Description
(1)	Nunavut Water Board Application in English
(2)	Executive Summary in English
(3)	Executive Summary in Inuktitut
(4)	Letter of authorization
(5)	Map of region
(6)	Map of camp site
(7)	Spill Contingency Plan
(8)	Material Safety Data Sheets + Nunavut Spill Form
(9)	Sanikiluaq HTA support letter
(10)	

General Water Licence Application
(Application for a new Water Licence)

April 2010

P.O. BOX 119
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OFFICE DES EAUX DU NUNAVUT

DOCUMENT MANAGEMENT

Original Document Date: April 2010

DOCUMENT AMENDMENTS

	Description	Date
(1)		
(2)		
(3)		
(4)		
(5)		
(6)		
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(9)		
(10)		

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GENERAL WATER LICENCE APPLICATION
(APPLICATION FOR NEW WATER LICENCE)

The applicant is referred to the NWB's Guide 4: *Guide to Completing and Submitting a Water Licence Application for a New Licence* for more information about this application form.

LICENCE NO:
(for NWB use only)

1. APPLICANT (PROPOSED LICENSEE) CONTACT INFORMATION (name, address)

Grant Gilchrist
Environment Canada
NWRC, Carleton University
1125 Colonel By Dr.
Ottawa, ON, K1A 0H3

Phone: ____(613) 998-7364
Fax: _____(613)998-0458_____
e-mail: ____grant.gilchrist@ec.gc.ca__

2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address)

Amie Black
Environment Canada
NWRC, Carleton University
1125 Colonel By Dr.
Ottawa, ON, K1A 0H3

Phone: ___(613)998-8523_____
Fax: ___(613)998-0458_____
e-mail: ___amie.black@ec.gc.ca_____
(Attach authorization letter.)

3. NAME OF PROJECT (including the name of the project location)

Detecting Avian Cholera in the Hudson Bay Common Eider (*Somateria mollissima sedentaria*) in the Belcher Island Archipelago, Nunavut

4. LOCATION OF UNDERTAKING

Project Extents

NW: Latitude: (55 ° 55 ' " N) Longitude: (80 ° 00 ' " W)
NE: Latitude: (55 ° 55 ' " N) Longitude: (79 ° 45 ' " W)
SE: Latitude: (55 ° 45 ' " N) Longitude: (79 ° 45 ' " W)
SW: Latitude: (55 ° 45 ' " N) Longitude: (80 ° 00 ' " W)

Camp Location(s)

Latitude: (55 ° 49 ' 21 " N) Longitude: (79 ° 53' 55 " W)

5. MAP - Attach a topographical map, indicating the main components of the undertaking.

NTS Map Sheet No.: _33 M13___ Map Name: Freakly Point Map Scale: _1:50 000

6. NATURE OF INTEREST IN THE LAND - Check any of the following that are applicable to the proposed undertaking (at least one box under the 'Surface' header must be checked).

Sub-surface

☐ Mineral Lease from Nunavut Tunngavik Incorporated (NTI)
Date (expected date) of issuance: _____ Date of expiry: _____

☐ Mineral Lease from Indian and Northern Affairs Canada (INAC)
Date (expected date) of issuance: _____ Date of expiry: _____

Surface

☐ Crown Land Use Authorization from Indian and Northern Affairs Canada (INAC)
Date (expected date) of issuance: _____ Date of expiry: _____

☐ Inuit Owned Land (IOL) Authorization from Kitikmeot Inuit Association (KIA)
Date (expected date) of issuance: _____ Date of expiry: _____

☐ IOL Authorization from Kivalliq Inuit Association (KivIA)
Date (expected date) of issuance: _____ Date of expiry: _____

X IOL Authorization from Qikiqtani Inuit Association (QIA)
Date (expected date) of issuance: __25 Feb 2009 Date of expiry: __28 Feb 2011_____

☐ Commissioner's Land Use Authorization
Date (expected date) of issuance: _____ Date of expiry: _____

☐ Other: _____
Date (expected date) of issuance: _____ Date of expiry: _____

Name of entity(s) holding authorizations:
_____Grant Gilchrist/Amie Black_____

7. NUNAVUT PLANNING COMMISSION (NPC) DETERMINATION

Indicate the land use planning area in which the project is located.

☐ North Baffin
x South Baffin
☐ Akunniq
☐ Keewatin
☐ Sanikiluaq
☐ West Kitikmeot

Is a land use plan conformity determination required?

☐ Yes X No

If Yes, indicate date issued and attach copy
If No, provide written confirmation from NPC confirming that a land use plan conformity review is not required.

8. NUNAVUT IMPACT REVIEW BOARD (NIRB) DETERMINATION

Is an Article 12 Part 4 screening determination required?

X Yes ☐ No

If Yes, indicate date issued and attach copy ____In progress_____
If No, provide written confirmation from NIRB confirming that a screening determination is not required.

9. DESCRIPTION OF UNDERTAKING – List and attach plans and drawings or project proposal.

See attached.

10. OPTIONS – Provide a brief explanation of the alternative methods or locations that were considered to carry out the project.

This area is one of the few places that support wildlife during the arctic winter. No other location is relevant to our study.

11. CLASSIFICATION OF PRIMARY UNDERTAKING - Indicate the primary classification of undertaking by checking one of the following boxes.

☐ Industrial ☐ Agricultural
☐ Mining and Milling (includes exploration/drilling/exploration camps)
X Conservation
☐ Municipal (includes camps/lodges) ☐ Recreational
☐ Power ☐ Miscellaneous (describe below):
_____

See Schedule II of *Northwest Territories Waters Regulations* for Description of Undertakings.

Information in accordance with applicable Supplemental Information Guidelines (SIG) must be submitted with a New Water Licence Application. Indicate which SIG(s) are applicable to your application.

☐ Hydrostatic Testing
☐ Tannery
☐ Tourist / Remote Camp
☐ Landfarm & On-Site Storage of Hydrocarbon Contaminated Soil
☐ Onshore Oil and Gas Exploration Drilling
☐ Mineral Exploration / Remote Camp
☐ Advanced Exploration
☐ Mine Development
☐ Municipal
☐ General Water Works
☐ Power

12. **WATER USE -** Check the appropriate box(s) to indicate the type(s) of water use(s) being applied for.

X To obtain water for camp/ municipal purposes
☐ To obtain water for industrial purposes
☐ To cross a watercourse
☐ To alter the flow of, or store water
☐ Other: _____
☐ To divert a watercourse
☐ To modify the bed or bank of a watercourse
☐ Flood control

13. **QUANTITY AND QUALITY OF WATER INVOLVED -** For each type of water use indicated in Block 12, provide the source of water, the quality of the water source and available capacity, the estimated quantity to be used in cubic meters per day, method of extraction, as well as the quantities and qualities of water to be returned to source.

Name of water source(s) (show location(s) on map):
_____Snow and ice near cabin and at hunting grounds, map location not applicable. Unnamed pond located approximately 100m from cabin.

Describe the quality of the water source(s) and the available capacity: _____
_____In the winter there is ample snow and ice for the minimal amount of water we require. During the summer we will use water from a nearby pond, which is of an unknown quality.
_____

Provide the overall estimated quantity of water to be used: _____0.05_____ m^3/day

Provide the estimated quantity(s) of water to be used from each source:
_____Most water will be from snow and ice, a small amount from a nearby pond_____

Indicate the estimated quantities to be used for each purpose (camp, drilling, etc.)
_____All water will be for camping purposes (washing dishes, drinking, etc)

Describe the method of extraction(s): ___Shovel_____

Estimated quantity(s) of water returned to source(s) _____0_____ m^3/day

Describe the quality of water(s) returned to source(s): _____
_____0_____
_____

14. **WASTE** – Check the appropriate box(s) to indicate the types of waste(s) generated and deposited.

X Sewage
X Solid Waste
☐ Hazardous
☐ Bulky Items/Scrap Metal
☐ Animal Waste
☐ Other (describe): _____
☐ Waste oil
X Greywater
☐ Sludges
☐ Contaminated soil and/or water

15. QUANTITY AND QUALITY OF WASTE INVOLVED – For each type of waste indicated in Block 14, describe its composition, quantity in cubic meters/day, method of treatment and method of disposal.

Type of Waste	Composition	Quantity Generated	Treatment Method	Disposal Method
Sewage		2L/day	None	Sump >150m from high tide line, where possible
Greywater		0.05m^3/day	None	Sump >150m from high tide line, where possible
Solid Waste		<10lbs/day	None	Municipal landfill

16. OTHER AUTHORIZATIONS – In addition to the sub-surface and surface land use authorizations provided in Block 6, indicate any other authorizations required in relation to the proposed undertaking. For each provide the following:

Authorization: _ Land Use permit_____

Administering Agency: ___ Qikiqtani Inuit Association_____

Project Activity: ____Cabin use and travel on land_____

Date (expected date) of issuance: _Feb 25 2009 Date of expiry: Feb 28, 2011 (will be renewed)

Authorization: __CWS Scientific Permit_____

Administering Agency: ___Canadian Wildlife Service

Project Activity: ___Scientific research involving birds_____

Date (expected date) of issuance: late _January____ Date of expiry: March 31, 2013_____

Authorization: __Animal Care Approval_____

Administering Agency: ___Environment Canada

Project Activity: ___Scientific research involving birds_____

Date (expected date) of issuance: __Dec 8 2010___ Date of expiry: March 25, 2011 _____

Authorization: __Nunavut Scientific Permit_____

Administering Agency: ___Nunavut Department of Environment_____

Project Activity: ___Scientific research involving birds_____

Date (expected date) of issuance: late _January____ Date of expiry: March 31, 2011 _____

17. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES - Describe direct, indirect, and cumulative impacts related to water and waste.

We expect our impact to be minimal as we are a small group and are not using a large amount of dangerous materials. We will be using a small amount of gasoline, kerosene, and white gas. We have a spill contingency plan in place, and spill kits available should a spill occur.

We will be depositing grey water and sewage at the site in a sump located > 150m away from high tide marks. The small number of people involved with the project and the large area that we will be covering, should allow us to minimize our impact on water resources in the area.

18. WATER RIGHTS OF EXISTING AND OTHER USERS OF WATER

Provide the names, addresses and nature of use for any known persons or properties that may be adversely affected by the proposed undertaking, including those that hold licences for water use in precedent to the application, domestic users, in-stream users, authorized waste depositors, owners of property, occupiers of property, and/or holders of outfitting concessions, registered trapline holders, and holders of other rights of a similar nature.

Advise the Board if compensation has been paid and/or agreement(s) for compensation have been reached with any existing or other users.

We do not know of interested parties that might be impacted by our work.

19. INUIT WATER RIGHTS

Advise the Board of any substantial affect of the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL), and advise the Board if negotiations have commenced or an agreement to pay compensation for any loss or damage has been reached with one or more Designated Inuit Organization (DIO).

We do not believe our activities will affect the quality, quantity or flow of waters flowing through Inuit Owned Lands. We will be using a very small amount of water, mostly for drinking water and dish washing water.

20. CONSULTATION – Provide a summary of any consultation meetings including when the meetings were held, where and with whom. Include a list of concerns expressed and measures to address concerns.

We meet with the Sanikiluaq HTA when we conduct our research. They are always aware of what we are doing, and have always provided support for our research.

21. SECURITY INFORMATION

Provide an estimate of the total financial security for final reclamation equal to the total outstanding reclamation liability for land and water combined sufficient to cover the highest liability over the life of the undertaking. Estimates of reclamation costs must be based on the cost of having the necessary reclamation work done by a third party contractor if the operator defaults. The estimate must also include contingency factors appropriate to the particular work to be undertaken.

Where applicable, the financial security assessment should be prepared in a manner consistent with the principals respecting mine site reclamation and implementation found in the *Mine Site Reclamation Policy for Nunavut,* Indian and Northern Affairs Canada, 2002.

Our project is very small-scale, so the cost of reclamation of the area around the cabin would be minimal.

22. FINANCIAL INFORMATION

Provide a statement of financial responsibility.

If the applicant is a business entity, provide a list of the officers of the company.

If the applicant is a business entity attach a copy of the Certificate of Incorporation or evidence of registration of the company name.

Our funding is provided by Environment Canada, a federal department. It is stable, and covers the cost of our research and associated activities.

23. STUDIES UNDERTAKEN TO DATE - List and attach copies of studies, reports, research, etc.

None.

24. **PROPOSED TIME SCHEDULE** – Indicate the proposed start and completion dates for each applicable phase of development (construction, operation, closure, and post closure).

Construction
Proposed Start Date: _____ (month/year) Proposed Completion Date: _____ (month/year)

Operation
Proposed Start Date: _____3/2011_____ (month/year) Proposed Completion Date: ____ongoing_____ (month/year)

Closure
Proposed Start Date: _____ (month/year) Proposed Completion Date: _____ (month/year)

Post - Closure
Proposed Start Date: _____ (month/year) Proposed Completion Date: _____ (month/year)

For each applicable phase of development indicate which season(s) activities occur.

Construction
☐ Winter ☐ Spring ☐ Summer ☐ Fall ☐ All season

Operation
X Winter ☐ Spring X Summer ☐ Fall ☐ All season

Closure
☐ Winter ☐ Spring ☐ Summer ☐ Fall ☐ All season

Post - Closure
☐ Winter ☐ Spring ☐ Summer ☐ Fall ☐ All season

25. **PROPOSED TERM OF LICENCE**

Number of years (maximum of 25 years): _____3_____ years

Requested Date of Issuance: ____2/2011_____ (month/year) Requested Expiry Date: ____3/2014_____ (month/year)

(The requested date of issuance must be at least three (3) months from the date of application for a type B water licence and at least one (1) year from the date of application for a type A water licence, to allow for processing of the water licence application. These timeframes are approximate and do not account for the time to complete any pre-licensing land use planning or development impact requirements, time for the applicant to prepare and submit a water licence application in accordance with any project specific guidelines issued by the NWB, or the time for the applicant to respond to requests for additional information. See the NWB's *Guide 5: Processing Water Licence Applications* for more information)

26. **ANNUAL REPORTING –** If not using the NWB's *Standardized Form for Annual Reporting*, provide details regarding the content of annual reports and a proposed outline or template of the annual report.

27. **CHECKLIST –** The following must be included with the application for the water licensing process to begin.

Written confirmation from the NPC confirming that NPC's requirements regarding land use plan conformity have been addressed.

☐ Yes X No If no, date expected ____Jan 2011_____

Written confirmation from the NIRB confirming that NIRB's requirements regarding development impact assessment have been addressed.

☐ Yes X No If no, date expected _____Feb 2011_____

Completed General Water Licence Application form.

X Yes ☐ No If no, date expected _____

Information addressing Supplemental Information Guideline (SIG) , where applicable (see Block 11)

☐ Yes ☐ No If no, date expected _____

English Summary of Application.

X Yes ☐ No If no, date expected _____

Inuktitut and/or Inuinnaqtun Summary of Application.

X Yes ☐ No If no, date expected _____ _____

Application Fee of $30.00 CDN (Payee Receiver General for Canada).

☐ Yes X No If no, date expected _____Exempt_____

Water Use Fee Deposit of $30.00 CDN (Payee Receiver General for Canada). The actual water use fee will be calculated by the NWB based upon the amount of water authorized for use in accordance with the Regulations at the time of issuance of the licence.

☐ Yes X No If no, date expected _____Exempt_____

28. **SIGNATURE**

Grant Gilchrist	**Research Scientist**		
Name (Print)	**Title (Print)**	**Signature**	**Date**

Executive Summary

We are proposing to conduct biological research in the southern Belcher Island Archipelago, Nunavut. We have a cabin located at 55° 49' 21" N 79° 53' 55"W which we hope to use as a base camp during our study.

We hope to work with local Inuit hunters to collect swabs, tissue, feather, and blood samples from eiders over-wintering in the polynyas and leads near Sanikiluaq. These samples will be analysed for avian cholera, and will indicate whether the disease has reached the wintering grounds of Common Eiders in Nunavut and possibly where the disease originated from. They will also inform us about what other breeding areas the disease may be carried to by infected birds over-wintering in the polynya.

Using snowmobiles, we hope to accompany hunters to their hunting grounds for1-3 weeks between January and March. During this time, we would be collecting snow and ice to melt for drinking water and to wash dishes.

We also hope to conduct summer field work, the scope of which is yet to be determined. During that time we would use water from a nearby pond for dish washing, and drinking if it is determined to be safe for consumption. If not safe for consumption we would source our drinking water from the closest creek or transport it to the site from the town of Sanikiluaq.

The quantity of water we would use is minimal, approximately 0.05 m^3/day. We would generate approximately 2L of sewage per day and 0.05 m^3/day of grey water. Sewage and grey water will be disposed in sumps located > 150m above the high tide line where possible. We will also generate a minimal amount of solid waste, which we will transport back to Sanikiluaq to be disposed of in the municipal landfill.

Considering the small number of people involved in this project (5 or less), the short period of time we plan to be on the land (1-3 weeks), and the minimal amount of water we plan to use, we do not expect that our activities will negatively affect anyone. A small fuel spill is a possibility as we use kerosene, gas, and white gas in our daily activities. To mitigate the effects of a possible spill we have developed a spill contingency plan, and have a spill kit at the site.

We hope to conduct our winter field research for 1-3 weeks from January to March, dependent on licence and permit approvals.

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ᐊᒪᓲᓂᒃ ᖃᐅᔨᓴᓂᖅᑕᕐᓯᐊᕈᒪᔭᕐᒧᑦ ᓂᒋᖅᓯᓯᐊᓂ ᓴᓂᑭᓗᐊᕋᓱᐅ ᓄᑕᖅᑲᒃᑐᑦ, ᓄᓇᕗᒻᒥ. ᐃᓕᓴᕆᔨᖅᑕᑦ ᐃᓂᖅᑲᖅᑐᒥᒃ ᐅᕐᓂ 55º 49’ 21” ᐅᐊᵒᓇ 79º 53’ 55”ᐱᖓᵒᓇᖅ ᐊᑐᕋᓯᐊᕈᒪᓴᒋᑐᵒᓂᒃ ᓄᓇᒋᑲᐃᵒᓇᓴᑐᒍ ᖃᐅᔨᓴᓂᒋᑐᵒᓂ.

ᐱᓕᓇᖅᑎᖅᑭᵒᓇᕈᒪᔭᕐᒧᑦ ᓄᓇᓕᒥᐅᑕᕋᓂᒃ ᐃᓄᵒᓂᒃ ᐊᖓᓇᓯᒃᑎᓂᒃ ᓄᐊᕋᑎᓇᓯᑎᓪᓗᑕ ᖃᐅᔨᓴᖏᓴᓂᒃ, ᑎᒥᖏᑭᵒᓂᑦ, ᓯᓗᵒᓂᒃ, ᐊᒻᒪ ᐊᐅᵒᓂᒃ ᖃᐅᔨᓴᖏᓴᓂᒃ ᒥᑎᐊᓂᑦ ᐅᑭᐊᓕᓯᓂᑦ ᐊᐅᖅᑲᕋᓂᓂᒃ ᐊᒻᒪ ᓇᖑᔪᓂᑦ ᖃᐅᔨᓴᖏᓴᓂᒃ ᑐᓂᔭᕐᓗᒃ. ᑕᒪᑦᑯᐊ ᖃᐅᔨᓴᖏᓴᐃᑦ ᕿᑎᖅᑕᐊᓂᑦ ᐃᕐᖃᐃᵒᓂᒃ (ᑲᓗᕆ), ᐊᒻᒪ ᓇᓗᓇᐃᑕᐅᓂᐊᖅᑐᓂ ᑕᵒᓇ ᐋᵒᓂᐊᖅ ᑎᐹᐅᑎᓯᒪᓚᐊᖏᖓ ᐅᑭᐊᓕᓚᕐᑐᵒᓗᓂ ᑎᑎᑐᓗᑕᵒᓇᐃᐃᓂ ᓄᓇᕗᒻᒥ ᐊᒻᒪ ᐊᐅᵒᓂᒃ ᑕᒪᵒᓇ ᐋᵒᓂᐊᖅ ᓇᐹᓂ. ᖃᐅᔨᓴᐸᑎᑎᓂᐊᓚᐅᓂᖅ ᓇᒥᖅᑲᓂᖅ>ᔪᓂ ᐊ>ᑎᑎᒃ ᐊᒻᒪ ᓂᓪᒪ7ᒥᒃ ᐃᒥᖏᓱᑎᵒᓂᒃ ᐊᒻᒪ ᐃᕐᓯᓯᐸᖏᓱᓂᒃ ᓂᕆᓚᑎᓂᒃ.

ᐱᓕᓚᓇᓯᐊᕈᒪᑎᑭᔪᓂᕈᕐᓄ ᐊᐅᓴᐅᓕᓄᖅᐸᑦ ᓄᓇᒥ, Ċᒃᓯᒪ ᐊᖓᑎᑎᓂᓂᖏᓱᖓ ᓯᓕ ᓇᓗᓇᐃᓄᖅᑕᐅᓴᓚᐊᓕᓚᒃ. ᑕᐃᒃᓯᒪᓂᒃ ᐊᑐᖏᑕᑕᕋᓄᖅᑐᔪᓂ ᐃᒥᕐᒃ ᖏᓂᑎᑦᓴᖅᑐᑦ ᑕᓯᕐᒥᒃ ᓂᕆᓚᑎᓂᒃ ᐃᕐᑭᒃᓯᓴᐸᑎᒃᑕᒃ, ᐊᒻᒪ ᐃᒥᒃᑕᒃ ᓇᓗᓇᐃᓄᖅᑕᐅᐸᑦᑦ ᐊᑦᑕᓇᓱᖓᑎᓂᖓᖓ ᐃᒥᓚᓗᐊ. ᐊᑦᑕᓇᓄᖅᐸᑦ ᐃᒥᓚᓗᐊ ᐃᒥᒃᑕᖏᖏᕐᓯᐊᕋᕋᓄᖅᑐᔪᓂ ᖏᓂᒋᒪᑦᑦ ᑯᓂᒪᑦᑦ ᐅᐊᓂᒪᓂᑦ ᐅᓯᓗᑕ ᐃᓂᓪᓚᑎᓂᒃ ᐅᑭᐊᓕᓚᑦᑦ.

ᐃᒥᕐᒃ ᐊᑐᕋᓄᖅᑐᔪ ᒥᑭᔾᑕᓗᒥᒃ, ᐊᖓᑎᑎᑎᓂᓕᒥᒃ ᖏᓂᑎᑦᓴᖅᑐᔪᓂ 0.05 m3/ᐅᑦᑕᕋᒥ. ᐊᑐᖏᑦᑕᑭᓴᓄᖅᑐᔪᓂ ᐊᖓᑎᑎᑎᓂᓕᵒᓂᒃ ᖏᓂᑎᑦᓴᖅᑐᔪᓂ 2 ċᑕᓂᒃ ᕿᑯᕕᒃᓯᒪ ᐊᑕᐅᓱᕐᒥ ᐅᑦᑕᕋᒥ ᐊᒻᒪ 0.05 m3/ᐅᑦᑕᓗᒋᑦ ᐃᕐᑭᓄᖅᓱᔾᔨᑎᑎᓂᓂᕐᒥᒃ ᐃᒥᕐᒃ. ᕿᑯᕕᒃᓯᒪᓯᑦ ᐊᒻᒪ ᐃᕐᑭᓄᖅᓱᔾᔨᑎᒥᓂᒃ ᐃᒥᕐᓄ ᐊᑕᕐᓄᑕᐅᕐᖏᑦᑕᓂᐊᕋᓂᒃ ᐃᓱᓄᒃᓄᓇᓂᑦ ᐃᓂᖅᑲᓇᓂᑦ > 150 ᒫᑕᓂᒃ ᕿᑾᓪᓂᐅᑦ ᐅᓪᓂᐅᑦ ᑭᑦᓪᖓᑕ ᐊᔪᕕᓇᓱᖓᑎᐸᑦᑦ. ᐊᑕᑯᓄᑦᓂᓂᐊᕐᒉᔪᑦᑕᐅᓄᖅ ᒥᑭᔪᓄᑦᓴᑎᓪᓗᐊᓂᓂᒃ, ᐅᑎᐅᑎᑌᓴᓄᑕᑎᓂᒃ ᓴᓂᑭᓗᐊᕋᓄᖅᑐᔪᓂ ᐊᑕᑕᕆᓚᐊᓄᖅᑐᑎᓂᓂ ᓄᓇᓕᐅᑦ ᐊᑕᑕᕕᖓᓂᒃ.

ᖃᐅᔨᓴᓂᒃ ᐅᓂᒃᑲᓄᖅᑐᔪᓂ ᐊᑕᐅᓴᐅᓕᒥᒃ, ᐊᖓᑎᑎᓂᓕᓕᒥᒃ ᖃᐅᔨᓴᖏᓴᓂᒃ 0.05 m3/ᐅᑦᑕᓗᒥ. ᐊᑐᖏᑕᒥᓴᓄᖅᑐᔪᓂ ᐊᖓᑎᑎᓂᓂᓕᵒᓂᒃ ᖃᐅᔨᓴᖏᓴᓂᒃ 2 ċᑕᓂᒃ ᕿᑯᕕᒃᓯᒪᓯᑦ ᐊᑕᐅᓱᕐᒥ ᐅᑦᑕᓗᒥ ᐊᒻᒪ 0.05 m3/ᐅᑦᑕᓗᒋᑦ ᐃᕐᑭᓄᖅᓱᔾᔨᑎᒥᓂᕐᒥᒃ ᐃᒥᕐᒃ. ᕿᑯᕕᒃᓯᒪᓯᑦ ᐊᒻᒪ ᐃᕐᑭᓄᖅᓱᔾᔨᑎᒥᓂᕐᒥᒃ ᐃᒥᕐᓄ ᐊᑕᕐᓄᑕᐅᕐᖏᑦᑕᓂᐊᕋᓂᒃ ᐃᓱᓄᒃᓄᓇᓂᑦ ᐃᓂᖅᑲᓇᓂᑦ > 150 ᒫᑕᓂᒃ ᕿᑯᓪᓂᐅᑦ ᐅᓪᓂᐅᑦ ᑭᑦᓪᖓᑕ ᐊᔪᕕᓇᓱᖓᑎᐸᑦᑦ. ᐊᑕᑯᓄᑦᓂᓂᐊᕐᒉᔪᑦᑕᐅᓄᖅ ᒥᑭᔪᓄᑦᓴᑎᓪᓗᐊᓂᓂᒃ, ᐅᑎᐅᑎᑌᓴᓄᑕᑎᓂᒃ ᓴᓂᑭᓗᐊᕋᓄᖅᑐᔪᓂ ᐊᑕᑕᕕᖓᓂᒃ ᓄᓇᓕᐅᑦ ᐊᑕᑕᕕᖓᓂᒃ.

ᖃᐅᔨᓴᓂᒃ ᐊᑐᕋᓄᖅᑐᔪᓂ ᐃᓄᐃᑦ ᐃᓕᐅᕐᓂ ᐃᓕᐅᕐᓂ ᒫᓐᓇᐅᔪᓂ (5 ᐅᕐᓂᓕᓄᑦᓂᕐᓂ ᑐᖏᓂᓂ), ᖃᑭᒪᒥᐅᓂᓚᓄᖅᑕᑦᑕ (1-3 ᐱᓇᓯᐊᕈᓯᑦ), ᐊᒻᒪ ᒥᑭᓂᖏᓂᓂ ᐃᒥᐅᑦ ᐊᑐᕋᓄᖅᑕᑦᑕ, ᓯᓕᑕᓂᖅᑐᑦ ᓇᓚᖏᑦᑕᐅᑯᓂᐊᕐᒉᔪᑦᑕᐅᓄᖅ ᑭᓇᐃᐃᓄᑦᓴᑎᓪᓗᐊᓂᓂᒃ ᐊᑐᓯᓂᖅᑐᑦ ᐃᓂᖅᑲᓇᓂᑦ ᐊᑐᕋᓄᖅᑕᑦᑕ