



FWD: Notice: Intention to discharge Eureka Sewage Lagoon

Cloutier-Dussault, Jean-Philippe (ECCC) <Jean-Philippe.Cloutier-Dussault@ec.gc.ca>

Thu, Sep 9, 2021 at 10:31 AM

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

Ref. Nunavut Water Board License #8BC-EUR2131

Ref. CIRNAC Land Use Permit #N2017-N0017

Good day Inspector Monteith,

ECCC hereby notifies CIRNAC of its intention to discharge the Eureka Sewage Lagoon starting today September 9, 2021. A spill report will be produced as soon as possible.

Given the attached laboratory samples results and the fact that temperatures have decreased below freezing lately, our team has no other option than to discharge the lagoon. Our team has explored all short-term solutions extensively, including temporary berms, a packaged processing plant or construction of a secondary lagoon. Unfortunately, no option is viable given the timing, resources available and weather constraints.

ECCC plans to evaluate options (such as temporary mobile on-site processing, mechanical aeration, or lagoon expansion) and implement a preferred solution in time for Spring 2022, until the new sewer and water project is complete around Summer 2024.

Please acknowledge reception of this message. Also feel free to contact me should you require further information.

Regards

Jean-Philippe Cloutier-Dussault

Gestionnaire immobilier, Directions des actifs, des biens immobiliers et de la sécurité

Environnement et Changement climatique Canada / Gouvernement du Canada
jean-philippe.cloutier-dussault@ec.gc.ca / Tél. : 514-641-8753

Property Manager, Assets, Real Property and Security Directorate

Environment and Climate Change Canada / Government of Canada
jean-philippe.cloutier-dussault@ec.gc.ca / Tel. : 514-641-8753



Government
of Canada

Gouvernement
du Canada

Canada



FWD: Notice: Intention to discharge Eureka Sewage Lagoon

Cloutier-Dussault, Jean-Philippe (ECCC) <Jean-Philippe.Cloutier-Dussault@ec.gc.ca>

Thu, Sep 9, 2021 at 12:27 PM

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

Sure. Here they are. This is the preliminary report that we have at this time. However, only the results for metals are still pending. All other results are available.

Best regards,

Jean-Philippe Cloutier-Dussault

Gestionnaire immobilier, Directions des actifs, des biens immobiliers et de la sécurité

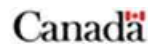
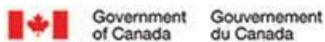
Environnement et Changement climatique Canada / Gouvernement du Canada

jean-philippe.cloutier-dussault@ec.gc.ca / Tél. : 514-641-8753

Property Manager, Assets, Real Property and Security Directorate

Environment and Climate Change Canada / Government of Canada

jean-philippe.cloutier-dussault@ec.gc.ca / Tel. : 514-641-8753



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

Envoyé : 9 septembre 2021 13:04

À : Cloutier-Dussault, Jean-Philippe (ECCC) <Jean-Philippe.Cloutier-Dussault@ec.gc.ca>

Objet : Re: Notice: Intention to discharge Eureka Sewage Lagoon

Thanks, will you be forwarding the samples mentioned in the e-mail as well for the record?

Regards,

Richare

[Quoted text hidden]

[Quoted text hidden]





Taiga Environmental Laboratory
4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9
Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:
211546

- PRELIMINARY REPORT -

Prepared For: Environment Canada

Address: 123 Main Street
Suite 150
Winnipeg, MB
R3C 4W2

Attn: Andrew Creighton

Facsimile:

Final report has been reviewed and approved by:

Judy Mah
Client Service Officer

NOTES:

- Test methods and data are validated by the laboratory's Quality Assurance Program. Taiga Environmental Laboratory is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) to ISO/IEC 17025 as a testing laboratory for specific tests registered with CALA.
- Routine methods are based on recognized procedures from sources such as
 - Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
 - Environment Canada
 - USEPA
- Samples shall be kept for thirty (30) days after the final report is issued. All microbiological samples shall be disposed of immediately upon completion of analysis to minimize biohazardous risks to laboratory personnel. Please contact the laboratory if you have any special requirements.
- Final results are based on the specific tests at the time of analysis and do not represent the conditions during sampling.

ReportDate:

Print Date: *Friday, September 3, 2021*

Page 1 of 5



Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:
211546

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **EUR-3**

Taiga Sample ID: **001**

Client Project: Sewage Lagoon Sampling

Sample Type: Water

Received Date: 21-Aug-21

Sampling Date: 20-Aug-21

Sampling Time: 18:35

Location:

Report Status: Preliminary

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	72.7	0.005	mg/L	27-Aug-21	TEL068	
Biochemical Oxygen Demand	346	2	mg/L	21-Aug-21	TEL019	
Phosphorous, Total	11.3	0.002	mg/L	25-Aug-21	TEL069	
<u>Inorganics - Physicals</u>						
Conductivity, Specific (@25C)	5580	0.4	µS/cm	23-Aug-21	TEL059	
pH	7.27		pH units	23-Aug-21	TEL058	
Solids, Total Suspended	56	3	mg/L	23-Aug-21	TEL008	
<u>Major Ions</u>						
Nitrate+Nitrite as Nitrogen	< 0.11	0.11	mg/L	24-Aug-21	TEL055	
Sulphate	258	11	mg/L	24-Aug-21	TEL055	
<u>Microbiology</u>						
Coliforms, Fecal	4000000	1000000	CFU/100mL	21-Aug-21	TEL017	
Coliforms, Total	40400000	1000000	MPN/100mL	21-Aug-21	TEL053	
<u>Organics</u>						
Oil and Grease, visible					Visual Exam	

ReportDate:

Page 2 of 5

Print Date: Friday, September 3, 2021



Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:

211546

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **EUR-3**

Taiga Sample ID: **001**

Subcontracted Inorganics

Calcium	115	0.05	mg/L	30-Aug-21	EPA200.2
Magnesium	80.8	0.005	mg/L	30-Aug-21	EPA200.2
Potassium	33.7	0.05	mg/L	30-Aug-21	EPA200.2
Sodium	838	0.05	mg/L	30-Aug-21	EPA200.2

Subcontracted Nutrients

Kjeldahl Nitrogen, Total	83.4	1.00	mg/L	31-Aug-21	APHA4500-NORG (T	224
--------------------------	------	------	------	-----------	------------------	-----

Subcontracted Organics

Phenols, Total	0.0183	0.001	mg/L	30-Aug-21	AB ENV.06537
----------------	--------	-------	------	-----------	--------------

Trace Metals, Total

Aluminum	5	µg/L	TEL035
Antimony	0.1	µg/L	TEL035
Arsenic	0.2	µg/L	TEL035
Barium	0.1	µg/L	TEL035
Beryllium	0.1	µg/L	TEL035
Cadmium	0.04	µg/L	TEL035
Cesium	0.1	µg/L	TEL035
Chromium	0.1	µg/L	TEL035
Cobalt	0.1	µg/L	TEL035
Copper	0.2	µg/L	TEL035
Iron	5	µg/L	TEL035
Lead	0.1	µg/L	TEL035
Lithium	0.2	µg/L	TEL035
Manganese	0.1	µg/L	TEL035
Molybdenum	0.1	µg/L	TEL035

ReportDate:

Page 3 of 5

Print Date: *Friday, September 3, 2021*



Taiga Environmental Laboratory
4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9
Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:
211546

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **EUR-3**

Taiga Sample ID: **001**

Nickel	0.1	µg/L	TEL035
Rubidium	0.1	µg/L	TEL035
Selenium	0.5	µg/L	TEL035
Silver	0.1	µg/L	TEL035
Strontium	0.1	µg/L	TEL035
Thallium	0.1	µg/L	TEL035
Titanium	0.1	µg/L	TEL035
Uranium	0.1	µg/L	TEL035
Vanadium	0.1	µg/L	TEL035
Zinc	5	µg/L	TEL035

ReportDate:

Page 4 of 5

Print Date: *Friday, September 3, 2021*



Taiga Environmental Laboratory
4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9
Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:
211546

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **EUR-3**

Taiga Sample ID: **001**

- DATA QUALIFIERS -

Data Qualifier Descriptions:

224 *Detection Limit Raised: Dilution required due to high concentration of test analyte(s).*

*** Taiga analytical methods are based on the following standard analytical methods**

SM - Standard Methods for the Examination of Water and Wastewater

EPA - United States Environmental Protection Agency

ReportDate:

Page 5 of 5

Print Date: *Friday, September 3, 2021*