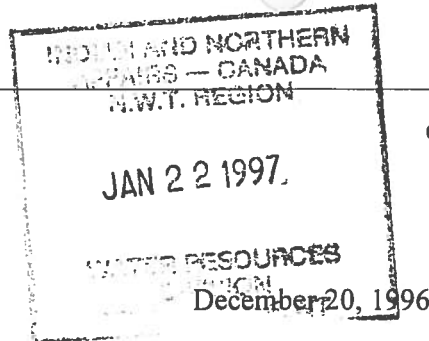


# Nunavut Water Board



P.O. Box 119  
Gjoa Haven, NT. X0E 1J0  
(403)360-6338  
Fax: (403)360-6369

Mr. Jason Attew  
Environmental Resources  
Canamera Geological Ltd.  
Suite 540-220 Cambie Street  
Vancouver, B.C.  
V6B 2M9

Shannon,

As requested  
also Dec 20, changed  
to reflect typo

Subject: Jericho Diamond Project  
Amendment to Water Licence No. N7L2-1666

Thanks  
Dione

Dear Mr. Attew,

The Nunavut Water Board has reviewed your application for an amendment to Lytton Minerals' water licence no. N7L2-1666 regarding the disposal of sewage and grey waters for camp operations. In accordance with its current licensing process, the Nunavut Water Board has formally approved the said amendment. A copy of this amendment is appended to this letter.

However, I must inform you that the issuance of this water licence and associated amendment does not release Lytton Minerals from the obligation to obtain further approval, authorization or sanction from other federal, territorial or local authorities and licensing agencies.

I trust this will be to your satisfaction.

Sincerely,

Philippe di Pizzo  
Executive Director

cc. Mr. Larry Aknavigak, Chairperson, NIRB  
Mr. David Livingstone, INAC

## Nunavut Water Board

Pursuant to the Nunavut Land Claims Agreement (Article 13) the Nunavut Water Board, hereinafter referred to as the Board, hereby grants to

**Lytton Minerals Limited**  
(Licensee)

**501-700 West Pender Street**  
**Vancouver, British Columbia V6C 1G8**  
of \_\_\_\_\_  
(Mailing Address)

Hereinafter called the Licensee, The right to alter, divert or otherwise use water for a temporary extended period subject to restrictions and conditions contained within this licence:

Licence Number **N7L2-1666"Amendment"**

Water Management Area **Northwest Territories 07**

Location **Jericho Diamond Project in the Carat Lake Area, Latitude 65°59'50" N. Longitude 111°28'30" W. Northwest Territories**

Purpose **Camp Operation Greywaters**

Description **Disposal of Sewage and Greywater for Camp Operations**

Effective Date of Licence **May 1, 1996**

Expiry Date of Licence **April 30, 1998**

This Licence issued and recorded at Gjoa Haven includes and is subject to the annexed conditions.  
Nunavut Water Board, Approved by,

  
Witness

  
Chairman

## General Conditions

### Part A

#### 1. Scope

This amendment to licence N7L2-1666 issued by the Northwest Territories Water Board allows for the use of water and the disposal of sewage/greywater at Lytton Minerals Limited's Jericho Diamond Project, Northwest Territories.

#### 2. Definition

In this Amendment:

"Greywater" means all waters used for washing and cleaning purposes;

"Sewage" means all toilet wastes;

"Sewage Disposal Facilities" comprises the area and engineered structures designed to contain sewage and greywater as per Appendix I in the Application to amend this licence submitted to the Nunavut Water Board by Cananmera Geological Limited.

## Conditions Applying to Water Use

### Part B

1. The licensee shall obtain water from Carat Lake.
2. The quantity of water withdrawn from Carat Lake for camp operations shall not exceed 25 cubic metres/day.
3. Greywater produced from camp operations shall be treated by the JTI Water Treatment Filter Press as noted in Appendix I of the application to amend this licence.
4. Sludge produced from the JTI Water Treatment Filter Press will be removed and incinerated on site in a designated pit located 100 m from the nearest surface water body as per the application to amend this licence.
5. Treated effluent will be discharged to the Retention Pond as per Figure 1 of the application to amend this licence prior to discharging it into Carat Lake.
6. All effluent discharged at Station 1666-6 of the "Surveillance Network Program" by the licensee shall not exceed the following effluent quality standards:

PARAMETER	MAXIMUM AVERAGE CONCENTRATION
Fecal Coliform	1000 CFU/100ml
Oil and Grease	5.0 mg/l
Total Suspended Solids	35.0 mg/l
BOD <sub>5</sub>	30.0 mg/l

The effluent shall have a pH between than 6.0 and 9.5.

The licensee shall operate the JTI Greywater Treatment Filter Press Facility such that:

- a. The volume of effluent discharged is measured and recorded daily during periods of flow;
- b. Records are to be kept for review upon request of the inspector.

8. The licensee shall operate and maintain the JTI Greywater Treatment Filter Press Facility such that:

- a. The volume of effluent discharged is measured and recorded daily during periods of flow.
- b. Inspections of the retention pond are carried out on a weekly basis.
- c. At least one (1) metre freeboard is maintained at the retention pond berm at all times.

9. The licensee shall adhere to the "Surveillance Network Program" annexed to this Licence.

10. The licensee shall file an annual report with the Board not later than March 31<sup>st</sup> of the year following the calendar year reported which shall contain the following:

- a. The monthly and annual quantities in cubic metres of water extracted from Carat Lake;
- b. The monthly and annual quantities in cubic metres of water discharged from the JTI Water Treatment Filter Press.
- c. Any other details on water use requested by the Board by November 1<sup>st</sup> of the year being reported.

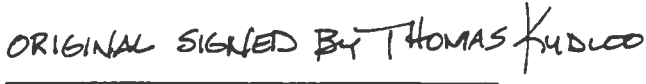
### Conditions Applying to Sewage Disposal

#### Part C

1. The Licensee shall put in use "Biolets" as the primary method of sewage disposal as stated in the application to amend this licence.
2. The "Biolets" solids will be emptied three (3) times weekly and removed to be incinerated at the designated pit as per Part B, Item 4.

**Nunavut Water Board**

  
Witness

ORIGINAL SIGNED BY THOMAS KUDLOO  
  
Chairman

# Nunavut Water Board

**Licensee:** Lytton Minerals Limited

**Licence Number:** N7L2-1666

**Effective Date of  
Licence Amendment:**

**Effective Date of  
Surveillance Network Program**

## Surveillance Network Program

### A. Location of Sampling Stations

In addition to the stations in the amendment, the following stations are to be sampled:

<u>Station Number</u>	<u>Description</u>
1666-5	Discharge from Greywater Treatment Facility.
1666-6	Outflow from Greywater Retention Pond.
1666-7	Outlet to Carat Lake.

### B. Sampling and Analysis Requirements

1. Effluent at Station Number 1666-5 shall be sampled monthly and analysed for the following parameters:

Total Suspended Solids  
BOD<sub>5</sub>  
pH

Oil/Grease  
Fecal Coliform

2. During periods of effluent flow, Station Numbers 1666-6 and 1666-7 shall be sampled monthly and analysed for the following parameters:

Total Suspended Solids  
BOD<sub>5</sub>  
pH

Oil/Grease  
Fecal Coliform

3. All sampling, sample preservation, and analyses shall be conducted in accordance with methods prescribed in the current edition of "Standard Methods for the Examination of Water and Wastewater", or by such other methods approved by the Analyst.
4. All analysis shall be preformed in a laboratory approved by an Analyst.
5. Within thirty (30) days of issuance of this Amendment, the Licencee shall submit to an Analyst for approval a quality assurance/quality control plan which addresses of field blanks and certified reference material, and replicate sampling in order to assess accuracy, precision and field contamination.
6. The plan referred to in Part B, Item 5 shall be implemented as approved by an Analyst.

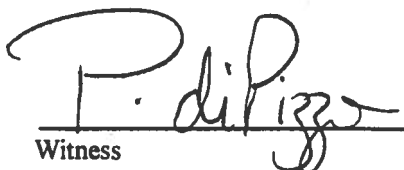
**C. Flow and Volume Measurements Requirements**

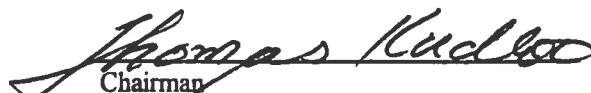
1. The daily, monthly, and annual quantities of effluent discharged from the JTI greywater treatment facility 1666-5 shall be measured and recorded in cubic metres.
2. The monthly extraction from Carat Lake shall be measured and recorded in cubic metres.

**D. Reports**

1. The Licencee shall, within thirty (30) days following the 12<sup>th</sup> month being reported, submit to the Board all data and information required by the "Surveillance Network Program" including the results of the approved quality assurance plan.

Nunavut Water Board

  
Witness

  
Chairman