

Department of Community Government Services Ministère des Services communautaires et gouvernementaux

December 07, 2009

Richard Dwyer, Licensing Administrator Nunavut Water Board P.O. Box 119, Gjoa Haven, NU X0B 1J0

Phone: (867) 360-6338, Ext. 26

Fax: (867) 360-6369

E-mail: licensing@nunavutwaterboard.org

Sub: Renewal Water License Application of the Municipality of Clyde River # 3BM-CLY0909

Dear Mr. Dwyer,

I am writing in response to the letter of Mr. David Hohnstein, CET, Director Technical Services, NWB, dated November 27, 2009 regarding renewal of the water License of the Municipality of Clyde River.

I like to confirm that this is a renewal water license application. The Amendment application will be submitted once the design of the proposed Solidwaste Facility is completed. Currently a consultant is on board and working on the design.

The attached O&M manual is the only existing manual available in the community. This document has not updated since it was developed.

The detailed responses is attached for further clarification to satisfy the requirements of the attached letter of the NWB.

We trust that this will satisfy the requirements to renew the Water license for the Municipality of Clyde River for the period of five years. I will appreciate if you keep me in loop of the approval process.

Please do not hesitate to contact me if you have any more question.

Thanks.

Bhabesh Roy, M.A.Sc., P.Eng.
Municipal Planning Engineer
Community & Government Services
Baffin Region, Government of Nunavut
P.O.Box 379, Pond Inlet, X0A 0S0
Ph-867 899 7314

Fax-867 899 7328 E-mail: <u>broy@gov.nu.ca</u>

Copy to: Patricio Fuentes, Regional Projects Manager, GN-CGS, Baffin Region Johnathan Palluq, Assistant Regional Director, GN-CGS, Baffin Region Timoon Toonoo, Regional Director, GN-CGS, Baffin Region Richard Carbonnier, Project Officer, GN-CGS, Baffin Region Steven Burden, P.Eng., Trow Associates Inc. Bill Buckle, SAO, Hamlet of Clyde River

Responses to the questions of the Letter of NWB on Clyde River Water License dated November 27, 2009.

1. Item B, 1 - Submission of all available data generated under NWB3CLY0308 and subsequent amendment "Monitoring Program" was due April 18, 2009.

Ans: Attached Lab test result for 2009 in Appendix-A

2. Item E,4 - As-built plans and drawings of the existing Sewage Disposal Facility;

Ans: Not available. This existing facility is being rehabilitated in the next summer and as built drawings will be developed afterwards along with the O&M manual.

3. Item F, 1 – Operation and Maintenance Manual for existing facilities including the water supply facility, sewage and solid waste facilities, hazardous waste management, sludge management, spill contingency plan, and monitoring program quality assurance/quality control plan, was due May 18, 2009. A draft O&M Manual for the Wastewater Treatment Facility was submitted as part of the renewal application. This O&M Manual does not address the Solid Waste Facility; Hazardous Waste Management; or the Water Supply Facility. The draft O&M Manual requires finalization and Board approval.

Ans: The Individual facility should have its own manual.

Waste Management facility: The existing waste management facility has no as built drawings and O&M manual. This facility is under design stage. Once the design is approved by NWB, the facility will be constructed. The final O&M manual will be developed along with the as built drawings. The existing facility will be decommissioned afterwards once the new facility is commissioned.

Sewage treatment facility-Sewage Lagoon: This facility is under construction. Once completed, a complete O&M manual will be developed along with the as built drawings.

Water supply facility: The O&M manual is existing and submitted to NWB before construction long time back. However, attached in **Appendix-B**.

4. Item F, 6 – Revised final Spill Response Plan for Aggregate Deposits was due prior to construction or procurement of construction materials from the quarry;

Ans: A Final copy of the Spill Contingency Plan will be issued by the end of January 2010.

5. Item F, 8 – Geotechnical Inspection Report was due October 31, 2009;

Ans. The new facility is under construction and has a common berms with the existing facility as shown in the map attached in **Appendix-C.** Geotechnical investigation was done recently during design phase. Additional geotechnical inspection is not required.

6. Item H, 3 – Water quality monitoring results at Monitoring Program Station CLY-4 (Effluent discharge from the existing Sewage Disposal Facility) to be included in the annual report;

Ans: Attached in Appendix D

7. Item H, 5 – Measured monthly and annual quantities of effluent discharged to be included in annual report;

Ans. Effluent is being discharged from the sewage lagoon once in a year, sometime in September for two to three weeks only. This quantity is estimated to the same as the total quantity of water consumption of the community and will be submitted in January 2010.

8. Item H, 6 – The annual quantities of sludge removed from the Sewage Disposal Facility along with the methods of treatment, storage and disposal provided to be included in annual report;

Ans. Sludge remains at the bottom of the Lagoon. No further treatment takes place.

 Item H, 7 – Water quality monitoring results at Monitoring Program Station CLY-2 (runoff from the solid waste disposal facilities) and CLY-13 (runoff from the quarry site) to be included in annual report;

Ans. Not done because this process was not established in the old facility considering new facility will built and commissioned soon. This will be followed in the new facility once it is built.

10. Item H, 8 – Sludge analysis results to be included in annual report; and

Ans. No sludge quality analysis was done. This is not a practice in Nunavut.

11. Item H, - Quality Assurance/ Quality Control Plan approved by an analyst.

Ans. For drinking water, QA/QC plan has developed by GN-DOH. For wastewater, followed an accredited lab in Ottawa. The contact address is as follows:

Caduceon Environmental Laboratories 2378 Holly Lane, Ottawa, ON, Canada K1V7P1 Tel: (613) 526-0123 Fax: (613) 526-1244

Website: www.caduceonlabs.com

12. The Plan for Compliance is expected to provide clear linkages demonstrating how the proposed actions of the Plan will address specific Licence requirements and issues identified by the Inspector in inspection reports. These linkages are not provided in the current Plan, which is comprised of a number of appendices containing disconnected information and standard forms/guidelines. The Plan must also provide adequate detail and firm schedules for implementing proposed actions.

Ans:

Sewage Lagoon:

- 1. Construction will be completed in 2010.
- 2. O&M manual along with the as built drawings will be ready in 2010

Waste management facility:

- 1. Design will be ready in 2010
- 2. Construction will take place in 2011
- 3. Decommissioning of the existing facility will be done in 2011
- 4. O&M manual along with as built drawings will be ready in 2011
- 13. It is also noted that the Renewal Application contemplates a new Solid Waste Disposal Facility. The Licensee is advised that such a proposal requires a combined renewal/amendment to the existing License.

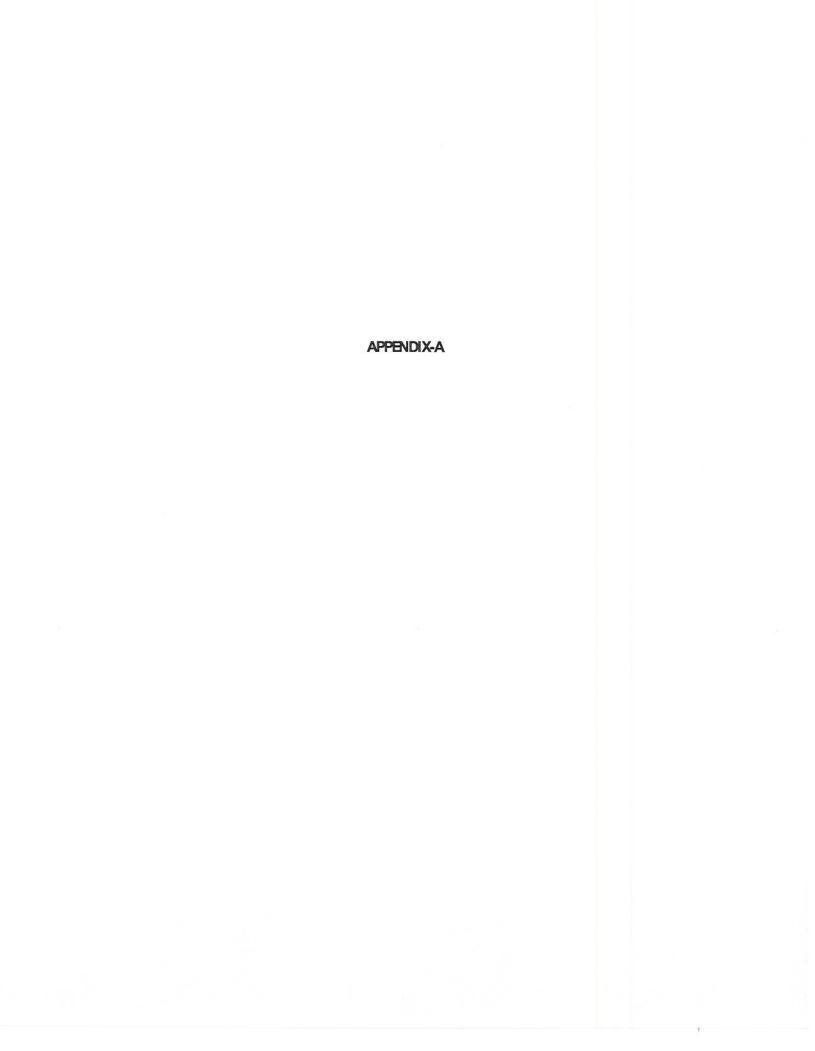
Ans: This is a renewal application. The Proposed new license will be amended with the submission of the design of the new solid waste management facility.

14. To apply for a Licence amendment, the Licensee must provide written confirmation from the NPC and NIRB confirming whether or not the amendment requires an NPC conformity determination and NIRB screening decision. This is required by the NWB prior to processing an amendment application.

Ans. This is not an Amendment application. Therefore no NPC or NIRB confirmation is required.

15. In addition, the electronic information provided in Appendix E of the Plan for Compliance regarding the proposed Solid Waste Disposal Facility includes a number of figures which have not reproduced legibly in the scanned document. Scanned documents are the least desirable form of submission. Converted pdf

Ans: These pictures are not clear in the original document. However, the new consultant will submit detailed design and drawings of the proposed new facility.





Client committed. Quality assured.

CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: 18107

REPORT No. B09-07174

Report To:

Hamlet of Clyde River

Box 89

Clyde River, Nunavut, X0A 0E0 Attention: David Arreak

DATE RECEIVED: 16-Mar-09

DATE REPORTED: 24-Mar-09

SAMPLE MATRIX: Water

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa, Ontario, K1V 7P1

Tel: 613-526-0123

Fax: 613-526-1244

JOB/PROJECT NO.: Lagoon Sample

P.O. NUMBER:

WATERWORKS NO.

	Parameter: Units: M.D.L.: Reference Method: Date/Site Analyzed:		mg/L 3 SM 5210 19-Mar-09/O	Total Suspended Solids mg/L 3 SM 2540 17-Mar-09/O		
Client I.D.	Sample I.D.	Date Collected			1000	
Lagoon	B09-07174-1	11-Mar-09	442	56		
Flow End	B09-07174-2	11-Mar-09	424	78		-
Ground	B09-07174-3	11-Mar-09	441	62		

M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston, W-Windsor, O-Ottawa, P-Peterborough, M-Moncton

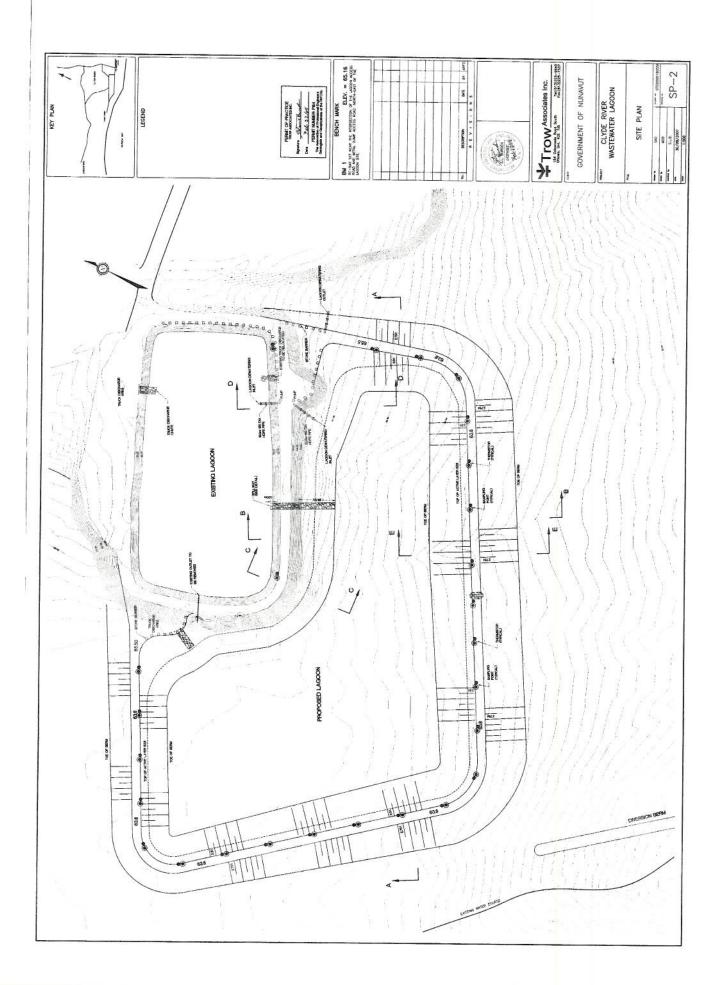
Krystyna Pipin, M. Sc.

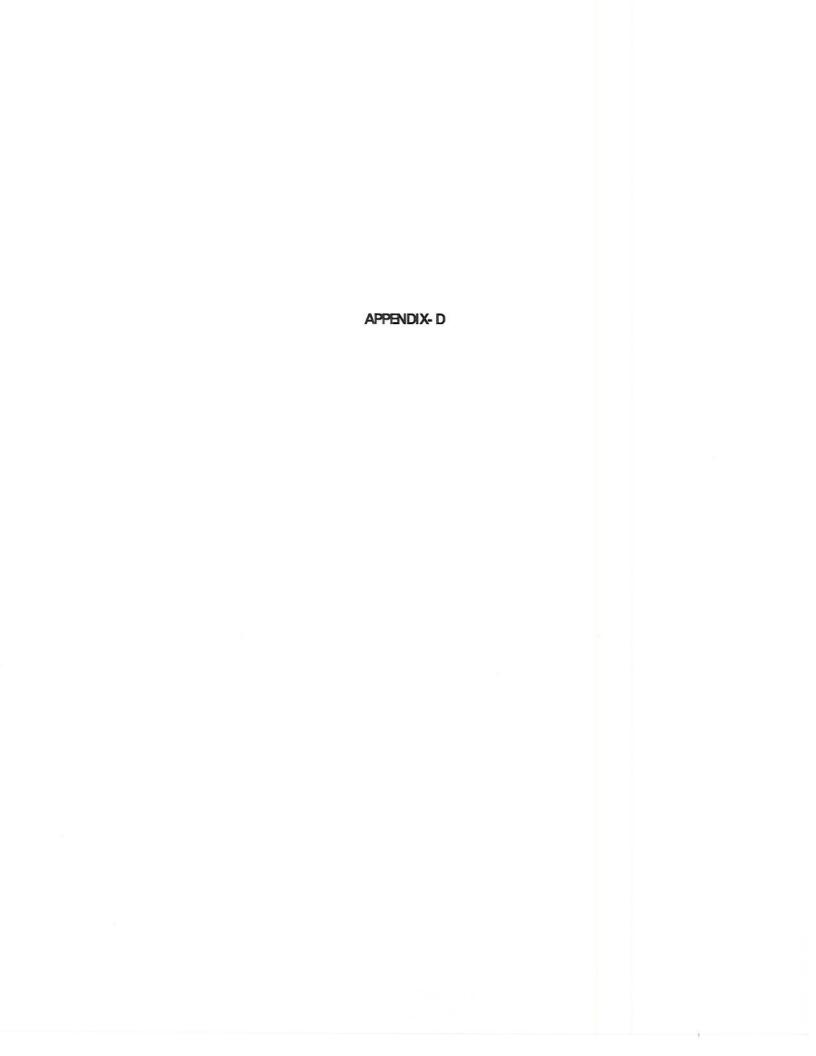
Lab Supervisor

APPENDIX- B

(Hard Copy mailed)

APPENDIX- C





Roy, Bhabesh

From:

Klassen, Ken

Sent:

Monday, April 06, 2009 10:31 AM

To:

Bill Buckle

Subject:

Water Sample Results 4 April 2009

Water sample results that were received and plated on the 3 April 2009 from the Hamlet of Clyde River:

Location	Total Coliforms	E.Coli	
Pump House	0	0	
Nursing Station	0	0	
Water Truck #1	0	0	
Water Truck #2	0	0	

The most recent sample results indicate no signs of bacterial contamination.

Sincerely,

Ken Klassen CD CPHI(C) Environmental Health Officer Baffin Public Health Department Government of Nunavut - Iqaluit NU X0A 0H0 voice (867) 975-4812

fax (867) 975-4833 email: <u>kklassen@gov.nu.ca</u>