

NUNAVUT WATER BOARD

Type "A" Water Licence Renewal Application 3AM-GRA1015

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HEARING

VOLUME 1

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Rankin Inlet, Nunavut

March 16, 2016

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1 Proceedings taken at Rankin Inlet, Nunavut

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3 March 16, 2016

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5 NUNAVUT WATER BOARD

6 T. Kabloona Chair of Hearing

7 D. Aglukarq, Sr. Panel Member

8 R. Mrazek Panel Member

9

10 NUNAVUT WATER BOARD STAFF

11 D. Hohnstein Director Technical Services

12 K. Kharatyan Senior Technical Advisor/

13 Acting Manager of Licensing

14 I. Porter Licensing Administrator

15 B. Kogvik Secretary and Interpreter to  
16 the Board

17 C. Kieu Legal Counsel

18

19 INTERVENORS

20

21 M. Lustey Government of Nunavut,

22 Community and Government

23 Services

24

25 S. Burgess Indigenous and Northern

26 Affairs Canada

1 I. Parsons Indigenous and Northern  
2 Affairs Canada  
3 K. Landa Department of Justice  
4 (Via Teleconference)  
5  
6 B. Summerfield Environment and Climate Change  
7 Canada  
8 A. Wilson Environment and Climate Change  
9 Canada  
10  
11 INTERPRETERS/TRANSLATORS  
12 M. Angoshadlok Inuktitut Language Translator  
13 J. Ayaruaq Inuktitut Language Translator  
14  
15 C. Longacre, RPR, CSR(A) Official Court Reporter  
16  
17 R. Dempster Sound Technician

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1 (PROCEEDINGS COMMENCED AT 9:25 AM)

2 THE CHAIR: Good morning. Can you hear me  
3 okay? If not, just raise your hand.

4 It's 9:25 already, so we'll proceed now. Good  
5 morning and welcome to the public hearing for Type "A"  
6 Water Licence renewal application submitted by the  
7 Government of Nunavut, Community and Government  
8 Services seeking a renewal of Hamlet of Rankin Inlet  
9 municipal water licence.

10 My name is Thomas Kabloona, and I'm the Chair of  
11 the Nunavut Water Board and Chair for today's public  
12 hearing.

13 Before we proceed, let us begin with opening  
14 prayer. I'm going to ask David Aglukarq to do the  
15 opening prayer, please.

16 Opening Prayer

17 THE CHAIR: Thank you. On behalf of the  
18 Nunavut Water Board, I welcome you to the community of  
19 Rankin Inlet.

20 Opening Remarks by the Chair

21 THE CHAIR:

22 Please note that there is interpretation available  
23 throughout the hearing, and earpieces are available  
24 from the table at the back of ...

25 Channel 2 is English, and Channel 4 is Inuktitut.  
26 I also want to remind everyone to sign in on the

1 sheet -- sign-in sheet located at the table just as you  
2 come in. You signing in is part of the record for this  
3 hearing; in other words, the Board's Decision Report  
4 will include the sign-in sheet. That's why the Board  
5 and I appreciate your help in making sure it is  
6 complete.

7 The washrooms are located just as you -- outside  
8 the hall. The exit is located just where you come in,  
9 and there will be coffee, tea, and snacks located at  
10 the tables in front of the hall. During breaks, please  
11 help yourself to the food at the back.

12 There are agendas for the hearing available at the  
13 table as you come in if you want to follow along.

14 Now, to provide some background and set the stage  
15 for the hearing, the Nunavut Water Board, which I'll  
16 refer to as "the Board" or "NWB", is an institution of  
17 public government created under Article 13 of the  
18 Nunavut Land Claims Agreement. The NWB is responsible  
19 for the use, management, and regulation of freshwater  
20 in the Nunavut settlement area.

21 The purpose of this public hearing is to review an  
22 application filed by Government of Nunavut, Community  
23 and Government Services, whom I shall refer to as  
24 "GN-CGS" or "licencee", for a Type "A" Water Licence  
25 renewal in accordance with the Nunavut Waters and  
26 Nunavut Surface Rights Tribunal Act.

1           Pursuant to Section 13.3.6 of the Nunavut Land  
2   Claims Agreement and Section 29 of the Nunavut Waters  
3   and Nunavut Surface Rights Tribunal Act, the Board has  
4   delegated its power to dispose of all matters related  
5   to the processing of the renewal application for the  
6   Type "A" Water Licence Number 3AM-GRA1015, including  
7   the conduct of this public hearing, to a Panel of the  
8   Board, which is referred to as "P10 Rankin Inlet  
9   Panel".

10           I will be chairing this Panel, and with me today  
11   as members of the Panel are board members Ross Mrazek  
12   to my right, and to my left is David Aglukarq Sr.

13           Several staff members, who have contributed to the  
14   NWB's administration and technical review of the  
15   application, are present along with legal counsel to  
16   the NWB. I will introduce the individuals in  
17   attendance: David Hohnstein, Director of Technical  
18   Services; Karen Kharatyan, Senior Technical Advisor/  
19   Acting Manager of Licencing; Ida Porter, Licencing  
20   Administrator; Ben Kogvik, Secretary and Interpreter to  
21   the Board; and Cindy Kieu, with Shores Jardine LLP,  
22   legal counsel to the NWB.

23           In addition, we have two interpreters available  
24   for simultaneous translation: Mary Rose and John  
25   Ayaruaq from Rankin Inlet.

26           For audio support, we have with us Ryan Dempster



1 from Pido Productions Limited. If you experience any  
2 difficulties with your headsets, he would be able to  
3 provide assistance.

4 To ensure an accurate record of the proceeding is  
5 kept, we have with us a court reporter, Christy  
6 Longacre, from Dicta Court Reporting Incorporated. To  
7 assist Christy, I'd ask that all parties please state  
8 their name prior to speaking.

9 In the past, parties in other proceedings have  
10 approached the media prior to the release of the  
11 Board's decision suggesting comments about what the  
12 Board is going to do either procedurally or in terms of  
13 final result. Since the Board cannot comment on  
14 pending matters either by confirming or denying  
15 accuracy of statements by others to the media, the  
16 Board would appreciate if all parties refrain from any  
17 such comments that may imply a certain action or  
18 decision by the Board. Board members will not discuss  
19 the hearing or the matters before the Board with any of  
20 the parties or the media. If you have any questions  
21 regarding the Board and its practices or procedures,  
22 please speak with the Director of Technical Services.

23 Prior to identifying and introducing all the  
24 parties in attendance today, I will provide a brief  
25 summary of the application that is before the Board.  
26 File history: Pre-licencing requirements. In terms of

1 pre-licencing requirements, the NWB in is receipt of  
2 the following documents: December 11th, 2013, Nunavut  
3 Planning Commission, NPC, determined that the project  
4 conforms to the Keewatin Regional Land Use Plan; May  
5 27th, 2015, Nunavut Impact Review Board, NIRB,  
6 determined that the application is exempt from NIRB  
7 screening and advised that NIRB's screening decision of  
8 June 26th, 2014, still applies.

9 Application before the Board. I'm going to move  
10 on to the application that is before the Board. As  
11 mentioned earlier, the application that is currently  
12 before the Board is for a renewal of a Type "A" Water  
13 Licence Number 3AM-GRA1015 requested by GN-CGS, for the  
14 Hamlet of Rankin Inlet.

15 Prior to identifying and introducing all of the  
16 parties in attendance today, I will provide a brief  
17 history of the existing licence and the application  
18 before the Board.

19 June 9, 2010, Type "A" Water Licence 3AM-GRA1015  
20 was issued by NWB to GN-CGS to water use [sic] and  
21 deposit of waste, sewage, through the operation of the  
22 water supply facilities, utilidor and sewage treatment  
23 facility at the Hamlet of Rankin Inlet. The expiry of  
24 the licence was set as May 31st, 2015. The licence  
25 allowed for the use of 850,000 cubic metres of water on  
26 an annual basis, and the source of water used for this

1 purpose is Nipissar Lake. The licence was approved by  
2 the Minister of Indigenous and Northern Affairs, INAC,  
3 or former AANDC as the Ministry was known then, on July  
4 28, 2010.

5 On December 23, 2014, the licence was amended to  
6 authorize the licensee to seasonally withdraw water up  
7 to 3,485 cubic metres per day from the Upper Char  
8 River to replenish the Nipissar Lake. This amendment,  
9 Amendment Number 1, was subsequently approved by the  
10 Minister of INAC on January 29, 2015.

11 On May 19, 2015, the Board issued a 180-day  
12 Short-Term Renewal Licence renewing the licence on the  
13 same terms and conditions as the existing licence with  
14 the new expiry being the earlier November 27th, 2015,  
15 or upon the grant of a renewed water licence; if the  
16 Board and Minister chose to grant the full-term renewal  
17 water licence. The Short-Term Renewal Licence  
18 3AM-GRA1015 was subsequently approved by the Minister  
19 of INAC on April 20, 2015.

20 The scope of the renewal requested in the  
21 application includes the following: Use of water from  
22 Nipissar Lake for a municipal undertaking; withdrawal  
23 and the use of water from Upper Char River for the  
24 replenishment of Nipissar Lake; operation of the water  
25 supply facilities, utilidor and sewage treatment  
26 facility; and discharge of treated effluent to Hudson

1 Bay.

2 GN-CGS was seeking initially a renewal of the  
3 licence for a 25-year term, which was subsequently  
4 upgraded to eight years' term as recommended by  
5 intervenors and accepted by GN-CGS. Other than the  
6 request for a longer term, no changes to the original  
7 scope of licence was requested.

8 The following documents were included as part of  
9 the application that the NWB received on March 9, 2015,  
10 for Type "A" Renewal Water Licence Number 3AM-GRA1015:  
11 Cover letter to the NWB; authorization letter;  
12 executive summary, English and Inuktitut; community  
13 information; water licence renewal application form;  
14 NPC conformity determination; email from Christopher  
15 Tickner, NPC, to Robin Ikkutisluk, dated -- NWB --  
16 December 11, 2013; letter from Brian Aglukark, NPC, to  
17 Phyllis Beaulieu, NWB, dated March 19, 2010; NIRB  
18 screening decision report, NIRB File Number 13UN37,  
19 June 26th, 2014; NIRB screening exemption; email from  
20 Ryan Barry, NIRB, to Phyllis Beaulieu, NWB, dated March  
21 16th, 2010; GN-CGS Rankin Inlet plan for compliance,  
22 March 9, 2015; addendum to operations and maintenance  
23 plan for the water supply facility, Char River, Rankin  
24 Inlet, Nunavut, prepared by Stantec, May 2014; spill  
25 contingency plan for water supply and treatment  
26 facilities, Rankin Inlet, Nunavut, prepared by Stantec,

1 2014; water supply facility operation and maintenance  
2 O&M plan, Hamlet of Rankin Inlet, Department of  
3 Community and Government Services, Department of --  
4 Government of Nunavut, prepared by Nuna Burnside,  
5 December 2008, revised April 2010; sewage treatment  
6 facility operation maintenance O&M plan, Hamlet of  
7 Rankin Inlet, Department of Community and Government  
8 Services, Government of Nunavut prepared by Nuna  
9 Burnside, December 8, 2008, revised April 2010;  
10 environmental monitoring program and quality  
11 assurance/quality control plan, Hamlet of Rankin Inlet,  
12 Department of Community and Government Services,  
13 Community Government, prepared by Nuna Burnside,  
14 December 2008, revised April 2010; and environmental  
15 emergency contingency plan, Hamlet of Rankin Inlet,  
16 Department of Community and Government Services,  
17 Government of Nunavut, prepared by Nuna Burnside,  
18 December 2008, revised April 2010.

19 It should be noted, in addition to the above  
20 mentioned submissions in support of the application,  
21 during technical review of the application, the NWB  
22 received the following documents from the applicant:  
23 Environmental monitoring program and quality  
24 assurance/quality control plan, updated September 2015;  
25 operation and maintenance, O&M, plan sewage treatment  
26 facility Hamlet of Rankin Inlet, Nunavut, updated

1 September 2015; water pumping adaptive management plan,  
2 Rankin Inlet, Nunavut, updated September 2015 and  
3 February 2016; Nipissar Lake and Lower Landing Lake  
4 water balance assessment prepared by Golder Associates  
5 dated February 2016; and technical memorandum:  
6 Nipissar Lake and Lower Landing Lake water balance  
7 assessment executive summary, English and Inuktitut,  
8 prepared by Golder Associates Limited, dated February  
9 16th, 2016.

10 Copies of all submissions received for the  
11 application as well as documents related to the file  
12 are available on NWB's public registry and the FTP  
13 site.

14 In addition, our Licencing Administrator, Ida  
15 Porter, has made available for public viewing at this  
16 hearing paper copies of the documents that have been  
17 received to date for the application and the file. If  
18 you are interested in reviewing any of the documents,  
19 please ask Ida.

20 Application procedural history. Now I'm going to  
21 provide you with a brief overview of the procedural  
22 history for the application that is before the Board  
23 which captures only the major procedural aspects.  
24 March 9, 2015, NWB received an application for a Type  
25 "A" Water Licence renewal licence from CGS for the  
26 Hamlet of Rankin Inlet for a 25 (updated subsequently

1 to eight) year term. A longer licence term was the  
2 only requested change to the scope.

3 March 27, 2015, NWB publicly distributed the  
4 application for a completeness check and initial  
5 technical assessment.

6 May 11, 2015, NWB received comments on  
7 completeness from Indigenous and Northern Affairs  
8 Canada, INAC, or former AANDC, and Environment and  
9 Climate Change Canada, ECCC, or former EC.

10 May 15th, 2015, NWB received GN-CGS responses to  
11 intervenors' comments on completeness.

12 May 22, 2015, Nunavut Water Board advised GN-CGS  
13 that additional information needs to be submitted.

14 September 9, 2015, NWB received GN-CGS additional  
15 information required to complete the application.

16 November 2, 2015, NWB publicly distributed the  
17 application for a full technical review.

18 November 30, 2015, the NWB received technical  
19 review documents [sic] from INAC and ECCC.

20 December 8, 2015, NWB received GN-CGS responses to  
21 technical comments.

22 December 10, 2015, NWB issued list of commitments  
23 and list of issues for parties' consideration to be  
24 discussed during the hearing.

25 December 30, 2015, NWB issued TM/PHC decision.  
26 Public hearing was scheduled for March 9 and 10, 2016.

1           February 5, 2016, NWB extended the deadline for  
2   commitment/submissions from January 31st to February  
3   16, 2016, for -- as requested by GN-CGS; updated public  
4   hearing date to March 16 and 17, 2016.

5           February 16, 2016, NWB received additional  
6   comments from GN-CGS.

7           February 26, 2015, NWB received INAC's and EC's  
8   final submissions for public hearing.

9           March 7 and 9, 2016, NWB received copies of the  
10   public hearing presentation from ECCC and INAC  
11   respectively.

12          March 10, 2016, NWB distributed a reminder of  
13   public hearing and proposed agenda for public hearing  
14   and community session.

15          Complete details and all submissions received or  
16   related to the renewal application and the file are  
17   available on NWB's FTP site.

18          I will now move on to a list of issues to be  
19   addressed at the hearing as identified in the  
20   prehearing conference decision: 1, projections of the  
21   annual water use quantity required by the Hamlet  
22   throughout the proposed term of the licence; 2,  
23   sustainability of Char River, present and future.  
24   Current information regarding pumping volumes,  
25   frequency, and timing of pumping; projections regarding  
26   future pumping volumes, frequency, and timing of



1     pumping; details and sustainability of Char River based  
2     on the annual recharge to Nipissar Lake; options/  
3     alternatives if volumes from Char River are proven to  
4     be insufficient; 3, discussion of potential  
5     limits/discharge criteria in the water licence related  
6     to marine discharges; 4, review and provide comments on  
7     updates to management plans and operating procedures,  
8     including: Operations and maintenance plans and  
9     procedures; revised water pumping adaptive management  
10    plan, environmental contingency plan; 5, discussion of  
11    potential infrastructure upgrades during proposed term  
12    of the renewed licence; 6, monitoring program,  
13    including: Updates and amendments to the monitoring  
14    program; updates and amendments to environmental  
15    monitoring program and QA/QC plan; 7, proposed term of  
16    the licence; 8, closure and reclamation plan, including  
17    progressive reclamation plans.

18           If I have missed any written submissions of any  
19    intervenor, please advise David Hohnstein, NWB's  
20    Director of Technical Services, as soon as possible.

21           If there are no concerns, I would like to move  
22    forward to roll call. I will begin roll call with  
23    Government of Nunavut, Community and Government  
24    Services. Please introduce yourselves.

25    Roll Call

26    MS. LUSTY:                           My name is Megan Lusty with

1 Community and Government Services. I'm the regional  
2 and municipal engineer.

3 THE CHAIR: I will now move on to the  
4 local associations and representatives, intervening  
5 parties, Indigenous and Northern Affairs Canada.

6 MR. BURGESS: Good morning. Scott Burgess,  
7 Manager of Waters for INAC.

8 MR. PARSONS: Good morning, Mr. Chairman.  
9 Ian Parsons, Regional Coordinator Water Resource  
10 Division, INAC.

11 THE CHAIR: Thank you.

12 Environment and Climate Change Canada?

13 MR. SUMMERFIELD: Good morning. My name is  
14 Bradley Summerfield. I'm an environmental assessment  
15 coordinator with Environment and Climate Change Canada,  
16 and with me is Anne Wilson, who is the lead of our  
17 expert support water quality group with Environment  
18 Climate Change Canada.

19 THE CHAIR: Thank you.

20 If there are any intervenors not mentioned who  
21 would like to speak, please identify yourself.

22 And before I go any further, I'd like to recognize  
23 the mayor of Rankin Inlet, Robert James. Welcome.

24 It is our tradition to give respect to our elders;  
25 therefore, at any time during the --

26 MR. BURGESS: Sorry, Mr. Chairman. Ken

1 Landa should be -- with the Department of Justice  
2 should be on the phone with us at present.

3 Ken, can you let us know if you're on the line,  
4 please?

5 MR. LANDA: Yes, I can. Sorry for the  
6 interruption to introduce me.

7 THE CHAIR: Thank you. Sorry about that.

8 It is our tradition to give respect to our elders;  
9 therefore, at any time during the proceedings, an elder  
10 may speak to the application that is before the Board.

11 Are there any members of the general public who  
12 would like to identify themselves?

13 Are there any representatives from agencies,  
14 associations, et cetera, who have not submitted  
15 interventions, but would like to speak?

16 Before proceeding with the hearing, I would like  
17 to request that if you haven't done so already, all  
18 parties register and sign in with Ida Porter, NWB's  
19 Licencing Administrator, at the side table located at  
20 the entrance.

21 I would now proceed with the identification of any  
22 motions or any objections, as the registry is still  
23 open, to the application that's before the Board.

24 We will now proceed with Item 5 of the agenda,  
25 presentation by the applicant. And, Ms. Lusty, how  
26 much time will you and your representatives require?

1 MS. LUSTY: It's about 15 minutes.

2 THE CHAIR: Thank you.

3 Cindy, please swear the witness.

4 MS. KIEU: Thank you, Mr. Chair. Cindy

5 Kieu, legal counsel for the Nunavut Water Board.

6 Please indicate whether you would like to swear by the  
7 Bible or affirm.

8 MS. LUSTY: Megan Lusty with CGS. I'll  
9 affirm.

10 MEGAN LUSTY, Affirmed

11 MS. KIEU: Megan, before you proceed, I'd  
12 also like to confirm with you that the GN-CGS as the  
13 applicant will be submitting the following documents as  
14 exhibit for the purpose of the record. So I'm just  
15 going to read them out, and then I'll ask you to  
16 confirm thereafter.

17 So before me I have an executive summary of the  
18 GN-CGS water licence renewal application, both in  
19 English and Inuktitut. I also have an executive  
20 summary of the water balance assessment, both in  
21 English and Inuktitut. And, finally, I have a hard  
22 copy of a presentation from GN-CGS with respect to the  
23 Water Licence 3AM-GRA1015 renewal application.

24 MS. LUSTY: Yes, those are the correct  
25 documents.

26 MS. KIEU: Thank you.

1 Megan, just to clarify, do you have an electronic  
2 version of your presentation that you'll be using?  
3 Okay. And that would also be an exhibit, the  
4 electronic copy of it. Great. Thank you.

5 EXHIBIT 1 - Hard copy of the Executive  
6 Summary of the GN-CGS Rankin Inlet Water  
7 Licence No. 3AM-GRA1015 Renewal Application  
8 in English

9 EXHIBIT 2 - Hard copy of the Executive  
10 Summary of the GN-CGS Rankin Inlet Water  
11 Licence No. 3AM-GRA1015 Renewal Application  
12 in Inuktitut

13 EXHIBIT 3 - Hard copy of Rankin Inlet Water  
14 Balance Assessment Executive Summary in  
15 English.

16 EXHIBIT 4 - Hard copy of Rankin Inlet Water  
17 Balance Assessment Executive Summary in  
18 Inuktitut

19 EXHIBIT 5 - Hard copy PowerPoint presentation  
20 of GN-CGS Rankin Inlet Water Licence No.  
21 3AM-GRA1015 Renewal Application given at  
22 Nunavut Water Board Public Hearing Rankin  
23 Inlet Community Hall March 16 and 17, 2016,  
24 in English and Inuktitut

25 MS. LUSTY: Okay.

26 THE CHAIR: Please go ahead with your

1 presentation.

2 Presentation by Community and Government Services

3 MS. LUSTY: Okay. Good morning. My name

4 is Megan Lusty with Community and Government Services

5 here in Rankin Inlet. So I'll begin my presentation

6 here on a -- beginning with a background on the water

7 licence renewal application for our Licence

8 3AM-GRA1015. The Government of Nunavut, Community and

9 Government Services holds a Type "A" Water Licence for

10 the use of the water and sewer -- water and sewer

11 operation in Rankin Inlet, which includes the water

12 supply facilities, the utilidor, the sewage treatment

13 facility, all in Rankin Inlet. The licence was issued

14 on June 9th, 2010, and it expires on May 31st, 2015.

15 Licence Amendment Number 1 for the use of Char River as

16 a supplementary water source to Nipissar Lake was

17 issued on December 23rd, 2014, and on May 19th, 2015, a

18 180-day short-term licence renewal was issued. The

19 licence has been expired since November 27th, 2015.

20 GN-CGS submitted a renewal application to the

21 Nunavut Water Board on March 9th, 2015, seeking to

22 renew the licence for 25 years. We've since modified

23 this request to an eight-year term on May 15th, 2015,

24 based on comments received from both Environment and

25 Climate Change Canada and Indigenous and Northern

26 Affairs Canada during the licence -- to amend the

1 licence term request to eight years after discussion  
2 during the completeness check and the initial technical  
3 review.

4 The licence authorizes GN-CGS to withdraw 850,000  
5 cubic metres annually from Nipissar Lake. Amendment  
6 Number 1 authorizes a maximum of 345 [sic] cubic metres  
7 per day to be transferred from Char River to Nipissar  
8 Lake. GN-CGS is not requesting changes to these  
9 volumes during the licence renewal.

10 On this page here, I have a slide that was in the  
11 licence application with -- that was updated with the  
12 2015 water usage. So above that line will be actual  
13 numbers, and below the line starting at 2016 are  
14 projections. These are based on the current  
15 residential water usage in Rankin Inlet, and the MACA  
16 equations for water consumption for a community of this  
17 size.

18 In 2015, Rankin Inlet used 650,021 cubic metres of  
19 water. You will see that there was an anomaly in 2011;  
20 significantly higher amounts of water were used that  
21 year, but there was a lot of work done on bleeder  
22 control to reduce the water consumption. So since  
23 2012, you'll see more consistent water-use levels.

24 So for an eight-year term, we're requesting until  
25 2024, and that will bring us to approximately the  
26 850,000 cubic metres of water that we're currently

1 authorized under the 3AM-GRA1015 licence.

2 So Nipissar Lake is located about 2 kilometres  
3 northwest of Rankin Inlet. Water is withdrawn year  
4 round from the lake through screen intakes using two  
5 submersible pumps and pumped through a water main  
6 through a Nipissar Lake pumphouse to the Williamson  
7 Lake pumphouse in town. There's a water storage  
8 tank located next to the Williamson Lake pumphouse.  
9 Water treatment takes place at Williamson Lake  
10 pumphouse, which contains two wet wells, four  
11 distribution pumps, two hot water boilers, three heat  
12 exchangers, chlorination equipment, and a diesel  
13 standby generator. Most of the community receives  
14 their water through the pipe system, and the remainder  
15 is serviced through trucked water deliveries.

16 A 4.05-kilometre seasonal water resupply pipeline  
17 was constructed in 2012 from Char River to Nipissar  
18 Lake to replenish the lake levels. Pipeline operation  
19 did not begin until the summer after Amendment Number 1  
20 was issued -- that was this past summer, 2015 -- and  
21 243,637 cubic metres were transferred from Char River  
22 to Nipissar Lake between June 18th and September 11th,  
23 2015, and that was monitored using the flow meter in  
24 that picture there, as per requirements of our water  
25 licence.

26 Amendment Number 1 contains conditions on how much



1 water can be pumped from Char River. No more than  
2 3,485 cubic metres per day, no more than 10 percent of  
3 the flow rate of Char River, and there must be a  
4 minimum flow depth of 0.5 metres. When the second and  
5 third conditions are not met, pumping is not going to  
6 occur.

7 CGS contracted Golder Associates to complete a  
8 water balance assessment of Nipissar Lake and Lower  
9 Landing Lake, including the development of a  
10 theoretical hydraulic rating curve for Char River.

11 So on this slide here you can see the hydraulic  
12 rating curve that Golder submitted to CGS in February  
13 2016. What we are going to do is use this curve and  
14 the table on this slide with the staff gauge that is  
15 in -- installed seasonally in Char River to be able to  
16 monitor the flow rate to make sure that the water  
17 levels are above .5 metres and that we are not pumping  
18 more than 10 percent of the flow. So by looking at our  
19 staff gauge and comparing the height on the staff gauge  
20 to this table, we know the estimated flow rate, and  
21 that is how we monitor whether or not we have to stop  
22 pumping in Char River.

23 Based on the pumping conditions imposed by  
24 Amendment 1, sufficient volumes to meet future water  
25 use requirements are not going to be available for Char  
26 River during average years. And by "average years", I

1 mean average weather conditions, both the length of  
2 winter, the temperature, and the precipitation.  
3 Pumping conditions will be met for approximately 50  
4 days each year during average years, and if pumping the  
5 maximum amount we're allowed to withdraw from Char  
6 River for 50 days, we'd be able to pump 174,250 cubic  
7 metres. The natural annual recharge rate to Nipissar  
8 Lake is 529,345 cubic metres per year. And, again,  
9 this is average conditions, with the natural recharge  
10 and the recharge from Char River totalling 703,595  
11 cubic metres, and that would be the amount that Rankin  
12 Inlet -- sorry, CGS would be able to withdraw without  
13 lowering the water levels in Nipissar Lake.

14 As a note here, 2015 was a much  
15 wetter-than-average year, so that is why the pumping  
16 was able to extend beyond the 50 days that was laid out  
17 in the study by Golder.

18 CGS is looking at Lower Landing Lake as a  
19 long-term alternative water source to replenish  
20 Nipissar Lake. Golder Associates also completed the  
21 Nipissar Lake and Lower Landing Lake water balance  
22 assessment that was submitted to the Nunavut Water  
23 Board when we received it in February 2016. Lower  
24 Landing Lake has a watershed that is significantly  
25 larger than Nipissar Lake. The watershed of Lower  
26 Landing Lake is approximately 66.9 square kilometres,

1 while the watershed of Nipissar Lake is only 3 square  
2 kilometres.

3 In their water balance assessment, Golder  
4 Associates looked at the water balance of Nipissar Lake  
5 and Lower Landing Lake and the historic climate  
6 conditions, as well as future climate conditions in  
7 2050 and 2080. Water supply deficit projections are  
8 made using low, moderate, and extreme consumption  
9 rates, and the model also looks at varying weather  
10 conditions, from extremely dry to extremely wet, as  
11 well as extremely short to extremely long summers. The  
12 total surplus from Lower Landing Lake under median  
13 historic climate conditions is approximately 10 million  
14 cubic metres per year. If the total outfall was able  
15 to be utilized by CGS, it would support approximately  
16 40,000 people, and this is based on the current per  
17 capita water use rates.

18 Under extremely dry conditions and a  
19 maximum-length winter, the winter consumption will  
20 exceed the available active storage capacity of  
21 Nipissar Lake, with a daily consumption rate of  
22 approximately 3,900 cubic metres, but this will not  
23 occur until 2062, 46 years from now, based on the  
24 current per capita water use rates.

25 This slide here is just an example of the  
26 information that is presented in the Golder study.

1 It's extremely detailed, and the Golder study is  
2 available in full on the Nunavut Water Board FTP site,  
3 and there are translation -- pardon me. There's the  
4 executive summary in both English and Inuktitut  
5 available at the front.

6 What this is showing starting on the left of this  
7 page is low water consumption rates. Moving over to  
8 the far right of the page, high water consumption  
9 rates. Where it is green it is showing where we will  
10 have a lower water supply deficit in Nipissar Lake.  
11 So -- and as you move into orange and red, it's where  
12 there's a large water supply deficit. It is not until  
13 the water consumption rate increases significantly from  
14 what it currently is that there will be difficulty  
15 pumping the required water for the community from Lower  
16 Landing Lake during the available summer period.

17 As part of the water licence conditions, GN-CGS,  
18 since 2014, has been collecting water samples from  
19 Nipissar Lake, Char River, and Lower Landing Lake, and  
20 these samples have shown that all three water bodies  
21 have a very similar water chemistry. There's been  
22 additional analysis done to confirm that there's no  
23 hydrocarbon presence in any of these water bodies, and  
24 none of our samples to date have had any hydrocarbons.

25 This slide here just shows the sampling monitoring  
26 stations and where the sampling is taking place. GRA1

1 in the middle of the screen is at Nipissar Lake, and  
2 the two pins near the top are Char River and Lower  
3 Landing Lake.

4 MR. HOHNSTEIN: There's a laser pointer on  
5 there.

6 MS. LUSTY: Oh. Perfect. Thank you.

7 This is Nipissar Lake, Char River, and then where  
8 it was sampled at Lower Landing Lake over here.

9 So also part of the water licence is the sewage  
10 treatment facility. The Rankin Inlet sewage treatment  
11 plant receives sewage via the Johnston Cove lift  
12 station and the Nuvuk subdivision lift station. The  
13 majority of the community is on the piped sewage  
14 system, but there's a small amount that received  
15 trucked sewage pumpout. The sewage truck discharges  
16 its sewage into the pipe system through the Johnston  
17 Cove lift station.

18 Inside the sewage treatment plant, there are two  
19 monster auger grinders and screens that are used to  
20 remove solids from the sewage. The effluent flows  
21 through a pipe outfall into Prairie Bay. Sewage  
22 effluent is sampled quarterly as part of the water  
23 licence, and CGS has agreed with Environment Canada to  
24 also include oil and grease and hydrocarbon testing in  
25 future sampling. A diffuser divides effluent into  
26 three streams at the end of the outfall as it enters

1 the water to help with dispersal.

2 Sewage screenings are collected in a bagging  
3 system and are disposed of at a designated location  
4 within the solid waste site. Approximately 1 cubic  
5 metre of sewage screenings is collected per week.  
6 There's a memorandum understanding existing between CGS  
7 and the Hamlet of Rankin Inlet that allows for CGS to  
8 dispose of the sewage screenings at the solid waste  
9 site. The Hamlet of Rankin Inlet holds a separate Type  
10 "B" Water Licence Number 3BM-RAN1520 authorizing  
11 disposal of waste at the solid waste site.

12 Thank you very much. I would now like to ask if  
13 there's any questions or comments with this  
14 presentation.

15 THE CHAIR: Thank you, Megan.

16 Questions to the applicant by INAC?  
17 Indigenous and Northern Affairs Canada Questions  
18 Community and Government Services

19 MR. PARSONS: Thank you, Mr. Chairman. Ian  
20 Parsons, INAC.

21 Just one question, Megan, and this probably is  
22 going to clarify our only concern remaining. Given  
23 that Char River will not be sufficient to resupply  
24 Nipissar Lake in the future and it looks like Lower  
25 Landing Lake will be sufficient for a number of years  
26 to come, does the GN-CGS have a time period in place

1 for moving the pumping station from Char River to  
2 Nipissar -- or to Lower Landing Lake?

3 MS. LUSTY: Thank you. Megan Lusty, CGS.

4 Yes, once we have the renewed licence issued, we  
5 would -- we are planning to submit a request for a  
6 modification to the Nunavut Water Board to move the  
7 intake from Char River to Lower Landing Lake and to  
8 potentially move the intake as soon as we receive  
9 approval. If that is possible before this summer, we  
10 would move it -- the intake before this summer.

11 MR. PARSONS: Thank you. No further  
12 questions.

13 THE CHAIR: Thank you.

14 Environment Canada?

15 Environment and Climate Change Canada Questions  
16 Community and Government Services

17 MS. WILSON: Thank you, Mr. Chair. It's  
18 Anne Wilson with Environment and Climate Change Canada,  
19 and I just have one question for Megan.

20 In Environment Canada's intervention, we had  
21 sought a commitment from the GN to look at secondary  
22 treatment and to put a plan in place with specific time  
23 frames to move towards improved treatment. Can you  
24 comment, Megan, on what steps the municipality are  
25 looking at to do so -- sorry, that GN is looking at to  
26 do so?

1 MS. LUSTY: Thank you, Megan Lusty, CGS.  
2 There is currently no plans in place for the  
3 construction of secondary treatment at the wastewater  
4 treatment facility; however, we are willing to commit  
5 to beginning the process and begin that with doing a  
6 study on the effluent quality and the impacts that  
7 effluent is having on the marine environment beginning  
8 this summer. This study would need to take place over  
9 a couple of seasons, so we likely wouldn't have it  
10 available, at the earliest, before December 2017.

11 MS. WILSON: Thank you. It's Anne Wilson.  
12 And I'll just make a point of clarification for  
13 Environment and Climate Change Canada's role in looking  
14 at having the treatment improved. The focus from our  
15 perspective driven by the Fisheries Act is for the end  
16 of pipe quality, and although, of course, we're all  
17 concerned about what's going on in the receiving  
18 environment, if resources can be directed more towards  
19 upstream of the end of pipe, that would certainly give  
20 assurances of environmental protection, and maybe if  
21 those resources could be used to get the treatment  
22 upgrade sooner as opposed to looking at the receiving  
23 environment prior to upgrading the treatment. Did that  
24 make sense?

25 THE CHAIR: Megan?

26 MS. LUSTY: CGS, Megan Lusty. Right --



1 currently, the water system effluent regulations, WSER,  
2 do not apply to North of 60, and because the discharge  
3 into the marine environment is outside of the Nunavut  
4 Water Board's jurisdiction, there are also no effluent  
5 quality parameters listed in our water licence. As  
6 such, until there are WSER standards that are put in  
7 place for North of 60, it is difficult to begin  
8 developing infrastructure plans without knowing what  
9 effluent parameters we are going to have to meet by  
10 being able to begin with doing a study on what our  
11 effluent is and how it varies over the different  
12 seasons. We do know our effluent is more diluted  
13 during the wintertime when we have bleeders on to  
14 prevent freezing in our utilidor. This study will be  
15 able to help us better plan for what type of treatment  
16 we will need, and we'll also be able to know how the  
17 effluent is impacting the environment and any special  
18 considerations we would have to take when we're doing  
19 infrastructure planning in the future.

20 Maybe you can let me know, Anne, if I answered  
21 your question.

22 THE CHAIR: Environment Canada?

23 MS. WILSON: Thank you, Mr. Chairman. Anne  
24 Wilson, Environment and Climate Change Canada. No,  
25 that study sounds extremely appropriate and exactly  
26 what I would expect as a good starting point. I think

1 I was just trying to make the point that at this stage,  
2 it wouldn't necessarily be expected for the GN to do  
3 studies within the receiving environment itself, more  
4 looking at what is putting out -- going out in the  
5 effluent now so you can plan for what treatment is  
6 needed as opposed to going and looking at marine biota  
7 or marine-receiving effects at this stage. So I just  
8 was wanting to be clear that our concern will be for  
9 improving treatment, not for looking at existing  
10 environmental effects.

11 THE CHAIR: Megan?

12 MS. LUSTY: Okay. Thanks. CGS, Megan  
13 Lusty. Yeah, that makes sense, and the reason why we'd  
14 be looking at the receiving environment is because we  
15 also have other studies being done in some other  
16 communities at the effect that our wastewater is having  
17 in the north and that -- and those studies are being  
18 used to help develop those far north standards, so to  
19 make the Rankin Inlet study fit with some of the other  
20 studies, that's why it would also be looking at the  
21 receiving environment and the impacts the effluent  
22 would be having there.

23 MS. WILSON: Thank you. Anne Wilson,  
24 Environment and Climate Change Canada. I did have one  
25 more question. With respect to the oil and grease that  
26 is ending up in the effluent stream, are there actions

1     that the GN can take to reduce that at source?

2     MS. LUSTY:                     Megan Lusty, CGS.   Yes.   So  
3     oil and grease is -- oil in general is supposed to be  
4     directed to the municipal solid waste site.  It is not  
5     permitted to be disposed of in the sewage utilidor.  We  
6     have been working with some of the larger businesses to  
7     make sure they're aware that they need to do things  
8     such as cleaning their grease traps, and the -- there's  
9     also a fish processing plant in town.  With the current  
10    treatment available at the plant right now, the -- what  
11    we are focusing on is advising the community that this  
12    cannot be processed through the plant and that oil and  
13    grease cannot be disposed of through the solid waste --  
14    or through the sewage plant.  It is supposed to be  
15    directed to the solid waste site.

16   MS. WILSON:                    Thank you.  It's Anne Wilson,  
17   Environment and Climate Change Canada.  That sounds  
18   very proactive, and that was the end of my questions.  
19   Thank you.

20   THE CHAIR:                     Thank you.  
21            Are there any questions to the applicant from the  
22    general public?

23            Any questions to the applicants from staff?  
24    Nunavut Water Board Staff Questions Community and  
25    Government Services

26   MR. KHARATYAN:                Thank you, Mr. Chair.  Karen

1 Kharatyan, Water Board.

2 Megan, can you go back to Slide 11, please? Slide  
3 11. The question is about average natural recharge  
4 rate to Nipissar Lake is 529,000 cubic metres per year.  
5 Where does this number is coming from [sic]?

6 MS. LUSTY: That number is originally from  
7 the Stanley report that was used as a reference for the  
8 Golder assessment. So the Golder assessment, this  
9 number is in there as average. It is difficult to find  
10 in the report because they look at all of the different  
11 climate normals and have in their -- in their chart  
12 anything from extremely wet to extremely dry, so the  
13 natural average is when it's at 50 percent for  
14 precipitation. That's 50 percent that it could occur  
15 higher or lower. So this natural average recharge is  
16 from the Golder report and previous report by Stanley.

17 THE CHAIR: Staff?

18 MR. KHARATYAN: Karen Kharatyan again.  
19 Because we have a number coming from FSC Architects,  
20 they did a study in 2009, 2010, and based on their  
21 calculation -- based on the calculation of water usage  
22 and the water level decrease, this number is around  
23 311,000. And the study was completed from 19 [sic]  
24 forward to 2009, so they -- they took 15 years of  
25 actual numbers of water usage and the actual number of  
26 level -- lake level decrease.

1           So the question is: How confident you are about  
2   this number because if Golder took into account in  
3   their assessment this number and this is not the right  
4   number, all these table results may -- may not really  
5   present the situation accurately?

6   MS. LUSTY:                   Megan Lusty, CGS. Yes, the  
7   FSC report did not do a water balance assessment. They  
8   looked at the amount of water in the lake and the  
9   amount of water leaving the lake. It was -- it was not  
10   a water balance assessment like was done by Stanley or  
11   by Golder. I'm more confident in the Golder results  
12   than in the FSC report because they also did not  
13   accurately represent the amount of water that was being  
14   used in Rankin Inlet during their -- during their  
15   study. The Golder assessment, in it, details out the  
16   measurements that were taken in '96 when the Stanley  
17   report was done was done during the bathymetric study  
18   that was done from '96 to 2009 and also measurements  
19   that have been done by CGS intermittently and  
20   calibrates all these measurements together to look at  
21   how much water has been recharged to Nipissar Lake and  
22   how much water Rankin Inlet has been using. So I am  
23   significantly more confident with the Golder study than  
24   the FSC report.

25   MR. KHARATYAN:           And if you are confident, it's  
26   okay, but this number may be very easily contained in

1 the water level next year based on -- just based on the  
2 actual calculation of recharge into pumping, pumping  
3 the amount and the water usage amount. Maybe look at  
4 the calculation.

5 MS. LUSTY: Just to speak more to that,  
6 we're still waiting from Golder Associates to provide  
7 us with our tool kit for water usage, and this tool kit  
8 will essentially be a spreadsheet that will have  
9 calculations built into it, where we have the staff  
10 gauges like the picture I showed in here, and we have  
11 that located at Nipissar Lake, Char River, and Lower  
12 Landing Lake. So what we'll be able to do is enter the  
13 number on the staff gauge into this tool kit, and then  
14 we'll know the exact volume of water in Nipissar Lake  
15 and Lower Landing Lake, and we'll also be able to -- be  
16 able to input the actual climate data using our  
17 barometric logger that we're installing seasonally. So  
18 with that climate data, we'll be able to calibrate and  
19 know whether we had that extremely long winter or a  
20 shorter winter, extremely wet or extremely dry or  
21 somewhere in between, and then that tool kit will let  
22 us know how much water we will need to pump from Char  
23 River or Lower Landing Lake to meet that deficit. So  
24 this is an average number shown here, but it is heavily  
25 dependent on precipitation and how hot it is during the  
26 summer or how long the winter lasts. So that's why

1 we'll have this tool kit that we'll be able to update  
2 annually and look at every year to know how much water  
3 we will need to recharge for that specific year and  
4 those specific climate -- or, sorry, specific weather  
5 data.

6 THE CHAIR: Karen?

7 MR. KHARATYAN: One more maybe very naive  
8 question. Is there any way to regulate decreased water  
9 consumption in community?

10 MS. LUSTY: Megan Lusty, CGS. We are  
11 always working to improve the utilidor system and  
12 prevent the leaks and reduce the areas where we need to  
13 have bleeders. So unfortunately if you looked at --  
14 I'll just go back to my consumption page here. If you  
15 look at that, you'll see that in 2014 we actually use  
16 less water than in 2013. But then in 2015, we had a  
17 significant freeze-up during the winter, so there was a  
18 lot more bleeders and a lot more water used in the  
19 first and second quarters. So our best strategy for --  
20 in decreasing the amount of water that the community  
21 uses is to try to continue upgrading the utilidor to  
22 eliminate all the leaks and to prevent having to use as  
23 many bleeders. But this is a maintenance issue that is  
24 taking some time, but we're always trying to prevent  
25 wasted water use.

26 THE CHAIR: Staff?

1 MR. HOHNSTEIN: Thank you, Mr. Chair. David  
2 Hohnstein, Nunavut Water Board. Just wanted to touch a  
3 little bit on the -- I guess the question brought  
4 forward from INAC on the recent information that was  
5 presented in their -- their, I guess, submission before  
6 going into this hearing and the question regarding the  
7 moving of the water -- Nipissar Lake replenishment  
8 water line from Char River to Lower Landing Lake, and  
9 your response was along the lines of, I think, once a  
10 licence is issued, that the GN-CGS would be looking at  
11 submitting a modification request to the Water Board  
12 for that -- for that movement of the line, and through  
13 discussions prior to coming to the hearing internally  
14 with the Water Board staff, that may constitute an  
15 amendment to the licence rather than a modification.

16 So I guess the question might be whether or not  
17 the GN-CGS would look to bringing that into the scope  
18 of the current licence application and addressing it at  
19 the hearing. I think it's a question that also goes to  
20 our legal counsel and possibly, you know, to your legal  
21 counsel as well as to whether or not that can be  
22 brought into this application at this point in the  
23 process or if it would have to wait until a further  
24 timeline and potentially addressing it as an amendment.  
25 So I guess, you know, just looking for some indication  
26 from the GN-CGS as to what the preferred request might



1 be and potentially what a potential timeline would be  
2 for actually carrying out that project.

3 MS. LUSTY: Megan Lusty, CGS. During  
4 previous discussions, we were not able to submit the  
5 original renewal application as an amendment because we  
6 did not yet have this water balance study, so we had  
7 no -- while we knew that Char River may not be enough  
8 water to support Rankin Inlet consumption in the  
9 future, we did not have any background data to prove  
10 that or to prove that Lower Landing Lake was a  
11 sufficient water source. So we did not apply in May --  
12 or March 2015 for an amendment. We simply started the  
13 renewal process.

14 During the whole renewal process, we have  
15 discussed how Lower Landing Lake would ultimately be  
16 our alternative water source if Char River did not have  
17 enough water to support Rankin Inlet in the long term.  
18 If we are able to include in this public hearing and  
19 this renewal process an amendment to move the intake  
20 from Char River to Lower Landing Lake, that would be my  
21 preference. It is only approximately 200 metres that  
22 we would be moving the intake. I'll bring up our  
23 sampling slide here. Basically this is where the  
24 intake currently is. We can -- we're anticipating to  
25 move the intake about 200 metres north to Lower Landing  
26 Lake. We have pipeline in Rankin Inlet. If we were to

1 receive an amendment through this hearing to move to  
2 Lower Landing Lake, we would be able to implement that  
3 change for this summer's pumping season. If we are not  
4 able to include it in this licence hearing, we will  
5 submit an amendment as soon as the licence is issued,  
6 and once that process is finished, we will wait until  
7 we have that approval to build the pipeline.

8 MR. HOHNSTEIN: David Hohnstein, Nunavut Water  
9 Board. Thanks very much, Megan. I think, you know,  
10 maybe we'll look to a legal, I guess, discussion on  
11 whether or not that can be included at this point in  
12 the licencing process as a change in scope with the  
13 additional information that's been provided through --  
14 or by the GN through the commitments that were  
15 developed at the technical meeting, and we'll hold that  
16 off for maybe later discussion this afternoon.

17 MS. KIEU: Mr. Chair, legal counsel for  
18 the Nunavut Water Board, Cindy Kieu. Thanks, David,  
19 and thanks, Megan, for the discussion.

20 I think, as David indicated, let's have -- during  
21 the break, we'll have a brief discussion about CGS's  
22 certainly preference and further discussion in terms of  
23 what we can do and what may be the best procedural  
24 steps to move forward on this matter. Thank you.

25 THE CHAIR: Thank you.

26 Any questions from board members? Thank you.

1 Before I move on to the next presenter, we will take a  
2 15-minute break.

3 (ADJOURNMENT)

4 THE CHAIR: Welcome back. Any further  
5 questions to the applicant? Staff? Intervenors?  
6 Thank you, Cindy.

7 Next we have INAC to do your presentation, please.  
8 Whenever you're ready.

9 MR. BURGESS: Okay. Thank you,  
10 Mr. Chairman.

11 Good morning, everyone. My name is Scott Burgess.  
12 I am the Manager for Water Resources for Indigenous and  
13 Northern Affairs Canada out of the Iqaluit office, and  
14 to my right is Ian Parsons, the Water Resources  
15 Regional Coordinator with the Department's Nunavut  
16 Regional office as well. And on the line we have Ken  
17 Landa, who is legal counsel for us, and he is calling  
18 in from Yellowknife.

19 Ken, can you confirm you're there, please? I  
20 believe Ken is listening in. He just may not be -- may  
21 have it on mute right now.

22 Okay. I would like to thank the Nunavut Water  
23 Board for this opportunity to make a presentation, an  
24 intervention regarding the Government of Nunavut's  
25 application to renew the Hamlet of Rankin Inlet's Type  
26 "A" Water Licence. On behalf of the Department, I

1 would like to express my appreciation to the Hamlet and  
2 the people of Rankin Inlet for their kind hospitality,  
3 and I would like to thank the Nunavut Water Board for  
4 facilitating this licence application review process  
5 and the Government of Nunavut -- Government of  
6 Nunavut's Department of Community and Government  
7 Services and their consultants for responding to our  
8 questions and concerns.

9 THE CHAIR: Excuse me. We're getting a  
10 little ahead of ourselves. You need to be sworn in  
11 before you do your presentation. My apologies for ...  
12 Go ahead, Cindy.

13 MS. KIEU: Thank you, Mr. Chair. Cindy  
14 Kieu, legal counsel for the Water Board. So we're just  
15 going to rewind a little bit and ask you to please  
16 indicate whether you would like to swear by the Bible  
17 or be affirmed for the purpose of giving evidence at  
18 today's public hearing. So if you can indicate.

19 MR. BURGESS: I'll swear by the Bible.

20 MS. KIEU: Okay. I'm just going to  
21 approach you with the Bible. Okay? Thanks.

22 SCOTT BURGESS, Sworn

23 IAN PARSONS, Affirmed

24 THE CHAIR: Thank you, Cindy. Please go  
25 ahead.

26 MR. BURGESS: Okay. Thank you, Mr. Chair.

1 Would you like us to carry on with where I left off?

2 MS. KIEU: Thank you, Mr. Chair. Cindy  
3 Kieu, legal counsel. Unfortunately, I'd like to  
4 request that you start from the beginning, and before  
5 you do, I just need to confirm with you with respect to  
6 the exhibits that you will be submitting today as part  
7 of the record, I have before me an executive summary  
8 public hearing water licence renewal, both in English  
9 and Inuktitut. As well, I have a presentation from  
10 Indigenous and Northern Affairs Canada, a hard copy  
11 both in English and Inuktitut, and I believe you have  
12 an electronic copy of the same presentation. Please  
13 confirm.

14 MR. BURGESS: Yes. That is -- that is what  
15 our submissions are.

16 EXHIBIT 6 - Hard copy executive summary of  
17 Public Hearing Water Licence Renewal Water  
18 Licence No. 3AM-GRA1015 Hamlet of Rankin  
19 Inlet Kivalliq Region in English

20 EXHIBIT 7 - Hard copy executive summary of  
21 Public Hearing Water Licence Renewal Water  
22 Licence No. 3AM-GRA1015 Hamlet of Rankin  
23 Inlet Kivalliq Region in Inuktitut

24 EXHIBIT 8 - Hard copy PowerPoint presentation  
25 Government of Nunavut Renewal Application  
26 Water Licence No. 3AM-GRA1015 Hamlet of

1 Rankin Inlet given at Nunavut Water Board  
2 Public Hearing Rankin Inlet Community Hall  
3 March 16 and 17, 2016, in English and  
4 Inuktitut

5 THE CHAIR: Please go ahead.

6 Presentation by Indigenous and Northern Affairs Canada

7 MR. BURGESS: Okay. Thank you, Mr. Chair.

8 As mentioned earlier, my name is Scott Burgess.  
9 I'm the Manager for Water Resources for Indigenous and  
10 Northern Affairs Canada, and I'm joined with Ian  
11 Parsons -- by Ian Parsons, who is the Water Resources  
12 Regional Coordinator with the Department's Nunavut  
13 regional office, and on the line with us, I believe,  
14 Ken Landa, our legal counsel, should be calling in from  
15 Yellowknife.

16 Ken, are you there?

17 MR. LANDA: Hi. It's Ken Landa. I am  
18 here. You weren't hearing me earlier. I don't know if  
19 you can now.

20 MR. BURGESS: Okay. Thank you.

21 Throughout this presentation, we will refer to  
22 Indigenous and Northern Affairs Canada as "INAC" or  
23 "the Department". Our presentation will follow the  
24 outline on the screen. We will talk about our roles  
25 and responsibilities, what our contributions have been  
26 to the water licence amendment application review

1 process to date, the current overview of the water  
2 licence application, and we have one technical comment  
3 dealing with the source of replenishment, followed by a  
4 conclusion.

5       So first of all, I will provide a brief overview  
6 of the Department's responsibilities with respect to  
7 the licence renewal application and the contributions  
8 that the Department has made so far. And then Ian will  
9 provide an update on the technical issue that we had --  
10 had raised earlier.

11       The Department has a broad mandate for the  
12 co-management of freshwater resources and the  
13 management of Crown land in Nunavut under the following  
14 applicable laws: The Department of Indian and Northern  
15 Development Act; the Nunavut Land Claims Agreement Act;  
16 the Nunavut Waters and Nunavut Surface Rights Tribunal  
17 Act and Regulations; and the Territorial Land Act and  
18 Regulations. And although it wasn't -- isn't listed  
19 here, it does apply in this case, the Arctic Waters  
20 Pollution Prevention Act is also under our mandate.  
21 This Act can and is enforced by our Department's field  
22 operations division. The Act applies here as a result  
23 of the Hamlet's sewage being discharged to the marine  
24 environment, and even though this may be outside of  
25 the -- the Nunavut Water Board jurisdiction, we will  
26 speak only to what the Department's expectations are in

1      regards to this discharge in a later slide.

2            The Department also administers and enforces  
3      regulatory authorizations that pertain to Nunavut's  
4      Crown land and freshwater resources. The Department  
5      participates in water licence processes administered by  
6      the Nunavut Water Board, along with other interested  
7      parties providing technical advice and expertise for  
8      the Board's consideration.

9            It should also be noted that the Department's work  
10     continues once a licence is issued. Staff inspect  
11     licence activities to monitor compliance with the  
12     licence terms and conditions, including reviewing  
13     annual reports and tracking activities for overall  
14     impacts to freshwater resources.

15           The Department has contributed going back to about  
16     2010 for the current water licence under consideration,  
17     and most recently, the Department reviewed the scope of  
18     the information included in the renewal application and  
19     recommended further information requests. A written  
20     memorandum was provided on May 11th, 2015. The  
21     Department conducted a technical review of the renewal  
22     application and provided comments and recommendations  
23     for the Board's consideration and a written memorandum  
24     on November the 30th, 2015. The Department also  
25     provided a second technical memorandum in response to a  
26     draft list of commitments distributed by the Board on



1 December 14th, 2015. And, finally, the Department  
2 provided a third technical memorandum in relation to  
3 additional documentation provided by the applicant on  
4 February 25th, 2016.

5 During the course of the licence review process,  
6 the applicant has answered and satisfied many questions  
7 and concerns that the Department has had. At this  
8 time, the Department has only one concern -- had only  
9 one concern with the current licence renewal.

10 At this point, I will now turn the microphone over  
11 to Ian Parsons. He has been on this file for INAC for  
12 the past six years, so he will speak to the technical  
13 issue.

14 MR. PARSONS: Good morning, Mr. Chairman.  
15 Ian Parsons with INAC. The one remaining concern that  
16 we had was with regards to the source for  
17 replenishment. Through documentation provided by the  
18 applicant, we -- we realized that Char River would not  
19 be sustainable in the near future and that Lower  
20 Landing Lake was the more adequate source for  
21 replenishment of Nipissar Lake.

22 In this morning's presentation by the applicant,  
23 they made it quite clear that they were in agreement  
24 and that they would like to move their pumping station  
25 to Lower Landing Lake as soon as practical. This is --  
26 this concern now has been adequately addressed by the

1 applicant. So right now, our concerns have been met,  
2 and we will go on to a few pictures that we have.

3 This first picture is of Nipissar Lake. It was  
4 taken in September of 2015, and this picture shows -- I  
5 don't know if "drastic" is the right word, but it shows  
6 a drop in the historic water levels to what they are  
7 today because of the insufficient water supply. Hence  
8 the -- the need for a replenishment source for Nipissar  
9 Lake.

10 The second picture, also from September 2015,  
11 shows the current point along the Char River withdrawal  
12 that was taking place. We can see Lower Landing Lake  
13 in the background.

14 The third photograph is just a photograph of the  
15 pipeline that shows a portion of the pipeline in place  
16 at the Char River, and just above the intake location  
17 where the pipeline nears the road, the pipe extends  
18 outwards to reach the water surface, and when not in  
19 use, the intake pipe collapses back into a pipeline and  
20 is secured.

21 Our last slide is a conclusion, and I will pass  
22 the microphone now back over to Scott.

23 MR. BURGESS: Thank you, Ian. Scott Burgess  
24 with INAC. The Department would like to conclude by  
25 stating that although it is vitally important that  
26 Nipissar Lake be seasonally replenished as there is a

1 risk that it will not be an adequate water source for  
2 the residents of the Hamlet of Rankin Inlet, we also  
3 need to ensure that the water source chosen for the  
4 replenishment is both adequate and environmentally  
5 sound; therefore, the Department recommends that the  
6 issue of moving the source location from Char River to  
7 Lower Landing Lake for the replenishment of Nipissar  
8 Lake should be agreed upon and addressed as part of the  
9 renewal process.

10 At this time, the Department would like to speak  
11 to the issue mentioned earlier, that being the deposit  
12 of waste directly into the marine environment at the  
13 sewage outfall. Although this discharge is not  
14 regulated by Nunavut Waters Act and therefore is not  
15 licenced by this Board, I will give a very brief  
16 overview on this issue for the benefit of anyone  
17 wishing to know more about how this will be regulated.

18 The Arctic Waters Pollution Prevention Act  
19 prohibits the deposit of waste in Arctic waters unless  
20 that deposit is authorized. Deposits of domestic waste  
21 and industrial waste are authorized by different  
22 authorities. Deposits of domestic waste can be  
23 authorized by the Government of Nunavut.

24 THE CHAIR: Could you slow down a bit for  
25 her benefit and thank you.

26 MR. BURGESS: Okay. Certainly. Sorry.

1           Deposits of industrial waste are federally  
2 regulated. Although we don't have the best information  
3 present with us at this point, the working assumption  
4 that we have is that while Rankin Inlet's sewage is  
5 made up primarily of domestic waste, it probably also  
6 contains a small amount of industrial waste; therefore,  
7 both the Government of Nunavut and a federal  
8 authorization are required. The Government of Nunavut  
9 authorization would be under the Public Health Act and  
10 the public sewage regulations under that Act. The  
11 federal authorization would be done through the legal  
12 instrument, likely a lease or a licence of occupation,  
13 that INAC would issue that allows for the outfall  
14 infrastructure to sit on federal land.

15           And to be clear, these two authorizations that I  
16 am talking about for the Arctic Waters Pollution  
17 Prevention Act purposes are not part of the Fisheries  
18 Act regime. Fisheries Act compliance presents  
19 different issues, and these two authorizations are not  
20 part of that.

21           So these are discussions that we will be having  
22 with the proponent outside of this hearing, but we just  
23 felt it was important to get some information out there  
24 for the purposes of all parties here.

25           And that concludes our presentation. Thank you  
26 for listening to us, and thank you for the opportunity

1 to present here. And, lastly, the Department has no  
2 issues with the proposed term of eight years for the  
3 licence. And if anybody has any questions or comments,  
4 please present them.

5 THE CHAIR: Thank you, Scott.

6 Megan, question to INAC?

7 Community and Government Services Questions Indigenous  
8 and Northern Affairs Canada

9 MS. LUSTY: Yes. Thank you, Mr. Chairman.  
10 Megan Lusty, CGS. I just want to make a comment to  
11 your statement regarding the sewage regulations. CGS  
12 has begun discussions with the Department of Health.  
13 This is something that has just recently happened, as  
14 they were not previously aware that they were  
15 responsible for regulations under the Public Health  
16 Act. So what we are going to be doing is getting a  
17 ruling from the chief medical officer of health, and we  
18 will share that with INAC once we do receive it. But,  
19 again, we are in agreement that we'll continue having  
20 discussions with yourselves and with the Department of  
21 Health, but it is outside of the scope of the water  
22 licence, so these discussions and the ruling from these  
23 other departments should -- in our opinion, should not  
24 hinder the issuance of our licence renewal. Thank you.

25 THE CHAIR: INAC?

26 MR. BURGESS: Scott Burgess with INAC. Yes,

1 Megan, that's -- that's correct, yeah. We don't see  
2 these holding up the issuance of the licence.

3 THE CHAIR: Megan?

4 MS. LUSTY: No further questions. Thank  
5 you.

6 THE CHAIR: Thank you.

7 Environment Canada? Environment Canada, any  
8 questions to INAC?

9 MR. SUMMERFIELD: Thanks. Bradley Summerfield  
10 with Environment and Climate Change Canada. We have no  
11 questions for INAC. Thanks.

12 THE CHAIR: Thank you.

13 Any questions from staff? Board members? No?

14 I see we're 11:30. We should break for lunch and  
15 be back here at 1.

16

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17 PROCEEDINGS ADJOURNED UNTIL 1:00 PM

18

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19 THE CHAIR: Welcome back. Next on the  
20 agenda is Environment Canada. Cindy, do you want to  
21 swear in the ...

22 MS. KIEU: Hi. Cindy Kieu, legal counsel  
23 for the Water Board. Could you please indicate whether  
24 you'd like to swear on the Bible or affirm?

25 MR. SUMMERFIELD: I'll affirm, please.

26 MS. WILSON: And I'll swear, please.

1 ANNE WILSON, Sworn

2 BRADLEY SUMMERFIELD, Affirmed

3 THE CHAIR: Thank you, Cindy.

4 Go ahead whenever you are ready.

5 MS. KIEU: Thank you, Mr. Chair. I just  
6 want to confirm with the intervenor that for the  
7 purpose of the public hearing you are submitting the  
8 following exhibits: A presentation from Environment and  
9 Climate Change Canada, one in English and Inuktitut, as  
10 well as an electronic version of the presentation.

11 MR. SUMMERFIELD: That's correct.

12 EXHIBIT 9 - Hard copy PowerPoint presentation  
13 Environment and Climate Change Canada's  
14 presentation to Nunavut Water Board  
15 Concerning the Hamlet of Rankin Inlet's Water  
16 Licence Renewal Application given at Nunavut  
17 Water Board Public Hearing Rankin Inlet  
18 Community Hall March 16 and 17, 2016, in  
19 English

20 EXHIBIT 10 - Hard copy PowerPoint  
21 presentation Environment and Climate Change  
22 Canada's presentation to Nunavut Water Board  
23 Concerning the Hamlet of Rankin Inlet's Water  
24 Licence Renewal Application given at Nunavut  
25 Water Board Public Hearing Rankin Inlet  
26 Community Hall March 16 and 17, 2016, in

1 Inuktitut

2 THE CHAIR: Whenever you're ready.

3 Presentation by Environment and Climate Change Canada

4 MR. SUMMERFIELD: Okay. Thank you.

5 Good afternoon. My name is Bradley Summerfield.

6 I'm an Environmental Assessment Coordinator with  
7 Environment and Climate Change Canada. With me this  
8 afternoon is Anne Wilson, who is the lead of our water  
9 quality expert support group.

10 So I'm going to start with a few brief slides  
11 about Environment and Climate Change Canada's mandate  
12 and our role in Nunavut, and then I will move into a  
13 few brief comments on this particular application.

14 Environment and Climate Change Canada's mandate is  
15 provided for under the Department of the Environment  
16 Act, and it includes a general responsibility for  
17 environmental management and protection to preserve and  
18 enhance water, air, and soil quality; to conserve and  
19 protect migratory birds, species at risk, and other  
20 flora and fauna; to provide meteorological information;  
21 and to coordinate various environmental policies and  
22 programs across the country.

23 Environment and Climate Change Canada fulfills its  
24 mandate through a number of acts and regulations. Some  
25 of which you can see here are the previously mentioned  
26 Department of the Environment Act; the Canadian



1 Environmental Protection Act; the Fisheries Act,  
2 specifically the pollution prevention provisions; the  
3 Migratory Birds Convention Act; and the Species at Risk  
4 Act.

5 Environment and Climate Change Canada's role in  
6 Nunavut is to review development and remediation  
7 proposals for environmental impacts falling within  
8 ECCC's mandate; to provide recommendations and expert  
9 advice to the Nunavut Impact Review Board, as well as  
10 the Nunavut Water Board; and also to enforce compliance  
11 with legislation and regulations that fall within  
12 Environment and Climate Change Canada's mandate.

13 For the context of this review, the Government of  
14 Nunavut submitted an application for a renewal of the  
15 Hamlet of Rankin Inlet Type "A" Water Licence. ECCC's  
16 comments reflect issues outstanding after technical  
17 discussions with the GN. The concerns are focused on  
18 the marine discharge quality and the monitoring; the  
19 secondary treatment of sewage wastewater; updates to  
20 the sewage treatment facility, operation, and  
21 maintenance plan; and the management of oils and  
22 grease.

23 For monitoring of marine discharge quality, the  
24 municipal water licence requires quarterly monitoring  
25 of effluent for parameters as specified in Part H.4 of  
26 the current licence. ECCC recommends two changes. The

1 first is that total petroleum hydrocarbons should be  
2 analyzed using a method that measures mineral sources  
3 of hydrocarbons. As well, the lab test for total oil  
4 and grease should also be done to measure all  
5 hydrocarbons, including biological lipids. ECCC also  
6 recommends that analysis be done for CBOD5, either in  
7 addition to or in place of Biological Oxygen Demand 5  
8 to determine the pollutant removal from wastewater.

9 Monitoring of marine discharge quality. ECCC  
10 recommends Item H.9 be carried forward in the renewal  
11 licence and that the plan be submitted for Board  
12 approval. ECCC supports retaining the requirement  
13 under Item H.10, an annual review of the plan and that  
14 the reference therein to Part J should be corrected.

15 For future infrastructure upgrades, Environment  
16 and Climate Change Canada and the GN have agreed to  
17 continue discussing effluent quality for marine  
18 discharge outside the water licence process. There  
19 will be a required upgrade to the facility in order to  
20 facilitate the necessary improvement of effluent  
21 quality, which should be required under this water  
22 licence.

23 ECCC has been seeking a commitment from the  
24 Government of Nunavut to identify options for secondary  
25 treatment and to develop a plan to implement secondary  
26 treatment within a specific time frame in order to

1 ensure compliance with the Fisheries Act. This time  
2 frame of implementation and commissioning of secondary  
3 treatment should fall within this current licence  
4 renewal term.

5 Environment and Climate Change Canada suggests a  
6 shorter licence term would be appropriate to align with  
7 the planning horizon for treatment upgrades. ECCC  
8 suggests that a term of eight years be considered by  
9 the Board, as previously put forward by the parties and  
10 agreed to by the GN.

11 For the disposal of oils and grease, ECCC  
12 recommends that there be further compliance promotion.  
13 As we heard, this is already underway in the hamlet.  
14 As identified earlier, high levels of processing plant  
15 and other waste fats are entering the municipal  
16 wastewater stream.

17 The GN had indicated that the commercial  
18 facilities operating in the hamlet have been approached  
19 regarding disposal of grease. Improvements have not  
20 yet been achieved, but we are optimistic they will be.

21 In conclusion, we'd like to thank the Nunavut  
22 Water Board for the opportunity to participate in this  
23 Type "A" Water Licence renewal for the Hamlet of Rankin  
24 Inlet. Thank you.

25 THE CHAIR: Thank you. Nothing from Anne?

26 MR. SUMMERFIELD: No.

1 THE CHAIR: Questions to Environment  
2 Canada from -- by the applicant?  
3 Community and Government Services Questions Environment  
4 and Climate Change Canada

5 MS. LUSTY: Thank you. Megan Lusty, CGS.  
6 I'd like to respond to your slide and your  
7 recommendations regarding the monitoring of the marine  
8 discharge quality. We are already doing the total oil  
9 and grease test and CBOD. Even though it was not  
10 listed in the parameters, it's part of our wastewater  
11 package that is analyzed. So you can find the results  
12 for previous samples in the full certificate of  
13 analysis from the lab that is submitted with the annual  
14 reports. It's just not provided in this summary  
15 because it wasn't a parameter that was previously  
16 requested to be tested, even though it was being  
17 tested.

18 And as previously discussed, we will start testing  
19 the hydrocarbons as well in the wastewater stream  
20 continuing on from the sampling that we did in the  
21 last -- in the fourth quarter of the -- 2015.

22 MR. SUMMERFIELD: Thanks very much for that.

23 MS. LUSTY: Okay. My next comment relates  
24 to the quality assurance/quality control plan. There  
25 was a QA/QC plan submitted with a cover letter from our  
26 lab -- lab, which we use ALS in Winnipeg, that was

1 submitted with the application package. So it is --  
2 but we agree that it can be reviewed annually with the  
3 annual report.

4 Moving on to the future infrastructure upgrades,  
5 as I mentioned earlier, we are able to commit to doing  
6 a wastewater effluent study; however, we won't be able  
7 to begin any planning process until we have that study  
8 with regards to secondary treatment and the type of  
9 treatment that does need to take place and the -- or  
10 the effluent contaminants that we will be treating for.  
11 This study we want to take over a few seasons, so the  
12 earliest that I could foresee that happening would be  
13 December 2017, but after that point, I believe we would  
14 be able to create a plan for developing secondary  
15 treatment starting -- start developing a plan and a  
16 timeline beginning in 2018 once we have that study  
17 complete.

18 MR. SUMMERFIELD: Okay. Thank you very much.

19 MS. LUSTY: Megan Lusty, CGS. That was my  
20 last comment on your presentation. Thank you.

21 THE CHAIR: Thank you.

22 INAC?

23 MR. BURGESS: We have no questions.

24 MR. PARSONS: Mr. Chairman, Ian Parsons

25 INAC. We have no questions for ECCC. Thank you.

26 THE CHAIR: Thank you.

1           Staff? Go ahead.

2   Nunavut Water Board Staff Questions Environment and  
3   Climate Change Canada

4   MR. KHARATYAN:                   Thank you, Mr. Chair. Karen  
5   Kharatyan, Water Board. I have a small question with  
6   respect to Item H.9. Environment Canada or Environment  
7   and Climate Change Canada was recommended to keep this  
8   condition, yes? The condition rights, exactly. The  
9   licence shall be, between 90 days following approval of  
10   the licence, submitted to the Board for review of  
11   revised environmental monitoring program and quality  
12   assurance/quality control plan. So a report was  
13   submitted in May -- no, in September 2015, an updated  
14   environmental monitoring program and QA/QC plan. So  
15   the question is: Do you want to keep this condition to  
16   be annually reviewed, or you have some concern with  
17   respect to this plan that was submitted by GN-CGS?

18   MS. WILSON:                    Thank you. Anne Wilson,  
19   Environment and Climate Change Canada. A reviewer had  
20   identified a couple of items with the current quality  
21   control and assurance plan, and I believe it was within  
22   the number of quality control samples collected. They  
23   weren't doing equipment blanks or something to that  
24   effect. So the details of the plan could be updated.  
25   It doesn't have to be a full resubmission. So the  
26   wording of that condition could reflect any updates to

1 be submitted as opposed to a new plan.

2 MR. KHARATYAN: Karen Kharatyan, again, Water  
3 Board. So just update the final plan?

4 MS. WILSON: M-hm.

5 MR. KHARATYAN: Okay. Thank you.

6 THE CHAIR: Any further questions from  
7 staff?

8 MR. HOHNSTEIN: David Hohnstein, Nunavut Water  
9 Board. No, no more -- no more questions, Mr. Chair.

10 THE CHAIR: Board members?  
11 Community and Government Services Questions Environment  
12 and Climate Change Canada

13 MS. LUSTY: Sorry, can I just request  
14 clarification on that last point? With regards to  
15 updating the plan, is it that the quality control  
16 measures need to change or that the plan has to be more  
17 carefully followed so that the -- I believe it was the  
18 field blanks and as well as the duplicate sampling that  
19 there was a comment on during the technical review  
20 period.

21 THE CHAIR: Anne?

22 MS. WILSON: Thank you. Anne Wilson, ECCC.  
23 The plan should be updated to reflect current best  
24 practices, and I believe the lab is going to provide  
25 you some wording around that, and then just to ensure  
26 they're followed and those results are available to

1 review with the lab results.

2 MS. LUSTY: Okay. Thank you.

3 THE CHAIR: Any questions to Environment  
4 Canada Climate Change from the general public?

5 Go ahead.

6 The Public Questions Environment and Climate Change  
7 Canada

8 MR. ANGOSHADLOK: My name is Thomas Angoshadlok.

9 I have a question for you guys, ECCC. A lot of  
10 snowmobiles and ATV goes through that lake where the  
11 pipes are now. What are you guys doing to make sure  
12 it's going to be clean for us in the future?

13 And there's animals that go through there, and  
14 they poop or pee around that lake. What are you guys  
15 going to do to clean that?

16 And during the summer, people swim in there, and  
17 they use seadoos; what are you guys going to do to keep  
18 that lake clean?

19 THE CHAIR: Anne?

20 MS. WILSON: Thank you. Anne Wilson,  
21 Environment and Climate Change Canada. Thank you for  
22 that question, Thomas. The drinking water would fall  
23 under the Public Health as opposed to Environment  
24 Canada. On a personal level, I can tell you we had a  
25 really good tour a few weeks ago through the drinking  
26 water treatment plant, and I have no hesitation



1 drinking the water here. It's very well treated.

2 Megan has spoken to some of the needs around that, and  
3 maybe I'll just let her answer that more -- more  
4 accurately.

5 MS. LUSTY: Yeah. Megan Lusty, CGS.

6 Yeah, the water is treated at the plant at Williamson  
7 Lake pumphouse so that it's treated after -- after any  
8 contact with animal fecal matter could have  
9 contaminated the water. That's why we treat the water,  
10 to remove those contaminants and make sure the water is  
11 disinfected. Again, it falls under the Nunavut Public  
12 Health Act, so it's not within the scope of this water  
13 licence.

14 But we also do annual testing at Lower Landing  
15 Lake, Char River, and Nipissar Lake of hydrocarbons, so  
16 if there is any contamination from snowmobiles or  
17 seadoos of fuel getting into the lake, we'd be testing  
18 that, and we would -- we would know if that  
19 contamination was there, but we haven't found any  
20 traces of hydrocarbons in those three drinking water  
21 sources.

22 THE CHAIR: Thank you. Any further  
23 questions from the public?

24 This pretty much concludes the presentations for  
25 today, but we will adjourn 'til 7 tonight for our  
26 community session. So we'll see you back here at 7

1     tonight for our community session, and then tomorrow  
2     morning we'll -- we'll do the closing remarks for  
3     tomorrow morning. So enjoy the sunshine, and we'll see  
4     you back here at 7. Thank you.

5             EXHIBIT 11 - Electronic copy PowerPoint  
6             presentation GN-CGS Rankin Inlet Water  
7             Licence No. 3AM-GRA1015 Renewal Application  
8             given at Nunavut Water Board Public Hearing  
9             Rankin Inlet Community Hall March 16 and 17,  
10            2016, in English and Inuktitut

11            EXHIBIT 12 - Electronic copy PowerPoint  
12            presentation Government of Nunavut Renewal  
13            Application Water Licence No. 3AM-GRA1015  
14            Hamlet of Rankin Inlet given at Nunavut Water  
15            Board Public Hearing Rankin Inlet Community  
16            Hall March 16 and 17, 2016, in English and  
17            Inuktitut

18            EXHIBIT 13 - Electronic copy PowerPoint  
19            presentation Environment and Climate Change  
20            Canada's Presentation to the Nunavut Water  
21            Board Concerning the Hamlet of Rankin Inlet's  
22            Water Licence Renewal Application given at  
23            Nunavut Water Board Public Hearing Rankin  
24            Inlet Community Hall March 16 and 17, 2016,  
25            in English and Inuktitut

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1 PROCEEDINGS ADJOURNED UNTIL 7:00 PM, MARCH 16, 2016

2

3 CERTIFICATE OF TRANSCRIPT:

4

5 I, Christy Longacre, certify that the foregoing  
6 pages are a complete and accurate transcript of the  
7 proceedings, taken down by me in shorthand and  
8 transcribed from my shorthand notes to the best of my  
9 skill and ability.

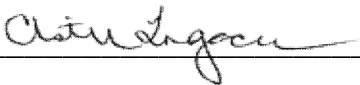
10 Dated at the City of Calgary, Province of Alberta,  
11 this 21st day of March 2016.

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16 Christy Longacre, RPR, CSR(A)

17 Official Court Reporter

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## EXHIBITS

EXHIBIT 1 - Hard copy of the Executive Summary of the GN-CGS Rankin Inlet Water Licence No. 3AM-GRA1015 Renewal Application in English	21
EXHIBIT 2 - Hard copy of the Executive Summary of the GN-CGS Rankin Inlet Water Licence No. 3AM-GRA1015 Renewal Application in Inuktitut	21
EXHIBIT 3 - Hard copy of Rankin Inlet Water Balance Assessment Executive Summary in English	21
EXHIBIT 4 - Hard copy of Rankin Inlet Water Balance Assessment Executive Summary in Inuktitut	21
EXHIBIT 5 - Hard copy PowerPoint presentation of GN-CGS Rankin Inlet Water Licence No. 3AM-GRA1015 Renewal Application given at Nunavut Water Board Public Hearing Rankin Inlet Community Hall March 16 and 17, 2016, in English and	21

1	Inuktitut	
2		
3	EXHIBIT 6 - Hard copy executive summary of	45
4	Public Hearing Water Licence Renewal Water	
5	Licence No. 3AM-GRA1015 Hamlet of Rankin	
6	Inlet Kivalliq Region in English	
7		
8	EXHIBIT 7 - Hard copy executive summary of	45
9	Public Hearing Water Licence Renewal Water	
10	Licence No. 3AM-GRA1015 Hamlet of Rankin	
11	Inlet Kivalliq Region in Inuktitut	
12		
13	EXHIBIT 8 - Hard copy PowerPoint	45
14	presentation Government of Nunavut Renewal	
15	Application Water Licence No. 3AM-GRA1015	
16	Hamlet of Rankin Inlet given at Nunavut	
17	Water Board Public Hearing Rankin Inlet	
18	Community Hall March 16 and 17, 2016, in	
19	English and Inuktitut	
20		
21	EXHIBIT 9 - Hard copy PowerPoint	55
22	presentation Environment and Climate	
23	Change Canada's presentation to Nunavut	
24	Water Board Concerning the Hamlet of	
25	Rankin Inlet's Water Licence Renewal	
26	Application given at Nunavut Water Board	

1	Public Hearing Rankin Inlet Community	
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3 EXHIBIT 13 - Electronic copy PowerPoint 66  
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5 Change Canada's Presentation to the  
6 Nunavut Water Board Concerning the Hamlet  
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