

MANITOBA CLEAN ENVIRONMENT COMMISSION

LAKE WINNIPEG REGULATION REVIEW

UNDER THE WATER POWER ACT

VOLUME 2

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Transcript of Proceedings  
Held at RBC Convention Centre  
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WEDNESDAY, MARCH 11, 2015

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1 WEDNESDAY, MARCH 11, 2015

2 UPON COMMENCING AT 1:00 P.M.

3 THE CHAIRMAN: Good afternoon.

4 Welcome to day two of the Winnipeg hearings. This  
5 afternoon we'll begin cross-examination of  
6 Manitoba Hydro's presentation. We have, by draw,  
7 made a list of an order of questioning and first  
8 up will be Manitoba Wildlands, Tataskweyak I  
9 understand will have no questions. I also  
10 understand that the MMF may not be ready yet so  
11 we'll see when we get there. We can always drop  
12 them down to the bottom of the list.

13 I don't think there's anything else to  
14 note at this time other than Manitoba Hydro has a  
15 correction from yesterday. Ms. Mayor?

16 MS. MAYOR: Thank you very much. In  
17 reviewing the transcript, it was determined that  
18 there was an error made at page 152, line 7. And  
19 Mr. Hutchison is just going to make that  
20 correction on the record for us.

21 MR. HUTCHISON: Good afternoon. Yes,  
22 on page 152, line 7, the line should have read  
23 decreased rather than increased. So I'll read out  
24 the whole section.

25 THE CHAIRMAN: 152, oh, the

1 transcript.

2 MR. HUTCHISON: So I've got page 152  
3 of the transcript. Line 7 is the line that should  
4 be corrected. It should have read decreased  
5 instead of increased. So the paragraph would  
6 read.

7 "Regulation has lowered peak water  
8 levels, both the average water level  
9 and the residence time of water in the  
10 lake remains similar to what it would  
11 have been without LWR. There are  
12 slight differences in residence time.  
13 In wet years residence time is  
14 decreased due to greater conveyance of  
15 water through the LWR out of the  
16 channel, while in the driest years  
17 residence time is increased in  
18 response to reduced outflows to  
19 maintain a reliable supply of water  
20 for hydroelectric generation."

21 THE CHAIRMAN: Are you able to relate  
22 that to one of these slides, or is it not  
23 directly?

24 MR. HUTCHISON: It would have been in  
25 relation -- actually, no, there wasn't a slide

1 specific to residence time, it's included amongst  
2 a bunch of other factors.

3 THE CHAIRMAN: Okay. Thank you very  
4 much. We will have cross-examination today only  
5 until we break for the afternoon, which will be at  
6 more or less 5:00 o'clock. This evening is  
7 reserved for public presentations.

8 So, turning now to cross-examination,  
9 I'd just like to note, or remind cross-examiners  
10 of our protocols on cross-examination. There are  
11 two particular elements. First of all, it must be  
12 relevant to the issue before us. Secondly, always  
13 be respectful. We won't brook any disrespect to  
14 any of the parties in cross-examination either  
15 way.

16 Mr. Cormie, I'm not sure what you  
17 wanted to say, but I would ask if you would  
18 introduce your back row?

19 MR. CORMIE: Yes, Mr. Chairman, that  
20 was my intention. The panelists in the front row  
21 were sworn in yesterday, but joining us in the  
22 back row this afternoon are several individuals  
23 who will provide us with support. At the far end  
24 of the table is Mr. Warren Coughlin, he's from our  
25 environmental licensing group. Next to him is

1 Ms. Laura McKay, she's with corporate planning and  
2 strategic review. Next to her is Mr. Brian  
3 Giesbrecht from our hydraulic operations  
4 department. And directly behind me is Mr. Phil  
5 Slota from our water resources engineering group.  
6 And that's the introductions.

7 THE CHAIRMAN: I'm sorry, Mr. Slota,  
8 what was his first name?

9 MR. CORMIE: It's Phil.

10 THE CHAIRMAN: Thank you. My  
11 understanding is that they will not be giving any  
12 evidence, they'll just be advising the people in  
13 the front row?

14 MR. CORMIE: That's our intention, but  
15 if it gets to the point where we can't speak  
16 knowledgeably, we may ask them to be sworn.

17 THE CHAIRMAN: Okay. That's not a  
18 problem if you want to give them the mic, and  
19 we'll just take a moment to swear them in at that  
20 point.

21 MR. CORMIE: Thank you.

22 THE CHAIRMAN: Okay. Any other  
23 preliminary matters before I get going? Okay.

24 Ms. Whelan Enns, you're up first.

25 MS. WHELAN ENNS: Gaile Whelan Enns,

1 Manitoba Wildlands. I don't think I can be  
2 heard -- and I see now a switch on and off. Okay.  
3 Just checking the tech here.

4 I have with me some materials that are  
5 reminders for me, if you will, and also a fair bit  
6 of, a fair number of tags and materials, some of  
7 which are specific to questions, some of which  
8 are, again, if you will, place holders and  
9 reminders for myself.

10 Starting then with the slides that we  
11 had presentations from yesterday. I was curious  
12 about the 1916 and 1927 flood data that are the  
13 start of the first presentation yesterday. And I  
14 wanted to return to a question I asked in the Lake  
15 Winnipeg Regulation technical workshop at the end  
16 of January by posing it as a cross-examination  
17 question today. So my question is whether or not  
18 Manitoba Hydro uses or used, for these figures,  
19 the Conservation Commission of Canada's data  
20 concerning Lake Winnipeg and all of the connecting  
21 rivers for arriving at the information here about  
22 flooding? So I have -- the volume is many volumes  
23 and it's all online, but I have the volumes with  
24 the specific Lake Winnipeg and tributaries and  
25 rivers information with me. Did you use it?

1 MR. CORMIE: The historical data that  
2 now resides in the Water Survey Canada database  
3 for river flows and water levels across Western  
4 Canada incorporates all the historical information  
5 that may have been collected. Specifically, we  
6 have not referenced that document, but if that  
7 document contains historical water level, that  
8 would probably form part of the current Water  
9 Survey of Canada record.

10 MS. WHELAN ENNS: Thank you. In terms  
11 of slide 14 there was a reference made, and I  
12 believe it would have been yourself, Mr. Cormie,  
13 to a broad area of effects from the LWR. And that  
14 language is there on the slide. So could I ask  
15 you then to confirm, are we talking about the  
16 Nelson River watershed or are we talking about the  
17 Nelson River CRD areas and parts of more than one  
18 watershed?

19 MR. CORMIE: In the context of this  
20 hearing, we are talking about the effects  
21 resulting from Lake Winnipeg Regulation, which are  
22 the effects that are occurring downstream of Lake  
23 Winnipeg due to the Lake Winnipeg Regulation  
24 project. There have been other effects, the  
25 Kelsey project, Churchill River Diversion project,

1 other projects, but in the context of that slide  
2 it's the effects of regulation of Lake Winnipeg.

3 MS. WHELAN ENNS: In the broad area  
4 downstream?

5 MR. CORMIE: Yeah. And I think  
6 Mr. Swanson described it as the study area.

7 MS. WHELAN ENNS: Thank you. On slide  
8 25, I wanted to ask for a reminder in terms of an  
9 as-of date for this data, forming rivers, this is  
10 percentage inflow into Lake Winnipeg?

11 MR. HUTCHISON: Sorry, can you repeat  
12 the question, please?

13 MS. WHELAN ENNS: Just an as-of date  
14 for this data?

15 THE CHAIRMAN: Can I just offer some  
16 direction here? In law, there is something that  
17 is known as judicial notice in which we accept  
18 certain information, all parties will accept  
19 certain information as given. I think that this  
20 might be something that we would accept in that  
21 nature, although the figures do vary slightly from  
22 time to time. Can you comment on that, Mr. Gawne?

23 MR. GAWNE: Certainly the numbers that  
24 are indicated in that slide were provided in the  
25 response to Manitoba Wildlands number 48. And as

1 indicated in that response, it's based on results  
2 or information from a report, State of Lake  
3 Winnipeg from 1999 to 2007. And it was a report  
4 produced by Environment Canada, I believe.

5 MS. WHELAN ENNS: Thank you.

6 Mr. Chair --

7 THE CHAIRMAN: Can I just remind you,  
8 Ms. Whelan Enns, that if you received a response  
9 to this question in an IR, it shouldn't be asked  
10 again because it's already on the record.

11 MS. WHELAN ENNS: Point taken. That  
12 was an advance question, so I will skip over  
13 anything that might be repetition.

14 The time period that you are  
15 identifying is the reason for my unnecessary first  
16 question. So I'd like to ask the panel, with of  
17 course Mr. Cormie in the lead, whether Manitoba  
18 Hydro agrees that the inflows to Lake Winnipeg  
19 have doubled in the last 15 to 20 years?

20 MR. CORMIE: No. And again, this is a  
21 question that was asked as an IR. In that  
22 response we indicated, I think, since regulation  
23 it's come up about 6 percent. And in the last  
24 decade, it's been a very wet decade, there's been  
25 a significant increase, but the inflows have not

1 doubled.

2                   Going back to the other question you  
3 asked about the percentages and where they were  
4 derived from. We have a history of inflows to  
5 Lake Winnipeg going back to 1912. The problem  
6 with this slide is it indicates what the flows  
7 were on the Dauphin and Fairford River and the Red  
8 River, which were not metered back to that date.  
9 So to the extent that we, when we start getting  
10 those metered records, at that point you can start  
11 allocating them out to those specific drainage  
12 bases. But these are indicative numbers. And  
13 like the chairman indicated, they will vary over  
14 time as Lake Winnipeg watershed goes through the  
15 wet and dry cycles. So you can take any block of  
16 25 or 50 years and get different ratios for those  
17 numbers. But in the broad term, this slide is  
18 intended to show that the major inflows come from  
19 the Winnipeg River and the Saskatchewan River, and  
20 that the Red River is one of the minor  
21 tributaries.

22                   MS. WHELAN ENNS: Thank you.

23                   MR. GAWNE: I'll note that we did look  
24 into the percentages that were indicated in that  
25 table. And based on our records of flows from

1 1976 to date, the ratios are quite similar to  
2 those provided in the table.

3 MS. WHELAN ENNS: Thank you.

4 MR. HUTCHISON: If I can add to that  
5 question, I guess PFN question 31 in the IRs did  
6 ask about how does Manitoba Hydro manage the  
7 almost doubling of inflows to Lake Winnipeg over  
8 the last decade? And our response was, while  
9 inflows to Lake Winnipeg over the last decade have  
10 been above average, they have not doubled. And  
11 then it goes on to explain it further.

12 MS. WHELAN ENNS: Thank you. On page  
13 28, I think this is a quick question, is Manitoba  
14 Hydro involved in the Southwest power pool in  
15 terms of reporting, exchange of information about  
16 regulation of the lake for generation of energy  
17 and/or sales?

18 MR. CORMIE: No.

19 MS. WHELAN ENNS: Thank you. I wanted  
20 to ask you quickly, this is slide 34, whether one  
21 can assume that the peak after 2010 in the LWR  
22 part of the chart is 2011?

23 MR. CORMIE: What's the question  
24 again, please?

25 THE CHAIRMAN: I think that's a safe

1 assumption.

2 MS. WHELAN ENNS: I think it's a safe  
3 assumption also, Mr. Chair. I'm asking because I  
4 was surprised the public information during the  
5 2011 flood indicated that we were exceeding 717.

6 MR. GAWNE: Perhaps you can point to  
7 the information that you are referring to that  
8 said levels were reported above 717?

9 MS. WHELAN ENNS: We'd have to go into  
10 the Government of Manitoba press releases during  
11 the flood of 2011 and I did not have the time to  
12 do that.

13 MR. CORMIE: That chart there is  
14 monthly average level. And so on a daily basis,  
15 the peak level what occurred on a particular day  
16 which would be higher than the average.

17 MS. WHELAN ENNS: Thank you. That's  
18 where I was going with my question. So the  
19 monthly average overall for 2011 is there in that  
20 peak, correct?

21 MR. CORMIE: In that month, that peak  
22 day will form 1/30th or 1/31st of the information  
23 going into the average.

24 MS. WHELAN ENNS: The chart though,  
25 Mr. Cormie, is by year, and that's why I'm asking

1 the question.

2 MR. CORMIE: No, those are monthly  
3 average numbers.

4 MS. WHELAN ENNS: Rolled into a year.

5 MR. CORMIE: No, those are monthly  
6 average numbers.

7 MS. WHELAN ENNS: Sorry, my apologies.  
8 Gotcha.

9 Mr. Chair, I brought a set of  
10 technical questions in with me today, and I'm  
11 going to pass on then anything that I might ask in  
12 cross-examination in terms of forecast, forecast  
13 methodology, the background for forecast. This  
14 tag is on slide 40.

15 THE CHAIRMAN: Ms. Mayor?

16 MS. MAYOR: I'm sorry, I'm not certain  
17 what that means, if she is's going to pass on them  
18 meaning we're not to answer these and we're  
19 ignoring them, or what does she mean by that?

20 MS. WHELAN ENNS: My comment meant  
21 that I will pass on asking any cross-examination  
22 questions with respect to forecasts, given the  
23 technical questions I brought in with me this  
24 afternoon.

25 MS. MAYOR: Thank you.

1 THE CHAIRMAN: Thank you.

2 MS. WHELAN ENNS: This question is  
3 tagged on slide 40, but it came up a few times  
4 yesterday, and it has to do with notification of  
5 communities, and it's very good to see the  
6 notification steps now on the Hydro website.

7 I'd like to know whether or not  
8 Manitoba Hydro has any mechanism for notification  
9 of changes in water levels to communities that are  
10 around Lake Winnipeg?

11 MR. CORMIE: Manitoba Hydro posts its  
12 water level forecasts on its website, and any  
13 interested party can access it there. During  
14 extreme events that occurred, and in anticipation  
15 of say the flood of 2011, or the flood of the  
16 Century, Manitoba Hydro takes out advertisements  
17 in the Free Press and other media in Southern  
18 Manitoba to alert the public that there could be  
19 high water level conditions on the lake. And  
20 during those events we actively try and get the  
21 word out that this event is occurring. But  
22 generally, responsibility for notifying the public  
23 is something that Water Stewardship does as part  
24 of their responsibilities for flooding around the  
25 province.

1                   Manitoba Hydro works in conjunction  
2 with Water Stewardship so that we're all aligned  
3 and we're not providing duplicate activities.

4                   MS. WHELAN ENNS: Thank you. We saw  
5 near the end of the presentations yesterday a list  
6 of committees, scientific studies, organizations  
7 with respect to Lake Winnipeg itself that Manitoba  
8 Hydro participates and supports. Would you tell  
9 us whether any of those organizations or studies  
10 you are involved in on the lake are working to  
11 measure shoreline erosion on the lake?

12                  MS. MAYOR: Is there a slide number?

13                  THE CHAIRMAN: Is there a slide  
14 number, Ms. Whelan Enns?

15                  MS. WHELAN ENNS: Yes, sorry, this  
16 one's tagged on 58.

17                  MR. CORMIE: Again, Ms. Enns, this is  
18 an area that Manitoba Hydro does not have  
19 responsibility for, and as far as I understand and  
20 subject to some additions from those beside me,  
21 there are no active studies on Lake Winnipeg that  
22 we are supporting with regard to shoreline  
23 erosion.

24                  MS. WHELAN ENNS: Thank you very much.  
25 Thank you.

1                   This is slide 116, and it goes back to  
2 my initial question in terms of the broad area  
3 where the effects for regulation of Lake Winnipeg  
4 water levels occur, and what you were referencing.  
5 So on 116, there are communities that I do not  
6 see. So it's, I think, a straightforward  
7 question. Is South Indian Lake not affected by  
8 LWR because it's affected by the Churchill River  
9 Diversion?

10                   THE CHAIRMAN: That's out of scope.

11                   MS. WHELAN ENNS: Okay. We'll leave  
12 questions about missing communities. Thank you.

13                   THE CHAIRMAN: South Indian Lake is  
14 out of scope of the Lake Winnipeg Regulation  
15 review. So, I don't know if there are other  
16 communities that are missing. None that I see,  
17 but...

18                   MS. WHELAN ENNS: I was asking the  
19 question, Mr. Chair, because not all of the  
20 Northern Flood Agreement communities are on that  
21 slide. That's where my starting place for the  
22 question was. So Nelson House is not on the  
23 slide.

24                   THE CHAIRMAN: Nelson House isn't part  
25 of Lake Winnipeg Regulation boundaries, or within

1 the boundaries.

2 MS. WHELAN ENNS: Thank you.

3 On slide 120, there is a reference to,  
4 and this is the Northern Flood Agreement slide,  
5 there was a reference in your comments to the  
6 slide about a very costly implementation process.  
7 Were you referring to the costs of the NFA  
8 implementation process to Manitoba Hydro?

9 MR. SWEENEY: I was referring to the  
10 cost of the implementation of the Northern Flood  
11 Agreement that included all four parties, Manitoba  
12 Hydro, Manitoba, and Canada. And what I was  
13 referencing there is the cost of the process  
14 itself in dealing with some of the issues  
15 surrounding adverse effects in the early years of  
16 the Northern Flood Agreement. The process, I was  
17 referring to the process related to the legal  
18 supports required to address some of those issues.

19 MS. WHELAN ENNS: Which then are  
20 Manitoba Hydro costs in terms of who paid for  
21 them, correct?

22 MR. SWEENEY: No. The cost in relation  
23 to the Northern Flood Agreement are shared,  
24 depending on the type of obligation that's based  
25 in the NFA for each party.

1 MS. WHELAN ENNS: Thank you.

2 I am moving to questions that are not  
3 specifically tagged by a slide and that have  
4 arisen as a result of yesterday's presentations.  
5 We can certainly go back into slides if we need  
6 to. I have two climate change questions in front  
7 of me here, and one is whether Manitoba Hydro has  
8 in fact an in-house climate scientist?

9 MR. CORMIE: Yes, we do. And  
10 actually, we have more than one, we have a whole  
11 section of climate study engineers. And they  
12 participate in the international climate change  
13 studies that are going on around the world. And  
14 actually, I'm very proud of the work of our people  
15 and the contribution that they are making to the  
16 study of climate change in Canada. It's  
17 remarkable.

18 MS. WHELAN ENNS: Is anyone then on  
19 this team part of the group of specialists and  
20 experts in Canada that work with the IPCC on their  
21 assessments?

22 MR. CORMIE: I believe, Ms. Enns, you  
23 understand that Manitoba Hydro is involved in  
24 climate change studies through the Ouranos  
25 initiative, and Ouranos contributes to the IPCC

1 effort.

2 MS. WHELAN ENNS: Thank you. It's a  
3 wonderful acronym.

4 This second climate change question is  
5 one I believe we missed in the IRs, or I'm going  
6 to ask it more directly today, and that is whether  
7 or not permafrost -- I know there's about five  
8 kinds, okay -- whether permafrost in the  
9 downstream LWR area was included in the analysis  
10 in this climate report in the filing from July?

11 MR. CORMIE: In the Manitoba Hydro  
12 report we're focusing on the Lake Winnipeg  
13 watershed, not on the downstream when it comes to  
14 climate change effects.

15 MS. WHELAN ENNS: Thank you. The, I  
16 guess, sort of secondary question then would be,  
17 are you saying then that you did not incorporate  
18 in the projections in your climate report any  
19 future changes or impacts with regards to  
20 permafrost in the LWR area?

21 MR. CORMIE: I'm not 100 percent  
22 certain, Ms. Enns, but I don't believe there are  
23 any permafrost affected lands in the Lake Winnipeg  
24 watershed upstream of the Nelson River. Now, I  
25 could be corrected on that. But to the extent

1 that permafrost and the release of methane gas  
2 from the permafrost is affecting the climate, the  
3 modeling that's done on a worldwide basis includes  
4 that. So to the extent that the models are  
5 predicting the climate in the watershed, that will  
6 form part of it, but I don't believe that there  
7 are any permafrost emissions in that watershed  
8 itself.

9 MS. WHELAN ENNS: Thank you.

10 I have some questions in front of me  
11 now that have to do with the water quality  
12 standards and guidelines for Manitoba. And  
13 there's references in more than one of the  
14 presentations yesterday. And I've got, you know,  
15 questions sort of popping up in front of me here  
16 in more than one format. But the main one is,  
17 would you confirm for us that Manitoba Hydro is  
18 aware that the guidelines are regulatory, that  
19 they are not just guidelines, that they in fact  
20 are in the Water Protection Act and a regulation  
21 under the Water Protection Act referred to in the  
22 body of the Act, that they are regulatory?

23 THE CHAIRMAN: Where are you going  
24 with this? As I understood the presentation  
25 yesterday, they stated that Lake Winnipeg

1 Regulation did not affect water quality.

2 MS. WHELAN ENNS: That's right,  
3 Mr. Chair.

4 THE CHAIRMAN: So what difference does  
5 it make whether or not they follow, or they  
6 understand that the guidelines are regulations?

7 MS. WHELAN ENNS: My second question  
8 is to ask Manitoba Hydro whether they are, in  
9 coming to that conclusion, applying tier one, two  
10 and/or three under the regulation in terms of  
11 water quality?

12 THE CHAIRMAN: Does anyone have an  
13 answer for that?

14 MR. SWANSON: I'm not aware of the  
15 exact specifics of the priority one, two or three  
16 that you are referring to. I'd have to get back  
17 to you on that.

18 THE CHAIRMAN: Again, though, I think  
19 that even if -- if before Lake Winnipeg Regulation  
20 the water was, let's say tier two, and it's still  
21 tier two, then it's irrelevant to us. If it was  
22 tier two and then deteriorated, then that would be  
23 relevant. So if you want to pursue or make the  
24 argument that water quality has lessened since  
25 LWR, then that's legitimate.

1 MS. WHELAN ENNS: I'm going to go into  
2 my notebook and see how we do.

3 This is in relation to slide -- again,  
4 handwritten notes from yesterday -- slide 16 and  
5 Mr. Cormie's comment. And we tried this in IRs.  
6 And I was looking for more with respect to the  
7 nine times that the flood controls for the LWR  
8 were triggered. So does this mean that there were  
9 nine instances, and that then the water level, the  
10 mean water level under the licence has been 715 or  
11 less otherwise? Is that what this means?

12 MR. CORMIE: What it means is that  
13 there were nine flood events, and in those flood  
14 events the wind-eliminated level went above 715,  
15 which required Manitoba Hydro to maximize the  
16 outflow from Lake Winnipeg. And that's what those  
17 nine events were. And they were events of varying  
18 durations, some of them short, some of them long.  
19 So there were maximum discharge for power purposes  
20 in the winter, but those events are not flood  
21 events, those are events driven by the power  
22 demand. These are events driven by hydrology.  
23 And Manitoba Hydro may anticipate that the water  
24 level will rise above 715, and we take action to  
25 move the outflows up. And by the time we get to

1 715, we want to be at the maximum possible  
2 discharge and will remain there until we are  
3 confident that the water level has receded below  
4 elevation 715. So those are the events.

5 MS. WHELAN ENNS: Thank you. That's  
6 what I was seeking and it skips a couple of  
7 questions. So then let's try a basic example.  
8 Then in 2011, you had one or two very sustained  
9 events, I'm being a generalist here, but that  
10 would be a way of applying what you mean by an  
11 event?

12 MR. CORMIE: An event would be a  
13 flood, and the flood could be of duration of  
14 several months. In the flood event of 2011, we  
15 anticipated that, the Province was forecasting a  
16 major flood. Manitoba Hydro operated for flood  
17 control well before we were above 711, we went to  
18 maximum discharge through the winter and we stayed  
19 there. When the water level went above 711, that  
20 would trigger what we called an event for the  
21 purposes of the calculation of the nine.

22 MS. WHELAN ENNS: Thank you.

23 MR. GAWNE: If I could add to that,  
24 please? The 2011 event we spoke of in the  
25 question from PFN, Peguis First Nation number 87,

1 was asking for a lead-up of the operations into  
2 the 2011 flood, where we indicated Manitoba Hydro  
3 was, in fact, operating at maximum discharge since  
4 July 1st of 2010, the year prior --

5 MS. WHELAN ENNS: Thank you very much.

6 MR. GAWNE: -- to manage those flood  
7 flows. So there was a period, I believe, of 15  
8 months of operation at maximum discharge.

9 MS. WHELAN ENNS: Just for the record,  
10 Mr. Chair, I cannot respond to anything with  
11 respect to Peguis First Nation.

12 THE CHAIRMAN: No, we don't anticipate  
13 that, but we do anticipate that you have read  
14 other IRs and responses.

15 MS. WHELAN ENNS: Yeah.

16 THE CHAIRMAN: So if somebody else has  
17 asked and had answered an IR, then you shouldn't  
18 go there either. And that's for all cross  
19 examiner's, not only you.

20 MS. WHELAN ENNS: Thank you.

21 This next question, Mr. Cormie, is a  
22 systems question taking into account what we have  
23 heard and what's been asked and answered to date.  
24 You have made references to electrical demand  
25 being highest in the winter, that being a pattern

1 in terms of operation of, well, the utility, but  
2 certainly the LWR. And I have had a couple of  
3 conversations with scientists at the University of  
4 Winnipeg on this that I am asking questions based  
5 on. And that is if the electrical energy demand  
6 is highest in the winter, does this narrow margin,  
7 again, trying to use your words from yesterday,  
8 does this narrow margin that the LWR provides for  
9 power generation mean that you need the most water  
10 in the winter?

11 MR. CORMIE: The significance of  
12 winter to Lake Winnipeg Regulation has to do with  
13 what the ice in the outlet channels does to the  
14 outflow capacity. In the summer time at say  
15 elevation 715, Manitoba Hydro can discharge  
16 150,000 cubic feet per second. But at that same  
17 level in the winter, it's about half of that. So  
18 the outflow capacity in the winter is half what it  
19 can be under non-ice conditions. Which means  
20 that, and put those numbers in context, the  
21 generating stations downstream have the ability to  
22 pass water through the generators at about  
23 160,000 cubic feet per second. So you have  
24 generators downstream that need 160,000. Lake  
25 Winnipeg can only provide say 75 or 80 or 90,000

1 of that. So there is not enough water coming out  
2 of Lake Winnipeg to drive the generators to meet  
3 electrical demand. Mr. Gawne described how we  
4 augment that flow through additional flows from  
5 the Churchill River. And even when we do that,  
6 that's still insufficient to meet the power demand  
7 and there's many winters where we have to purchase  
8 power. But that operation is driven because the  
9 electrical demands in the province are highest in  
10 the winter, they are about 1,000 megawatts on  
11 average higher than they are in the summer, as  
12 everybody in rural Manitoba is using electric heat  
13 to heat their homes, and the nights are longer and  
14 there's just more electrical load. So it's the  
15 combination of highest demand for electricity and  
16 Lake Winnipeg's inability to get the water that's  
17 in the reservoir to the generating stations due to  
18 ice that shapes the way the Lake Winnipeg  
19 Regulation project is operated.

20 As Mr. Gawne indicated, in the vast  
21 majority of years, we go to maximum discharge  
22 anyways. It's just the most efficient way of  
23 running the power system. And that's driven  
24 mainly by the ice.

25 MS. WHELAN ENNS: Thank you. Valuable

1 answer, and appreciated because these questions  
2 are what is most difficult for the public and the  
3 participants to work with and to understand.

4                   Would you tell us how that worked in  
5 2005, and winter 05/06? That was the most water  
6 in Northern Manitoba in 30 years, since before LWR  
7 perhaps?

8                   MR. CORMIE: Yes. The year of 2005  
9 was the year when the water supply to Manitoba was  
10 the highest. And normally what happens is that we  
11 have a spring flood driven by snow melt run-off,  
12 and then there's heavy rains in the summer, but  
13 the flood wave passes through the lake and works  
14 its way downstream. What happened in the fall of  
15 2005, it continued to rain. And so we had a fall  
16 flood put on top of a spring and summer flood,  
17 which resulted in very high flows all year.  
18 Again, that triggered, we were at maximum  
19 discharge out of Lake Winnipeg throughout that  
20 entire period. And then going to maximum  
21 discharge through the winter in response to the  
22 power demand not only met the needs of the  
23 hydro-electrical system, but was consistent with  
24 getting the lake level back down well below 715,  
25 so that we went into the summer of 2006, we were

1 out of the flood range, back down into the power  
2 range.

3 MS. WHELAN ENNS: How is the event  
4 that is the flood, how does it become the  
5 hydrological event then in terms of what happened  
6 in 05/06? You must have had a sustained event?

7 MR. CORMIE: Well, all floods are  
8 driven by hydrologic events, it's heavy rainfall.  
9 And whether it's the flood of 2013 that happened  
10 in Calgary over a weekend when, out of the blue,  
11 these major rain storms caused flooding, or it's  
12 something like happened in 1993, on Friday we're  
13 fighting forest fires and we come back to work on  
14 Monday and there's been 6 inches of rain across  
15 the north and towns like Swan River are under  
16 water. Those are all hydrological events that are  
17 driven by a sudden very intense and, most  
18 important to Lake Winnipeg, widespread rainfall  
19 that's not anticipated. It shows up, and then  
20 Manitoba Hydro has to deal with that after the  
21 fact through its operations.

22 MS. WHELAN ENNS: Thank you.

23 The 2014 Canada water survey data is  
24 not available yet. And what I would appreciate  
25 hearing is whether the wet cycle or wet period

1 that was referred to in the presentations  
2 yesterday continues in terms of what you know  
3 about the data for 2014?

4 MR. CORMIE: Well, 2014 has been a  
5 very good water year from a water supply  
6 perspective. What will happen going into the  
7 spring is not yet known. We had quite a dry fall  
8 and winter. The snow pack across Western Canada  
9 is below average. And so will it be a high water  
10 year, low water, we don't know that yet. That's  
11 all going to be determined depending on the spring  
12 rains. But we are at maximum discharge now, we're  
13 trying to get Lake Winnipeg down so that we're in  
14 a position to respond either to high flows, but  
15 not too low that if it does turn dry that we put  
16 the power system at risk.

17 MS. WHELAN ENNS: Was there anything  
18 significantly different about operation of the LWR  
19 in dealing with the coldest winter in 120 years?

20 MR. CORMIE: No. And because no one  
21 again predicted the coldest winter, it arrives.  
22 The forecasts generally are all over the place,  
23 some say it's going to be cold, some say it's  
24 going to be warm. As Mr. Gawne has explained  
25 previously, we assume it's going to be normal but

1 we protect against a cold winter and we deal with  
2 it as the winter develops. And a lot of our  
3 flexibility is through those interconnections that  
4 he described. But we were already at maximum  
5 discharge out of Lake Winnipeg during the winter  
6 before last, and there's nothing more  
7 hydraulically that we could have done to manage  
8 that event.

9 MS. WHELAN ENNS: Thank you.

10 MR. GAWNE: As Mr. Cormie had said, we  
11 were at maximum discharge through the winter of  
12 2013/14. Hydraulically with Lake Winnipeg  
13 Regulation there is nothing more than could have  
14 been done.

15 MS. WHELAN ENNS: Thank you.

16 This is general and not specific to a  
17 particular slide, though there was a reference to  
18 wetlands in one of the batches of slides, I think  
19 maybe Mr. Hutchison. So this is similar to an  
20 earlier question about shoreline erosion and  
21 studies of shoreline erosion on Lake Winnipeg. So  
22 could you tell us whether Manitoba Hydro is  
23 involved then -- in the committees and  
24 organizations and scientific work that you support  
25 and participate in, are you involved in any work

1 regarding wetlands on Lake Winnipeg?

2 MR. HUTCHISON: We have funded the  
3 Lake Winnipeg Foundation's recent work into  
4 looking at restoration options for the  
5 Netley-Libau marsh. I believe that comprises our  
6 current involvement.

7 MS. WHELAN ENNS: Thank you.

8 I'd like to ask Mr. Hutchison some  
9 questions now about the concerns that are  
10 identified in your presentation yesterday.

11 My sense, and you can correct me on  
12 this, but my sense is that Manitoba Hydro,  
13 yourself and other staff were involved in engaging  
14 the public, communities, organizations, experts,  
15 people who wanted to, in fact, hear about the LWR.  
16 This engagement period was about a year's  
17 duration.

18 MR. HUTCHISON: I would characterize  
19 it a little bit differently. Based on our request  
20 for a final licence that we did in 2010, also  
21 coinciding with a lot of interest in Lake Winnipeg  
22 because of the current wet period, we initiated  
23 additional, sort of more proactive and engaging  
24 with stakeholders around Lake Winnipeg. And it  
25 was most focused starting the spring and summer of

1 2013.

2 MS. WHELAN ENNS: Thank you. I guess  
3 my knowledge goes to early 2014 in terms of first  
4 seeing the materials. So I take your point. We  
5 heard from you about concerns that were identified  
6 in this public engagement process. Would you --  
7 and this may take, you know, yourself and others  
8 on the panel -- would you let us know how you  
9 arrived at the concerns that you identify in your  
10 presentation? This is an area that, of course, is  
11 not in the filing. So the information we have  
12 from you in the presentation yesterday is what we  
13 have. So the reason why I'm asking you how you  
14 arrived at the set of five or six concerns is  
15 because it doesn't seem like many.

16 MR. CORMIE: Ms. Enns, I remember back  
17 in 1988 going to over 40 open houses around the  
18 south shore of Lake Winnipeg, engaging with the  
19 public in all of the communities along the lake  
20 and in the lower Red River Valley. And you know,  
21 through those open house processes and those  
22 public meetings, we got a sense of generally what  
23 people were worried about. And in those days we  
24 went there and we'd present, and we weren't  
25 necessarily listening -- to Dale's credit, he now

1 goes there and he listens to them and tries to be  
2 responsive. And so there's been a shift away from  
3 going and presenting to going and listening. And  
4 I think what he's been hearing is that, and I  
5 think he can now add to that, but this engagement  
6 has been going on a long time. These are not new  
7 issues that started in 2013 or 2014.

8 MR. HUTCHISON: I would just like to  
9 also point out that it wasn't just the  
10 presentation yesterday that sort of brought up  
11 these concerns, they are written in section 4 of  
12 the report which talks about public engagement on  
13 Lake Winnipeg.

14 MS. WHELAN ENNS: So, point taken that  
15 the filing in July has content in terms of public  
16 engagement. And I wasn't in any way denying that.  
17 What I was thinking about was the lead up. So I  
18 take your correction in terms of the pattern over  
19 time and the pattern before the LWR proceedings.  
20 That also fits, of course, with the 2010, 2011  
21 activity, and here we are in 2015 in the actual  
22 hearings, in terms of the request for final  
23 licence.

24 Did you not hear about concerns about  
25 the dramatic increase in sedimentation in the

1 lake?

2 MR. HUTCHISON: There were certain  
3 communities, and individuals did raise concerns  
4 about sedimentation, but it was not a widespread  
5 issue that was raised. So it wasn't covered along  
6 with the other, I believe it's five categories of  
7 issues.

8 MS. WHELAN ENNS: So I would be  
9 inclined to ask then whether you heard concerns  
10 about changes in wetlands in Lake Winnipeg?

11 MR. HUTCHISON: The predominant issue  
12 I heard concerning wetlands had to do with the  
13 Netley-Libau marsh.

14 MS. WHELAN ENNS: When you were  
15 telling us, and this was in more than one  
16 presentation yesterday, but in terms of the  
17 engagement when you were telling us about the  
18 fishery yesterday, I was expecting, so please tell  
19 me whether you heard about some of the changes in  
20 spawning areas and some of the responses from  
21 water fluctuations in the lake in terms of  
22 operating the fishery. Did that come up in this  
23 lengthier period of time?

24 MR. HUTCHISON: Actually, the most  
25 dramatic comments that had to do with changes in

1 spawning had to do with the Dauphin River and the  
2 flooding that resulted from the emergency channel  
3 getting more water out of Lake Manitoba.

4 MS. WHELAN ENNS: Did you hear about  
5 concerns and worries about how climate change  
6 would affect Lake Winnipeg, whether there were  
7 changes in water temperature happening in the  
8 lake, for instance, whether increases in  
9 temperature were, in fact, part of the story in  
10 terms of all of the changes in blue green algae?  
11 Were you hearing climate change concerns.

12 MR. HUTCHISON: I can recall at least  
13 one community raising how they were doing climate  
14 change preparedness, and so they brought up a  
15 concern with that, but it wasn't something that  
16 was widespread with other communities.

17 MS. WHELAN ENNS: So then I would take  
18 that as meaning -- I was combining this question  
19 with the fishery earlier -- but that also means  
20 that you heard, or only heard very little about  
21 water fluctuations and predictability in terms of  
22 water levels on the lake?

23 MR. HUTCHISON: I wouldn't  
24 characterize it like that at all. I heard over  
25 and over, actually the number one issue was high

1 water levels.

2 MS. WHELAN ENNS: Mr. Chair, Manitoba  
3 Wildlands and perhaps other participants, we're  
4 just starting cross-examination, would like to --  
5 and this is not disputing what's in the filing  
6 from last summer -- would like to know more about  
7 the issues that were identified and how Manitoba  
8 Hydro arrived at the ones that they have said are  
9 primary?

10 THE CHAIRMAN: Just what issues are  
11 you speaking of?

12 MS. WHELAN ENNS: Well, the ones I am  
13 asking questions about. I think the sense is that  
14 we're not -- that there's been a determination by  
15 Manitoba Hydro as to which concerns are primary.  
16 And I think that it would help us all to have a  
17 more thorough report in terms of what Manitoba  
18 Hydro's heard.

19 THE CHAIRMAN: Well, part of the  
20 reasons we're going to be here for the next about  
21 five weeks is to challenge what Manitoba Hydro has  
22 put on the record. I mean, you will be getting an  
23 opportunity, I'm not sure exactly when but  
24 sometime over the next three or four weeks to make  
25 your case and to make your argument, to counter,

1 or you may counter what Manitoba Hydro has put on  
2 the table. That's also part of the reason for  
3 cross-examination. That's why you're asking  
4 questions today and Hydro is responding.

5 MS. WHELAN ENNS: Thank you.

6 Mr. Hutchison, how long has the  
7 material you were showing us near the end of your  
8 presentation yesterday -- I'm now on forecasts,  
9 water levels, notices and so on -- how long has it  
10 been on the Manitoba Hydro website? I was trying  
11 to figure out last night when it started.

12 MR. HUTCHISON: Sorry, what page are  
13 you referring to?

14 MS. WHELAN ENNS: It's one of your  
15 composite pages near the back of your presentation  
16 where you show, you've got a screen shot of the  
17 Manitoba Hydro website.

18 MR. HUTCHISON: Yes, I actually recall  
19 it's since the late '90s that it's been on our  
20 website, posted.

21 MS. WHELAN ENNS: Thank you.

22 MR. CORMIE: And as part of the  
23 licence, Manitoba Hydro is required each month to  
24 provide a forecast for 90 days to the Province of  
25 Manitoba. And that has taken place as required,

1 each month since 1976 we have been preparing and  
2 issuing the 90 day forecast. And it's only with  
3 the evolution of modern technology, Internet, that  
4 it's now possible to make it widely and publicly  
5 available.

6 MS. WHELAN ENNS: In arriving at that  
7 90 day forecast, does Manitoba Hydro forecast  
8 beyond that? Do you go twice that to -- in  
9 parameters that will help you confirm the 90 day  
10 forecast?

11 MR. CORMIE: Well, Mr. Gawne can  
12 probably speak to that, but we have to plan  
13 operation of the power system a year and sometimes  
14 longer. So, yes, we do have forecasts that go out  
15 very long term, but we only publish what's going  
16 to happen in the near term because there's huge  
17 uncertainty. You know, is it going to rain next  
18 fall or not? It's like the weather forecast. I  
19 can tell you what the forecast is going to be  
20 tomorrow with some accuracy. In a week from now,  
21 maybe they can start telling you. But if you ask  
22 me what the weather forecast is in September, I  
23 will probably tell it is going to be average  
24 temperature of the day. In a sense that's where  
25 our forecasts are. If we have normal rainfall,

1 this is where the lake is likely going to be. But  
2 it is so sensitive to what happens between now and  
3 then that it's really not useful information.

4 MS. WHELAN ENNS: Does your  
5 forecasting activity include forecasting and  
6 assessing this wet cycle that we're in?

7 MR. GAWNE: Our approach to forecasts  
8 include, we update our historic data pretty much  
9 as it becomes available. So to the extent that,  
10 for instance, the last 10 years have been wet,  
11 that information has been ingested into our  
12 databases and we use that in generating our  
13 forecasts.

14 MS. WHELAN ENNS: Thank you.

15 Just make a check, Mr. Chair. A  
16 couple of quick ones left and I think that's it.

17 I wonder if the panel perhaps can tell  
18 me what stage the AECOM study regarding water  
19 quality at the top of Lake Winnipeg in Channel One  
20 is at? Is it finished?

21 MR. CORMIE: Channel One? You are  
22 referencing Channel One, what does that do?

23 MS. WHELAN ENNS: I understand that  
24 AECOM has been contracted or commissioned, this  
25 would be by the province, to undertake a water

1 quality study at the top of Lake Winnipeg, and at  
2 the intake into Channel One in terms of where the  
3 LWR is.

4 MR. CORMIE: What is Channel One,  
5 Ms. Enns? I don't know where that is.

6 THE CHAIRMAN: This sounds to me like  
7 it's probably not relevant. In fact, I'd say it's  
8 more than probably not relevant to the issue  
9 before us. I suspect it relates to the current  
10 studies in respect of an outlet from Lake Manitoba  
11 into Lake Winnipeg. I'm just conjecturing but...

12 MS. WHELAN ENNS: And I will confirm  
13 it. Thank you.

14 We heard from the panel yesterday, and  
15 from Mr. Cormie in his closing summary, that there  
16 is a lot of, lack of baseline data and challenges  
17 in terms of the studies that have been done. A  
18 lot in the 1970s and a lot in the 1980s, and  
19 different kinds of patterns since. You also  
20 commented on changes in methods and expectations  
21 and standards and science. What I'd like to ask  
22 is whether Manitoba Hydro has a project under way,  
23 discussion or thinking in terms of how to start to  
24 analyze unbundled impacts on Lake Winnipeg so that  
25 we can get a little farther on whether there are

1 and what the LWR impacts might be on the lake  
2 itself. Do you have anything under way?

3 MR. CORMIE: With regard to the lake  
4 proper, we do not have and are not intending to do  
5 general studies on the lake. That is to the  
6 extent that regulation is involved and implicated,  
7 we would consider involving ourselves in that.  
8 But no one has come to us saying, this, something  
9 is occurring in the lake as a result of Lake  
10 Winnipeg Regulation and you need to study that.  
11 And you could study anything and everything if  
12 money was unlimited. We only want to be involved  
13 in those things where we believe that our  
14 operations are having an effect. And on Lake  
15 Winnipeg, we're not there. And compare that to  
16 downstream where we know we have had a  
17 considerable effect, and our responsibilities and  
18 study requirements are quite clear. On Lake  
19 Winnipeg, we support the science, so that we can  
20 enhance the knowledge of the lake, so that we can  
21 ensure that to the extent our activities are  
22 understood and our impacts are known, we will  
23 participate in the science. But we're not  
24 proposing to do anything new or anything else  
25 associated with the lake, unless it's indicated to

1 us that it's a result of regulation.

2 MS. WHELAN ENNS: Thank you.

3 In terms of understanding some of your  
4 closing comments yesterday afternoon, you also  
5 made a reference to the final licence application  
6 underway now, which is why we're here, and the  
7 2026 date for renewal. My understanding of what  
8 you said was that the next round in terms of the  
9 application for renewal for 2026 would be -- and I  
10 want to avoid putting words in your mouth, but my  
11 understanding was that it would be more up to  
12 current standards in science and engineering, and  
13 help the Province, the utility, and all of us go  
14 forward without the constraints you were  
15 identifying yesterday in terms of baseline data  
16 and comparison over a 40 year period.

17 Am I understanding you correctly in  
18 terms of what you were saying would happen next  
19 time?

20 MR. CORMIE: The Water Power Act, in  
21 its regulations, require Manitoba Hydro to apply  
22 for a renewal licence five years, thereabouts,  
23 before the licence expires. And it's not explicit  
24 on what we have to do beyond what the Water Power  
25 Act licence requires, which is a very, you know,

1 just apply and we'll deal with it at that moment.  
2 We believe there is an opportunity to lay out a  
3 path before that, so that when we actually -- so  
4 that we can start the work now that might be  
5 required to make that pathway from an application  
6 to a renewed licence much more certain for the  
7 utility. But right now it's -- all we have to do  
8 is apply, and five years later the Water Power Act  
9 says that we could get a renewed licence, but  
10 we're not really clear on what that process  
11 involves.

12                   These projects were built prior to the  
13 Environment Act. They were built in a time of  
14 different standards and in a period when there was  
15 not the baseline data. And it would be very  
16 helpful for Manitoba Hydro to know what the rules  
17 going forward for renewals would be, so that we  
18 could do the work that's needed, so that when we  
19 get to that date we're following a process and  
20 we're not caught offguard with unexpected  
21 requirements.

22                   So I think we now have a period  
23 between now and 2026, if policy is set and the  
24 rules of the road are described, then we can  
25 achieve what I would call a modern balance for a

1 renewed licence.

2                   Now, it may be that that modern  
3 balance is exactly the same as the old one, but it  
4 will be done deliberately, having studied it, got  
5 input involved, the public in a public  
6 consultation process, using best science to derive  
7 best policy. And so I believe we do have time to  
8 do that. That's 10, 12 years away, and there are  
9 a lot of issues that still remain to be dealt  
10 with. And Manitoba Hydro is committed to doing  
11 the right thing. It would be helpful to have a  
12 road map, so that when we get to 2026 we're on  
13 track.

14                   MS. WHELAN ENNS: Thank you.

15                   What I was fairly sure I was hearing  
16 yesterday, and again some of what you just said --  
17 and thank you for being thorough this afternoon --  
18 was explored in the technical workshops some of us  
19 were in at the end of January also. What I heard  
20 yesterday in terms of sort of two main takeaways  
21 is what you were referring to now, which is what's  
22 the road map, but also this pattern of  
23 uncertainties in baseline data, studies,  
24 methodology. So does this mean that Manitoba  
25 Hydro is basically rejecting what work was done in

1 the '70s and the '80s in terms of the LWR? I  
2 understand about methods and data not necessarily  
3 being compatible, but do you accept the results of  
4 those studies, the recommendations of those  
5 studies?

6 MR. CORMIE: Well, I think all that  
7 information is valuable. I wouldn't reject it.  
8 The Churchill/Nelson basin board studies, those  
9 studies that were all done at that time were  
10 considered to be state of the art. That's what  
11 science expected.

12 The Environment Act now and the  
13 processes that flow under it associated with new  
14 projects set clear guidelines on what Manitoba  
15 Hydro has to do. And with Wuskwatim and with  
16 Keeyask and with other projects, it's clear to us  
17 what that standard is. It gives the utility the  
18 road map that can be followed. For those legacy  
19 projects that are 40, 50, 80, a hundred years old  
20 when they come up for relicensing, it would also  
21 be useful to be able to know what the expectations  
22 are, so that when we go forward we're on track.  
23 And not having baseline data makes that difficult,  
24 it makes it almost impossible to use the  
25 guidelines that associated with new projects,

1 because with the new project you can go collect  
2 the baseline data, and you can involve the  
3 Aboriginal people and get all that information.  
4 We just don't have that information for the legacy  
5 projects, which makes it more difficult for us to  
6 anticipate what relicensing would look like.

7 MS. WHELAN ENNS: Is this then also  
8 the basis for the comments yesterday, and I think  
9 they were in your summary, about sustainable  
10 development and sustainability, and the difficulty  
11 in responding in terms of this final licence for  
12 the LWR? We're going back to the 1970s, but  
13 sustainable development has been law in Manitoba  
14 since 1989. So you're nodding your head. So this  
15 is the same area of frustration?

16 MR. CORMIE: Well, I think so. You  
17 know, these are -- with regard to Lake Winnipeg  
18 Regulation and Churchill River Diversion, and  
19 other hydroelectric projects built in the '60s and  
20 the '70s, these concepts weren't there. So what  
21 did those concepts mean for relicensing would be  
22 useful to know. We can interpret them ourselves,  
23 Manitoba Hydro's sustainable development policy,  
24 but maybe there's a broader public policy issue as  
25 well. So I don't believe it's in Manitoba

1 Hydro's, or Manitoba's interest that we go forward  
2 without some strong leadership at the Provincial  
3 level of what's expected of the utility. And we  
4 will rise to the expectation. The company will do  
5 the right thing. What gets difficult is when we  
6 assume that we know what expectations are and then  
7 we get into a public process and there isn't an  
8 alignment with what the public is thinking. And  
9 we don't want to be there. We want to reflect  
10 modern values. We want to reflect the values of  
11 everyone, and try and achieve the maximum for all  
12 the people in the province. And that's not just a  
13 utility issue, that's a government issue, and so  
14 leadership at that level would be very valuable  
15 for us as we go forward.

16 MS. WHELAN ENNS: Thank you, and also  
17 public interest issue.

18 I'm finished.

19 THE CHAIRMAN: Actually, Ms. Whelan  
20 Enns, before you leave your chair, I'd like to  
21 turn to your technical questions that you  
22 submitted today.

23 MS. WHELAN ENNS: Sure.

24 THE CHAIRMAN: I think you may have  
25 misunderstood the directive we gave when we asked

1 or suggested that parties wishing to ask or  
2 cross-examine questions of a particularly  
3 technical nature might want to submit them in  
4 advance. This wasn't to be another IR process,  
5 actually it was meant to try and save time and  
6 requirement for undertakings to give Manitoba  
7 Hydro a heads up on what your questions might be.

8 So if you want these questions  
9 answered, you'd better ask them today, like right  
10 now.

11 Now, you have already asked the first  
12 one but I think you should go through some or all  
13 of the rest of these questions.

14 MS. WHELAN ENNS: Certainly. My  
15 corrected understanding is corrected, but my  
16 assumption was that any question that was highly  
17 technical needed to be a written technical  
18 question.

19 THE CHAIRMAN: No. The intention was  
20 to give Manitoba Hydro a heads up that you were  
21 going to ask this question so that they could be  
22 prepared for it. As you know from being a party  
23 in many of our proceedings, that we often end up  
24 with a number of undertakings when the technical  
25 expertise required is not present. We were trying

1 to save a bit of time in that respect. So, please  
2 ask the questions here that you were particularly  
3 concerned about.

4 MS. WHELAN ENNS: Thank you. No  
5 problem being the guinea pig on this new step for  
6 the hearings.

7 So to go back then to the IPCC --

8 THE CHAIRMAN: I think you have asked  
9 that one, so I don't think you need to revisit it.

10 MS. WHELAN ENNS: I asked about the  
11 experts, climate change scientist in Manitoba  
12 Hydro. I did not specifically -- because it was,  
13 I thought, an integral question -- ask about the  
14 inclusion of the fifth assessment results in what  
15 was filed.

16 MR. GAWNE: I believe in the response  
17 to this question, we have addressed this in  
18 Manitoba Wildlands number 7 and Peguis First  
19 Nation number 3, and also in appendix 7, section  
20 3.2.3.

21 MS. WHELAN ENNS: Thank you. And  
22 because there was no second round, I was --

23 THE CHAIRMAN: Well, I think he just  
24 said they have answered it, so please move on to  
25 your next question.

1 MS. WHELAN ENNS: And so then  
2 basically it's a comment from Manitoba Wildlands  
3 that we were, in fact, seeking more than we got  
4 back from round one.

5 The second question here is whether  
6 Manitoba Hydro tracks the volume of water in Lake  
7 Winnipeg, and at what frequency, whether it's also  
8 posted. The second part here about notification  
9 may or may not apply, okay, based on our previous  
10 questions. And the reason for the question has a  
11 little bit to do with the seasonal cycles also.

12 MR. CORMIE: The way the general  
13 public relates to Lake Winnipeg is through  
14 elevation. And it's the imperial measurement,  
15 715, 712. We talked about changing units to  
16 metric units back in the early '80s. And if we  
17 went and talked to the public about Lake Winnipeg  
18 at 213 metres, nobody would know what we are  
19 talking about, but everybody relates to the  
20 elevation. By removing the wind effects from the  
21 measured water levels at the various gauges, the  
22 wind-eliminated level is in effect how much water  
23 is in the lake. And as Mr. Hutchison explained  
24 yesterday through his demonstration of the weather  
25 bomb, and how the north end of the lake was blown

1 down three feet and the south end of the lake went  
2 up five feet, the volume of the lake essentially  
3 stayed the same, which is measured by the  
4 wind-eliminated. So we're not expressing it in  
5 billions of cubic litres, billions of litres or  
6 metric cubic metres, nobody can talk that way. We  
7 have to talk in the language that everybody is  
8 familiar, and that is through the elevation. And  
9 that is how we communicate with the public on what  
10 the volume or the level of the lake is.

11 MS. WHELAN ENNS: Thank you.

12 Number 3, some of which has been  
13 answered, probably remains a partial question then  
14 in terms of methodologies, and your forecasting  
15 services and their products. When you have this  
16 pattern of posting now, access because of the  
17 Internet -- and I have looked at this online but I  
18 can't remember -- are you providing an explanation  
19 in terms of your methods to write forecasts?

20 MR. CORMIE: No, we don't provide  
21 those on the website. But I can say that these  
22 forecasts are ones that we generate through our  
23 computer models, and to the extent that other  
24 agencies are providing us with forecasts, we rely  
25 on those. For example, Water Stewardship each

1 year does extensive modeling and coordinates with  
2 the U.S. Army Corps of Engineers on what the  
3 volume of water coming down the Red River will be.  
4 So rather than Manitoba Hydro duplicating that  
5 effort, we use these other agencies' forecasts  
6 because they are experts in those watersheds, and  
7 we will incorporate them. And so there's a lot of  
8 cross agency coordination with regard to the  
9 forecasts, and we build that in.

10 If there's something else, Mr. Gawne  
11 might be able to answer for you.

12 MR. GAWNE: Yeah, if I can add to  
13 that. A lot of the inflows into Lake Winnipeg, as  
14 we were discussing yesterday, is regulated  
15 inflows, like regulated upstream of the provincial  
16 borders of Manitoba. So we do obtain forecasts  
17 from agencies such as the Lake of the Woods  
18 Control Board, responsible for regulating flows on  
19 the Winnipeg River, agencies upstream on the  
20 Saskatchewan River, Saskatchewan Water Security  
21 Agency. So the forecasts into Lake Winnipeg that  
22 are used in operations are, as Mr. Cormie was  
23 explaining, a hybrid of sources for information.

24 MS. WHELAN ENNS: Thank you.

25 I believe that the previous questions

1 probably covered number 4, in terms of the process  
2 we're in today. But I do want to ask whether you  
3 measure -- and I remember what we have heard about  
4 ice in relation to the inflow -- the outflow to  
5 the lake. Manitoba Hydro, do you measure the ice  
6 cover on the lake?

7 MR. CORMIE: I believe there was an IR  
8 with that question, it was asked. And I believe  
9 the answer is we do not measure the ice thickness  
10 on Lake Winnipeg. It's not an issue that we need  
11 to worry about. We need to know about ice  
12 thickness in the outlet channels because it  
13 determines the outflow capability. But the lake  
14 proper, it's not something that we are monitoring.

15 MS. WHELAN ENNS: Thank you. Given  
16 these are no longer written technical questions,  
17 we have dealt with five.

18 Number 6, the Canada water survey  
19 gauges, and the data is online. We have no gauges  
20 to speak of on the west wall of Lake Winnipeg. In  
21 the filings and the conclusions in terms of the  
22 different sections, or different technical  
23 reports, and in the schedules, there are  
24 combinations of data from different gauges used in  
25 arriving at content on different issues about the

1 lake. This is just a general comment but it's  
2 quite evident in the climate report. The  
3 requirement under your licence is for the mean  
4 level, and you take that from only certain of the  
5 gauges on the water -- on the lake. Is that a  
6 correct statement?

7 MR. CORMIE: Manitoba Hydro uses all  
8 the water level data information that's available  
9 in order to determine the wind-eliminated level.  
10 A good way to view this is, in the winter time  
11 when there's an ice cover on the lake, wind  
12 effects don't exist. It doesn't matter what gauge  
13 you look at, whether it's Victoria Beach, Gimli,  
14 Matheson Island, George Island, Mission Point,  
15 Montreal Point, they all read the same. And  
16 adding more gauges won't change that, they will  
17 all read 714.4, because the wind effects are not  
18 there. The problem in the summer time is that  
19 some gauges are going up and some gauges go down  
20 because they are being blown around. So we use a  
21 weighted average of those gauges. Some gauges  
22 have more information in them than others. A  
23 gauge that is hardly affected by wind has the most  
24 information. And let's say that there was a gauge  
25 that it didn't matter which way the wind blew, it

1 read exactly that perfect level of the lake. And  
2 so that gauge would get a lot of weight. Gauges  
3 in the south basin, like at Victoria Beach, they  
4 go up and down, fluctuate two, three, five feet.  
5 There's not a lot of information in there because  
6 you never -- well, it's fluctuating. Those gauges  
7 have very little weight. So the weighting  
8 mechanism that we use to determine the  
9 wind-eliminated level recognizes how much  
10 information is in the gauge. And adding more  
11 gauges that are subject to wind doesn't add a lot  
12 to the answer. We believe that the combination of  
13 gauges that we have now provides a relatively  
14 smooth water level indication. What is the volume  
15 of the lake at that time. And really the only  
16 time that's relevant from the purposes of the  
17 licence is if you are getting close to 715. If  
18 the wind-eliminated level is 714, well, you know,  
19 why is that relevant? It's not a trigger point.  
20 The question is, is it at 715? The way the  
21 wind-eliminated level is calculated is only useful  
22 after the fact, because it takes 11 days for us to  
23 do all the smoothing that that algorithm requires.  
24 So wind-eliminated level is only, it's relatively  
25 academic because it's only available after the

1 fact, after all the gauge information is  
2 available.

3           So the other point, and Mr. Gawne  
4 talked about this, we don't wait until the  
5 wind-eliminated level is at 715 to have maximum  
6 discharge. We anticipate that we're going to get  
7 there and we put in place an orderly increase in  
8 outflow, so that when we do cross the 715  
9 threshold, we are already at maximum discharge,  
10 and probably we're at maximum discharge before  
11 that. So having the wind-eliminated level exactly  
12 represent 714.999, we don't regulate to that. We  
13 regulate to what makes good sense, provides a safe  
14 environment for the public and manages the lake in  
15 a responsible manner. It's not triggered by the  
16 accuracy of the data, it's much more sensitive to  
17 the impacts, and very less sensitive to the  
18 precision that might be implied by adding more and  
19 more gauges to the calculation.

20           MS. WHELAN ENNS: You mentioned extra  
21 steps in terms of smoothing the data from the  
22 south basin gauges. Does the same apply to the  
23 gauges that are at the Narrows?

24           MR. CORMIE: Well, the gauges at the  
25 Narrows, for example, Berens River is a very good

1 gauge. It's actually the official location of the  
2 data at the Lake Winnipeg Regulation. If you want  
3 to know where 715 is, it's 715 at the Berens River  
4 gauge. That's the datum that is applied across  
5 the lake as a whole. All other gauges are really  
6 relative to that gauge.

7 MS. WHELAN ENNS: And hence my  
8 reference to primary gauges. I'm aware of what  
9 you're saying about the Berens River. I was  
10 asking about Matheson Island and Pine Dock.

11 MR. CORMIE: Those are included when  
12 that data is available. And not all gauges work  
13 all the time, there are periods of time when  
14 gauges aren't available in real time, and we may  
15 have a subset of the gauges that are available.

16 MS. WHELAN ENNS: Is Manitoba Hydro  
17 participating in or supporting financially the  
18 work out of the University of Winnipeg in terms of  
19 all the meteorological precipitation and water  
20 gauges in the province?

21 MR. CORMIE: I'm unaware of the  
22 activities at the University of Winnipeg.

23 MS. WHELAN ENNS: This is Dr. Danny  
24 Blair's team, and I couldn't remember whether  
25 Manitoba Hydro is on the publication.

1 I'm finished. Thank you, Mr. Chair.

2 THE CHAIRMAN: Thank you,  
3 Ms. Whelan Enns. I'm going to propose we take a  
4 short break of about seven or eight minutes to  
5 2:30, while we sort out who's next on the  
6 cross-examination list, and also so I can get away  
7 from this frigid draft that's blowing down my head  
8 and back.

9 (Proceedings recessed at 2:23 p.m. and  
10 reconvened at 2:32 p.m.)

11 THE CHAIRMAN: We'll proceed with  
12 Manitoba Metis Federation. Please introduce  
13 yourself for the record and then proceed.

14 MS. RIEL: Good afternoon, I'm Marci  
15 Riel. So I would like to start this afternoon by  
16 thanking Mr. Chair for your opening comments  
17 yesterday. The Manitoba Metis Federation  
18 appreciates your recognition of the homeland of  
19 the Metis Nation.

20 Mr. Sweeney, you spent a significant  
21 amount of time yesterday outlining the process  
22 under which Manitoba Hydro engages with the  
23 Aboriginal community. Can you please provide for  
24 the record a list of communities with which you  
25 have engaged as it relates to the project and the

1 application for a final licence?

2 MR. SWEENEY: Can you just ask that  
3 question once more, please?

4 MS. RIEL: I'm just looking for you to  
5 provide us with a list of the communities with  
6 which you have engaged?

7 MR. SWEENEY: Can you elaborate on your  
8 engagement comment, please?

9 MS. RIEL: Specifically, you spent  
10 essentially the bulk of your time yesterday  
11 outlining Manitoba Hydro's engagement with the  
12 Aboriginal community. I'm looking for you to tell  
13 us which Aboriginal communities you are referring  
14 to?

15 MR. SWEENEY: So that would be, there  
16 would be Cross Lake First Nation, the Incorporated  
17 Community Council of Cross Lake, Thicket Portage,  
18 Pikwitonei, Norway House Cree Nation, Norway House  
19 Community Councils, Split Lake First Nation, York  
20 Landing First Nation, and Wabowden.

21 MS. RIEL: Thank you. So following up  
22 on that, is it possible, can you provide us, or  
23 anyone else from the panel, with Manitoba Hydro's  
24 working definition of Aboriginal.

25 MR. HUTCHISON: We go to the

1 Constitution Act of 1982 which defines Aboriginal  
2 as First Nations, Metis or Inuit.

3 MS. RIEL: Perfect, thank you. So you  
4 are aware that the Manitoba Metis Federation  
5 represents the Metis Nation's Manitoba Metis  
6 community?

7 MR. SWEENEY: Yes.

8 MS. RIEL: And you are also aware that  
9 as Aboriginal people, our community have the right  
10 to harvest throughout the Province of Manitoba?

11 MR. HUTCHISON: Yes, I believe so.

12 MS. RIEL: Although included in  
13 neither the NFA nor supplementary agreements you  
14 referenced yesterday, are you aware that the  
15 citizens of the Manitoba Metis community have  
16 experienced and continue to experience many of the  
17 same impacts outlined?

18 MR. SWEENEY: Yes.

19 MS. RIEL: Would you be aware of that  
20 based on engagement?

21 MR. SWEENEY: Yes.

22 MS. RIEL: So would you like to  
23 reference that engagement in your earlier answer?

24 MR. SWEENEY: What I was referring to  
25 in regards to engagement is the many agreements

1 that we negotiated or we have had discussions with  
2 several of these communities impacted by adverse  
3 effects of LWR. We have engaged the people  
4 impacted. So in some cases they are members of a  
5 First Nation. In other areas we have discussed  
6 and negotiated agreements that relate to Northern  
7 Affairs communities. In some of those places  
8 there are individual members, or members, may very  
9 well have been members of the Metis. In other  
10 areas we have negotiated agreements and engaged  
11 with residents impacted in our resource harvesting  
12 agreements. And again, there is engagements to  
13 those processes through a long period of time.

14 MS. RIEL: Just to clarify, the  
15 engagement that you were speaking of yesterday,  
16 and then that you are referencing today is  
17 specific only to communities with which you have  
18 an agreement?

19 MR. SWEENEY: No, it's specific to the  
20 communities and the impacted individuals that have  
21 been impacted.

22 MS. RIEL: Okay.

23 MR. HUTCHISON: Sorry, I'd like to  
24 jump in, if I might, as well. Because on Lake  
25 Winnipeg, there has been additional engagement

1 with communities that are all around Lake  
2 Winnipeg, many of which would be considered Metis  
3 communities.

4 MS. RIEL: Mr. Chair, if I may? So  
5 just a reminder that the Manitoba Metis community  
6 is one community, they are not several Metis  
7 communities.

8 So, for example, just following up on  
9 what you're saying here, you are aware that at  
10 recent CEC hearings, whether it's Bipole III or  
11 Keeyask, in fact at both we did bring forward a  
12 panel of citizens of the Manitoba Metis community  
13 to identify some impacts of various Hydro  
14 projects. And specifically at the Keeyask hearing  
15 there was a gentleman who referenced his  
16 generational use of Sipiwesk Lake. I guess my  
17 question is, given the fact that that was part of  
18 the hearing and certainly forms part of the  
19 record, and that Manitoba Hydro is fully aware of  
20 those impacts, where are your thoughts with  
21 relation to identifying, or failing to identify  
22 those people as being impacted by the project?

23 MR. SWEENEY: First of all, I disagree  
24 with your assertion that we failed to identify  
25 this individual. Impacts on Sipiwesk Lake, we

1 have negotiated with various stakeholders in that  
2 area, including people that utilize the Sipiwesk  
3 Lake for resource harvesting and for commercial  
4 use, and we have addressed those through our  
5 various agreements.

6 MS. RIEL: You have provided a  
7 multitude of examples of compensation programs,  
8 engagement reference, mitigation processes, annual  
9 consultation plans designed specifically for First  
10 Nations people. Can you provide me with an  
11 example of the same or similar process  
12 specifically for the Manitoba Metis community?

13 MR. HUTCHISON: I'd like to say that  
14 Manitoba Hydro's approach to dealing with adverse  
15 effects is to deal with the elected leadership of  
16 the communities that are in the impacted area. So  
17 in that regard, where there were impacts, we would  
18 have dealt with the leadership of the community,  
19 whether it was the Chief and Council or the Mayor  
20 and Council.

21 MS. RIEL: Thank you.

22 On slide 115, you reference Manitoba  
23 Hydro working together with the Aboriginal  
24 community to address Lake Winnipeg Regulation  
25 impacts through programming and agreements

1 specific to those who live and work along the  
2 Nelson River.

3 Can you please provide for the record  
4 an example of Manitoba Hydro and the MMF working  
5 together for the benefit of the citizens of the  
6 Manitoba Metis community who also live and work  
7 along the Nelson River?

8 MR. HUTCHISON: I can't identify any  
9 examples but, as I mentioned, we do work with the  
10 elected representatives of the impacted  
11 communities, and to the degree that they would  
12 choose to involve the MMF central office, that  
13 would be at their discretion. When we enter into  
14 negotiation agreements, these communities decide  
15 who they would like to represent them, we have  
16 lawyers, consultants, that sort of thing.

17 MS. RIEL: On slide 116 you reference  
18 several communities in the downstream area,  
19 including First Nations and Northern Affairs  
20 communities. You are aware that the MMF  
21 represents these citizens living in many of these  
22 same communities?

23 MR. HUTCHISON: We're not aware that  
24 they would represent all the Metis in these  
25 communities.

1 MS. RIEL: Thank you. And that  
2 although you have programs in place to consider  
3 and mitigate the impacts of Lake Winnipeg  
4 Regulation on the communities identified, the  
5 citizens of the MMF really similarly impacted by  
6 the project but are not being included in the  
7 compensation and benefit process.

8 MR. HUTCHISON: Can you repeat that a  
9 little slower?

10 MS. RIEL: Certainly. So following up  
11 on your comment, that although you have programs  
12 in place to consider and mitigate the impacts of  
13 Lake Winnipeg Regulation on the communities  
14 identified, the citizens of the MMF are similarly  
15 impacted by the project but are not being included  
16 in the compensation and benefit process.

17 MR. HUTCHISON: Okay. As I mentioned,  
18 we work with the elected representatives of the  
19 communities that are impacted. In some ways, it  
20 sounds more like an issue between the MMF and  
21 their local offices. But to the degree that Metis  
22 people would use areas in the impacted waterways,  
23 mitigation and other programming that is done on  
24 those waterways, they would have the benefit of  
25 that. So, for instance, a lot of the programs

1 that Mr. Sweeney mentioned yesterday.

2 MR. SWEENEY: I'd also like to just add  
3 there, if there is a Metis individual or a person  
4 taking activities related to resource harvesting,  
5 those individuals likely would have been  
6 represented in the various adverse effects  
7 agreements we had with the resource harvester  
8 groups, such as the trappers associations and  
9 fishers.

10 MS. RIEL: Thank you.

11 MR. SWEENEY: And I just want to also  
12 state that I am not aware of anyone who has not  
13 been properly addressed, that's been impacted, at  
14 this time that's been impacted by LWR.

15 MS. RIEL: On slide 118, you reference  
16 an understanding of impacts and how to address  
17 these impacts, as informed by a long history of  
18 communication with First Nations, northern  
19 communities and groups.

20 Can you please provide some clarity as  
21 to whom you are referring and what type of  
22 information you have collected on these impacts?

23 MR. SWEENEY: Your first question,  
24 could you repeat that, please?

25 MS. RIEL: To whom are you referring

1 when you say First Nations, northern communities  
2 and groups?

3 MR. SWEENEY: I'm referring to, again,  
4 the Cross Lake First Nation, Norway House First  
5 Nation, Split Lake First Nation, York Landing  
6 First Nation, and the Northern Affairs  
7 communities, the Cross Lake Community Council,  
8 Norway House Community Councils, Ilford, War Lake  
9 and Wabowden.

10 MS. RIEL: Thank you. And so the  
11 information you collected from those First  
12 Nations, northern communities and groups, was it  
13 brought forward through a process under which, for  
14 example, traditional knowledge was collected, and  
15 impact assessments were done, or how would you  
16 characterize the process by which you collected  
17 that information?

18 MR. SWEENEY: Well, I think the  
19 information was taken over time, so the engagement  
20 with -- like not getting specific here, but  
21 engagements with communities have been taken over  
22 since the project since 1976. So it's been  
23 through community visits, negotiations,  
24 agreements, those types of processes, that's been  
25 ongoing since 1976.

1 MS. RIEL: Thank you.

2 On slide 126, you reference agreements  
3 with various resource user groups. Can you  
4 provide us, for the record, a list of resource  
5 user groups to which you refer?

6 MR. SWEENEY: That would be a number of  
7 trapping and fishing associations that are tied to  
8 these communities. That would be, so Thicket  
9 Portage would have the trappers association,  
10 Pikwitonei would have trapper and fishing  
11 associations. Cross Lake First Nation would have  
12 the Cross Lake Trappers Association, along with  
13 the Cross Lake Fishers Association. Norway House  
14 would have a fishing association. So it varies in  
15 different communities, but that's also been part  
16 of where we get our information from as well, our  
17 understanding of some of the impacts and some of  
18 the solutions that are tied to those various  
19 engagement processes with the various people that  
20 have been impacted. And I understand some of them  
21 also included Metis individuals.

22 MS. RIEL: Thank you. On slide 139,  
23 you reference loss of land due to shoreline  
24 erosion. Can you confirm the process for which  
25 you determine the environmentally sensitive sites

1 you referenced, such as burial sites?

2 MR. SWEENEY: Some of the information  
3 comes from the Historical Resource Branch that  
4 identifies certain areas. Other areas are  
5 identified by community leadership, including the  
6 First Nations that live in those communities.

7 MS. RIEL: Thank you. Can you confirm  
8 the process, following up on that, can you confirm  
9 the process by which you identify and communicate  
10 the results of the monitoring you are referring  
11 to?

12 MR. HUTCHISON: As far as the  
13 Historical Resources Branch of the Province, who  
14 monitor this, the archeological programming  
15 arrangements with them, they do the monitoring,  
16 and they have a process by which they figure out  
17 which is the ancestral community that they should  
18 be working with to deal with a particular site.  
19 Does that answer your question?

20 MS. RIEL: Yes, it does. Thank you.  
21 That's all I have.

22 THE CHAIRMAN: Thank you, Ms. Riel.

23 MR. SWEENEY: I would like to just add,  
24 before Ms. Riel leaves, a lot of engagement also  
25 goes with a lot of the ongoing programming that we

1 have through our Waterways Management Program,  
2 through our safe trail monitoring program. So a  
3 lot of the engagement with a lot of these  
4 communities that are impacted by adverse effects  
5 of LWR are communicating in those processes. We  
6 also have many people that work that are from  
7 these areas that also have engaged with community  
8 members as well on the ongoing monitoring.

9 MS. RIEL: Thank you.

10 THE CHAIRMAN: Thank you. Next I  
11 believe is the Interlake Reserves Tribal Council.

12 MR. SHEFMAN: Thank you, Mr. Chair.  
13 It's Cory Shefman, I represent the Interlake  
14 Reserves Tribal Council. Thank you for having us  
15 today, and thank you to all of the Commission  
16 members for facilitating this important  
17 proceeding. I'd like to thank Hydro as well, and  
18 the experts and engineers from Hydro who have  
19 taken the time to increase our knowledge about the  
20 issues that we're here to discuss.

21 I have a number of questions, some  
22 directed at specific members of the panel and some  
23 directed at the panel as a whole. So I trust that  
24 you'll answer them as you see fit.

25 I'm going to begin, Mr. Gawne and

1 Mr. Hutchison, I explained yesterday that recent  
2 floods and high inflows are a result of a  
3 sustained wet period, which at this point has  
4 lasted for 10 years. Apparently the flows are up  
5 to 37 percent higher than they have been. The  
6 implication that I took from this, and feel free  
7 to correct me, is that this was an aberration in  
8 the normal cycle of drier and wetter periods. Is  
9 that correct?

10 MR. GAWNE: I wouldn't say that's  
11 necessarily correct. It's clear that we're in a  
12 wet cycle, where we have experienced wet cycle,  
13 and there are long low frequency cycles that  
14 happen in hydrology. So the fact that we have  
15 gone through multiple years in a row with above  
16 average water conditions is not unheard of.

17 It is, from our record from 1915, we  
18 are approaching new terrain in terms of the  
19 duration of the cycle. So we have had 10 plus  
20 years of above average water, overall water supply  
21 conditions. And prior to that, I think we were in  
22 the range of about six years in a row where we  
23 would have average to above average flows.

24 MR. SHEFMAN: So it is longer than  
25 we're used to?

1 MR. GAWNE: No, there's climate cycles  
2 and there's cycles in the hydrology into the  
3 Manitoba Hydro system. It's the longest cycle we  
4 have experienced since 1915.

5 MR. SHEFMAN: Thank you.

6 Does Manitoba Hydro have any modeling  
7 which will predict or which predicts how long this  
8 wet period is going to last, and what implications  
9 its end or its continuation will have on Lake  
10 Winnipeg Regulation system?

11 MR. CORMIE: No, we don't have models,  
12 we really don't have a long enough historical  
13 record to know. You've seen this happen a dozen  
14 times in the past and now you can predict it with  
15 some degree of confidence. Our record is short,  
16 even though we're very fortunate that we have a  
17 hundred year record, but when you have water  
18 cycles that are 20 years in duration, 100 years is  
19 not long enough to see a pattern there. Some  
20 suggest it's tied to sun spot cycles which has,  
21 you know, it's around 11 year cycle. There may be  
22 something to that. There are other things in the  
23 energy cycle of the earth, associated with the  
24 tilt of the axis and all those other factors, that  
25 create cyclical patterns in the climate. We

1 haven't been able to explain that as a basis of,  
2 and use it to be able to predict what's going to  
3 happen.

4 We know that in the middle of high  
5 water periods, low water years do occur. If you  
6 look through the record, high water, high water,  
7 high water, and out of the blue you have a very  
8 low water year, like what happened in 2002, 2003  
9 and 2004, a near record drought. And then it  
10 carries on again. And so it is not predictable.

11 MR. SHEFMAN: You have given us a  
12 number of possible causes of this wet cycle. One  
13 of the things you didn't mention, and I'm curious  
14 whether it may be a factor, is climate change. Is  
15 it possible that climate change, as we commonly  
16 use that term, is responsible in whole or in part  
17 for the wet cycle that we're seeing?

18 MR. CORMIE: Well, we know climate  
19 change is a reality. But when you look through  
20 the historic record of water supply on the Nelson  
21 River, it's not that obvious. And it's because  
22 the gradual changes that we're expecting are very  
23 subtle compared to the wild swings that occur from  
24 year to year just because of the normal variation  
25 in the prairie hydrology. It would only be well

1 after the fact, you could look back, you know, if  
2 we had two or three hundred years of records, you  
3 could see that change occurring.

4           When we look at individual rivers,  
5 it's a little bit more apparent. But when you  
6 look at the totality of the water supplied on Lake  
7 Winnipeg, if it's there at all, it's very subtle,  
8 it's not obvious. And I think what we see in the  
9 record is the weather, the climate, it's hard to  
10 tell that the climate record isn't stationary.  
11 Science tells us that it is changing, but you  
12 wouldn't get that just by looking at the record  
13 itself. You'd have to understand the physics and  
14 the science behind climate change, and how the  
15 atmosphere is changing as a result of the carbon  
16 content. And then we can start using that to look  
17 at what would likely be in 2050, 2080, and that's  
18 where the global climate models come in and help  
19 inform us on what's going to happen in the future.  
20 But all the very subtle changes that are occurring  
21 are masked to the historic record.

22           MR. HUTCHISON: I'd just like to  
23 clarify, I believe you said that it wasn't  
24 referenced yesterday in the presentations?

25           MR. SHEFMAN: No, I said it was.

1 MR. HUTCHISON: Oh, it was. Thank  
2 you.

3 MR. GAWNE: If I can just briefly add  
4 to that, Mr. Shefman. I believe it was in IR CAC  
5 14, where it's stated that in general, short-term  
6 climate change projections are dominated by  
7 natural climate variability, and the climate  
8 change signal becomes more apparent over longer  
9 term horizons. So this goes to Mr. Cormie's  
10 comment about the actual, the cause of the cycles  
11 is not exactly known.

12 MR. SHEFMAN: Thank you.

13 One of the purposes of Lake Winnipeg  
14 Regulation, as we have heard, was flood  
15 mitigation. The fact that Lake Winnipeg  
16 Regulation has lowered peak water levels, I submit  
17 to you, is less relevant than the question of  
18 whether floods continue to increase in frequency  
19 and severity. The reports of those actually  
20 living in the area confirm that floods are getting  
21 worse. Rather than simply taking the position  
22 that flooding isn't Manitoba Hydro's fault, what  
23 consideration has Manitoba Hydro given to how to  
24 utilize Lake Winnipeg Regulation to further  
25 mitigate and prevent flooding?

1 MR. CORMIE: Well, Manitoba Hydro does  
2 not control the weather. It's not driving climate  
3 change. It is not causing the floods. Like every  
4 other interest in the province, we can only deal  
5 with them after they occur. I believe that  
6 Manitoba Hydro is doing everything possible to  
7 mitigate the flood levels on Lake Winnipeg through  
8 its actions of regulation. To the extent that  
9 more needs to be done, that's not within our  
10 mandate. There would have to be some additional  
11 works constructed to help reduce the magnitude of  
12 flooding. But we're not here talking about that.  
13 We're talking about how we operate under the  
14 existing licence, the existing facilities and the  
15 impacts associated with that. And it's clear to  
16 us, as it is to all other Manitobans, that this  
17 period of wet is having dramatic impacts on them  
18 and their homes and their farms and, you know,  
19 especially those people in the Interlake who have  
20 gone for many years with sodden fields.

21 You know, we watch TV and see those  
22 impacts. We wish that we could be able to help  
23 with those impacts, but it's not something that  
24 the Lake Winnipeg Regulation project was ever  
25 designed to help with. We have increased with the

1 outflow capability of the lake by 50 percent. We  
2 believe that we're having significant, providing a  
3 significant benefit, but we can't make the floods  
4 go away. And the same way we can't deal with  
5 whether events like the weather bomb in 2010,  
6 where unprecedented storms occur on the lake.  
7 Those are mother nature, and I believe that we  
8 have to adapt, but Manitoba Hydro is doing  
9 everything it can now to minimize those impacts.

10 MR. SHEFMAN: And as I said in the  
11 introduction to my question, I'm not concerned,  
12 with respect to this question at least, whether or  
13 not the peak water levels have lowered under Lake  
14 Winnipeg Regulation. For the purpose of this  
15 question, I accept that they have. But am I  
16 correct in understanding that it's Manitoba  
17 Hydro's position that Manitoba Hydro has done and  
18 is doing everything it can and everything it is  
19 obligated to do to mitigate flooding on Lake  
20 Winnipeg, in the context of flood mitigation being  
21 one of the purposes of Lake Winnipeg Regulation?

22 MR. CORMIE: I believe we are  
23 complying with our obligations under our licence.  
24 And I think we're fulfilling that as required by  
25 that licence.

1 MR. SHEFMAN: Now, you had just said  
2 previously that Manitoba Hydro is doing everything  
3 it can do. Is that no longer what you're saying?

4 MR. CORMIE: I'm saying we are  
5 complying with the licence with regard to flood  
6 control.

7 MR. SHEFMAN: Thank you.

8 MR. GAWNE: Perhaps I can add to  
9 Mr. Cormie's response. And this discussion  
10 occurred earlier, but the flood control benefit  
11 that Lake Winnipeg Regulation provides is largely  
12 tied to the requirement to go to maximum discharge  
13 when levels reach 715 feet. But as Mr. Cormie  
14 explained earlier, when we see these major events,  
15 floods for instance, we referred to the flooding  
16 in Alberta, Manitoba Hydro is operating Lake  
17 Winnipeg Regulation to transition outflows, to  
18 increase outflows to manage the floods, balancing  
19 the effects downstream and upstream. So we are  
20 operating, to the extent we can, to manage the  
21 floods coming into Lake Winnipeg, and essentially  
22 increasing flows before we have to by licence.  
23 And what that does is it reduces the peak level on  
24 Lake Winnipeg, it reduces the duration of maximum  
25 discharge operation, which in turn releases the

1 maximum discharge effects downstream of Lake  
2 Winnipeg. So I think we're going beyond the  
3 minimum requirement, let's say, by the licence,  
4 and we are looking at those floods coming in and  
5 attempting to manage those floods.

6 MR. SHEFMAN: Thank you.

7 And I apologize if I pronounce your  
8 name wrong, but in the context of the protection  
9 of the Netley-Libau marsh, Mr. Gawne discussed why  
10 Hydro can't keep lake levels as low as some might  
11 like. I take it the same reasons apply for why  
12 Manitoba Hydro can't keep lake levels low in the  
13 interests of flood mitigation? Would that be a  
14 correct assumption?

15 MR. GAWNE: If flood mitigation were  
16 the only -- in any reservoir, if you wanted to  
17 have that reservoir set up to accept any flood,  
18 you would try and have that reservoir as low as  
19 possible all the time.

20 MR. SHEFMAN: Maybe clarify?

21 MR. GAWNE: So as inflows pick up,  
22 there's room for that water to be contained in the  
23 reservoir. However, as we said, to drain Lake  
24 Winnipeg, it's not possible under high flows. The  
25 hydraulics of the outlets don't allow for that.

1 So if inflows are high, lake levels will rise  
2 until they balance with inflows -- until the  
3 outflow balances with inflows. And if under low  
4 inflows, Manitoba Hydro operated Lake Winnipeg  
5 Regulation to draw Lake Winnipeg as low as  
6 possible, then we would no longer have that  
7 storage available to achieve that balance in  
8 electrical supply and demand. And that's when the  
9 reliability concern comes in.

10 MR. SHEFMAN: Speaking specifically  
11 about the low level keeping Lake Winnipeg low,  
12 under low inflow conditions, I believe the  
13 language used was that it would risk devastating  
14 consequences, including brown outs and prolonged  
15 outages. Is that an accurate description of the  
16 evidence that was given?

17 MR. CORMIE: Yes. If we operated the  
18 project solely for flood control, i.e. being at  
19 maximum discharge all the time, half the winters  
20 there would be an inadequate supply of electricity  
21 for Manitobans and the lights would go out. That  
22 would be devastating. Can you imagine going  
23 through a winter, minus 30, and there is not  
24 enough supply to keep this province going? That  
25 would be devastating.

1 MR. SHEFMAN: Sorry, was it your  
2 evidence that it was 100 percent certainty that  
3 during the winter Manitoba would go without power  
4 under those conditions?

5 MR. CORMIE: Half the time. So there  
6 would be those years when, even though they were  
7 at maximum discharge, there would still be an  
8 adequate supply of electricity in the high flow  
9 years. In the low flow years, when water flows  
10 are below average, there would be an inadequate  
11 supply of electricity, and we would be negligent  
12 in meeting our obligation to supply the province  
13 with an adequate supply of power. The electric  
14 system in Manitoba is not designed for Lake  
15 Winnipeg Regulation to operate solely as a flood  
16 control project.

17 MR. SHEFMAN: Can you tell us at what  
18 sustained average water level those events would  
19 take place? Is it 714, 711, 710?

20 MR. CORMIE: I suspect that if the  
21 water level on Lake Winnipeg in the winter were  
22 below something around 711 and half, that the  
23 power supply for the province would be put at  
24 risk. So to have the level down at 709, there may  
25 be some water leaving the lake, but it would be

1 very low, and the generating stations downstream  
2 would have an inadequate supply of water. We  
3 would have to -- in spite of the interconnections  
4 that Mr. Gawne talked about, if we can buy as much  
5 as we can, there would still be inadequate supply  
6 for the province.

7 MR. SHEFMAN: When we talk about  
8 inadequate supply and we talk about these  
9 devastating consequences, are you referring to  
10 actual deficit in supply, or are you referring to  
11 a draw-down on the 12 percent power reserves that  
12 Manitoba Hydro keeps?

13 MR. CORMIE: No, we would have run out  
14 of reserve, we would be curtailing half -- half of  
15 the customers in Manitoba would go without  
16 electricity, and they would go without electricity  
17 half the time over the winter, as we rotate the  
18 available supplies to meet the available demand.  
19 It is not something that is acceptable.

20 MR. SHEFMAN: Given the impact that  
21 the water level has on communities, wildlife and  
22 other interests, and given what you have just told  
23 us that Lake Winnipeg Regulation can't be operated  
24 solely for flood control, what has Manitoba Hydro  
25 done to diversify the sources of electricity it

1 uses to satisfy domestic demand? Why isn't more  
2 emphasis being placed on demand-side management  
3 and diversification so that some reduction may be  
4 affected?

5 MR. CORMIE: Well, Manitoba Hydro has  
6 planned the development of the Nelson River, and  
7 it's predicated those plans on having four feet of  
8 storage available in Lake Winnipeg. We haven't  
9 developed plans based on any other assumption. We  
10 have based those plans on the licence that we have  
11 and the expectation on a go-forward basis that we  
12 will continue to have that storage available. And  
13 on that basis, we continue to develop as needed to  
14 meet our planning criteria.

15 You are asking me a theoretical  
16 question that we need to plan for the operation of  
17 Lake Winnipeg not as a power reservoir. That's  
18 not something that we have considered. It would  
19 in a sense walk away from the entire investment  
20 that the province has made in hydroelectric  
21 development of the Nelson River, force us to go to  
22 other technologies. And I think that would be a  
23 very serious decision to make. And we are  
24 investing in demand-side management, we are  
25 investing in transmission lines to neighboring

1 jurisdictions to increase the reliability of  
2 supply. We have some gas turbines on the system,  
3 and we have invested in wind technology in the  
4 province. But the primary supply of electricity  
5 is from the Nelson River, developed downstream of  
6 Lake Winnipeg, and Lake Winnipeg is the key  
7 reservoir for making that investment possible.  
8 And we have no plans to deviate from that as a  
9 source for the majority of the supply of  
10 electricity in the province.

11 MR. SHEFMAN: Thank you for your  
12 answer.

13 Moving on, Mr. Swanson explained  
14 during his evidence that a combination of limited  
15 data and other factors make it impossible to tell  
16 how Lake Winnipeg Regulation has impacted wildlife  
17 populations. Is that an accurate description of  
18 the evidence that you presented?

19 MR. SWANSON: Yes.

20 MR. SHEFMAN: Given Manitoba Hydro's  
21 commitment to sustainability, which we also heard  
22 about, is Manitoba Hydro satisfied with that  
23 conclusion?

24 MR. SWANSON: Are you asking if  
25 there's --

1 MR. SHEFMAN: Is it good enough?

2 MR. SWANSON: Is it good enough? I  
3 would say that it's a summary of the information  
4 that was available. That was the task before us.  
5 The information, a lot of it came from site  
6 specific, issue specific studies as part of the  
7 conversations that were going on with various  
8 interested communities. So it's a representation  
9 of the information that was available. And in  
10 that regard, I would say it's as good as it can  
11 be, looking at that.

12 MR. SHEFMAN: So would you agree with  
13 me then that while we -- that while you may not be  
14 able to at this point quantify the impact, Lake  
15 Winnipeg Regulation has indeed had some impact on  
16 wildlife in and around Lake Winnipeg.

17 MR. SWANSON: Well, my presentation  
18 was speaking to the effects downstream, not to  
19 Lake Winnipeg proper and the shorelines around  
20 Lake Winnipeg. So in reference to Lake Winnipeg,  
21 that wasn't part of that comment.

22 MR. SHEFMAN: In that case, perhaps  
23 somebody can speak to my question about upstream  
24 effects?

25 MR. HUTCHISON: If we're talking about

1 upstream effects, the main effect is a reduction  
2 in the higher water levels. And I don't believe  
3 we can suggest that that's had any impact on  
4 wildlife on Lake Winnipeg.

5 MR. SWANSON: Maybe I could add to  
6 that? There was an IR, I can't remember which one  
7 it was, that asked specifically about shoreline  
8 effects on Lake Winnipeg. And the context was,  
9 with the reduction in water level there would have  
10 been less impact to the shoreline that would be  
11 affecting the various species, the user of  
12 riparian zones and water edge. So in a very  
13 general sense, there was a statement to that  
14 effect, but that's as much as we have.

15 MR. SHEFMAN: All right.

16 Moving on, it's my understanding that  
17 when we're talking about LWR between 711 and  
18 715 feet, we're always talking about  
19 wind-eliminated measurements. Is that correct?

20 MR. CORMIE: Yes, that's correct.

21 MR. SHEFMAN: Thank you.

22 While the value of such a measurement  
23 for the purpose of determining water supply and  
24 flow needs is self-evident, can you explain how  
25 using wind-eliminated measurements assists, if it

1 does, with flood mitigation, given that according  
2 to the Manitoba Hydro document at page 75, wind  
3 cannot cause actual local water levels of up to  
4 five feet higher in a matter of hours?

5 MR. CORMIE: Yeah. So if you were to  
6 think the alternative would be to follow, or  
7 regulate around a wind level, the first problem  
8 you would have is which wind level? Do you use  
9 the level at Mission Point? Do you use the level  
10 at Victoria Beach? Which wind level would you  
11 use? So from a pragmatic perspective, you need to  
12 choose a benchmark. And as I indicated to  
13 Ms. Enns, the benchmark that the province and  
14 Manitoba Hydro agreed to was a wind-eliminated  
15 level which reflects the volume of the lake.  
16 Because what we're trying to do is maintain the  
17 volume of the lake under the 715 threshold. And  
18 the chart that Mr. Hutchison showed about the  
19 weather bomb, yes, the water may be up five feet  
20 in the south end, but at the same time the water  
21 level is down in the north end three feet. So  
22 does that mean you should reduce flows or increase  
23 flows, depending on which water level you are  
24 choosing. So we're trying to get the wind  
25 effects -- Manitoba Hydro is not responsible for

1 the wind, we don't control it. And so the best  
2 thing to do is try and figure out a level over  
3 which there is some stability. And then you are  
4 actually responding to the change in water supply,  
5 and you're always going to be subject to the risks  
6 associated with storms. We can't regulate for  
7 storms. But what our regulation has demonstrated  
8 over the past 40 years is that during the period  
9 of the year when storms are likely to occur,  
10 that's in the fall, on average or in the high  
11 water years, water levels are lower, and so  
12 there's been some benefit. And so the stormy  
13 season, regulation produces lower level, storms  
14 are still going to occur but they would occur at  
15 lower water level. And it's just not practical to  
16 do anything else.

17 MR. SHEFMAN: You spoke to  
18 Ms. Whelan Enns about how you choose which of the  
19 monitoring stations to use, or to put more  
20 emphasis on. If we turn to slide 158, we can see  
21 that map of where those monitoring stations are.  
22 And I noticed that most if not all of them are  
23 found on the east side of the lake. So what my  
24 clients are concerned about, in particular for  
25 example, Dauphin River and Jackhead First Nations,

1 neither of which monitoring stations in any kind  
2 of vicinity to their populations, how does  
3 Manitoba Hydro ensure that the wind-eliminated  
4 water levels don't have the unintended effect of  
5 flooding their communities?

6 MR. CORMIE: Well, as I suggested to  
7 Ms. Enns, an excellent way of viewing this is what  
8 happens in the winter time when wind effects  
9 aren't there because the lake is covered with ice.  
10 And when George Island has got 715, Berens River  
11 is reading 715, Victoria Beach is at 715. So  
12 every one of those gauges reflects a still water  
13 level. Having another gauge on the west shore at  
14 these locations that you suggested won't change  
15 the wind-eliminated level. It will still be  
16 accurately measured through the gauge network that  
17 they have.

18 The gauges that were installed were  
19 installed over many decades by Water Survey  
20 Canada. Generally they were done at sheltered  
21 locations where it made sense to put a gauge in.  
22 We can put gauges in at any location, but they are  
23 subject to the forces of the ice in the winter, as  
24 the wind shoves the ice around, they may not be  
25 accessible for power, they may be difficult to

1 access. And they may be in such a poor location  
2 that they fluctuate up and down moment by moment  
3 and they never actually represent the average  
4 level of the lake. And a good example is having a  
5 gauge at the very south end of Lake Winnipeg at  
6 Chalet Beach. We tried that. It doesn't add to  
7 the information, it doesn't help you determine the  
8 water, it just actually creates more uncertainty.  
9 So the gauge network that we have, we're very  
10 satisfied with using that gauge network, there's  
11 enough redundancy in it, we have enough  
12 information to determine a wind-eliminated level.  
13 Adding any more gauges now wouldn't change the  
14 calculation of the wind-eliminated level. It may  
15 help those people who live in those communities to  
16 understand what the water level is, but it's not  
17 necessary for the purpose of regulation.

18 MR. GAWNE: Perhaps I can just add to  
19 that. And in regards to operating LWR to help  
20 local conditions from wind affected levels, I  
21 believe Mr. Hutchison explained this, but even  
22 under low inflow conditions to Lake Winnipeg,  
23 through operation of LWR it would take  
24 approximately a month to draw lake levels down by  
25 a foot. And that's under lower inflow conditions.

1 And average or higher inflow conditions, you could  
2 take many months, or a number of months possibly  
3 to draw the lake level down a few inches. And  
4 under high inflow conditions, of course, the lake  
5 level will rise. So when we're talking about  
6 these wind events and, for instance, the weather  
7 bomb where water levels changed by multiple feet  
8 within 24 hours, it's clear that we cannot affect  
9 the level on Lake Winnipeg through the operation  
10 of LWR to react to these high changes in water  
11 levels at locations around the lake because of the  
12 wind.

13 MR. SHEFMAN: Does Manitoba Hydro make  
14 any use of local knowledge or Aboriginal  
15 traditional knowledge to assist with its  
16 understanding of the practical impacts of the use  
17 of wind-eliminated water levels?

18 MR. CORMIE: I don't believe we have.

19 MR. SHEFMAN: Before we proceed any  
20 further, I'd like to follow up on a question asked  
21 by Manitoba Wildlands. Ms. Whelan Enns asked a  
22 number of questions directed at the various  
23 concerns raised during Manitoba Hydro's public  
24 consultations, and I don't believe the question  
25 was fully answered.

1 I'd like Manitoba Hydro to take an  
2 undertaking in this respect, to provide the  
3 Commission with a list of each consultation it has  
4 undertaken with respect to the Lake Winnipeg  
5 Regulation project, and where available, a list of  
6 what specific concerns were raised at each of  
7 those consultations.

8 THE CHAIRMAN: Mr. Bedford?

9 MR. BEDFORD: Of what use would that  
10 be to the four commissioners?

11 MR. SHEFMAN: I believe it would  
12 assist the four commissioners with having a better  
13 understanding of how the people directly affected  
14 by LWR view the program, are affected by the  
15 program, in ways that -- you know, unfortunately,  
16 we won't be able to reach everyone with these  
17 hearings, as much as we'd like to. And while  
18 these hearings will give us a snapshot, having  
19 that data, and I respect that Manitoba Hydro says  
20 that they have undergone, or taken upon themselves  
21 extensive consultations, I think that the  
22 commissioners would benefit from seeing some of  
23 the data from consultations, aside from the  
24 extremely brief summaries which we have been  
25 provided.

1 THE CHAIRMAN: Mr. Bedford?

2 MR. BEDFORD: I have a better idea.  
3 Why don't the four commissioners go to various  
4 communities around Lake Winnipeg and hear directly  
5 from the people who live there?

6 MR. SHEFMAN: I'm sorry, I don't think  
7 that's called for.

8 MR. BEDFORD: It occurs to me that in  
9 fact you have done that. My client, in attending  
10 meetings in communities, I do not believe gathered  
11 any data, so there will be no assistance by  
12 Mr. Hutchison putting together a little paper that  
13 lists the various towns and villages and First  
14 Nations that he's been to. The best you are going  
15 to get is Mr. Hutchison's recollections of what  
16 people told him in those communities, which is  
17 what he endeavored to do when he made his  
18 presentation. And you are much better off in life  
19 to hear directly from people, rather than to have  
20 hearsay material from Mr. Hutchison telling you  
21 what Mr. Hutchison remembers people told him.

22 THE CHAIRMAN: Mr. Shefman, are you  
23 looking at a particular period in time, are you  
24 suggesting over the last decade, or the last 40  
25 years that this has been in operation?

1                   MR. SHEFMAN: My original suggestion  
2 would have been in the course of preparing for  
3 this application, so from 2010 through to the  
4 present. It appears that counsel for Manitoba  
5 Hydro is extremely concerned about the difficulty  
6 of providing this information, so I suppose  
7 whatever is convenient for them.

8                   THE CHAIRMAN: Well, I'll ask the  
9 question of Mr. Bedford, or Mr. Hutchison. Did  
10 you engage, or did Manitoba Hydro engage in  
11 community consultations leading up to this  
12 application?

13                   MR. HUTCHISON: Maybe I can answer  
14 that. We did not engage in consultations as they  
15 are known. What we are attempting to do is get to  
16 know the communities around Lake Winnipeg and what  
17 their issues were on Lake Winnipeg, and also with  
18 our Lake Winnipeg Regulation project. But it was  
19 never thought or contemplated that that  
20 information would be shared with anyone else other  
21 than Manitoba Hydro. It was a way to sort of  
22 start relations with communities around the lake.

23                   MR. SHEFMAN: Perhaps this might  
24 clarify.

25                   Sir, when you went to those meetings,

1 we won't call them consultations, was records,  
2 formal or informal, kept of the type of concerns  
3 that were raised at each meeting?

4 MR. HUTCHISON: Yes. It was similar  
5 format where I would describe sort of our desire  
6 to get, to strengthen relations with communities  
7 around the lake. We described the Manitoba Hydro  
8 system. I would ask the community about their  
9 concerns on Lake Winnipeg itself and also with our  
10 Lake Winnipeg Regulation project. I would also  
11 look to see if the community was interested in  
12 further discussions, and/or having discussions  
13 include the broader community. And I'd prepare  
14 sort of a meeting summary which I shared with the  
15 community. But it was also on the understanding  
16 that it was just something to be shared between  
17 Manitoba Hydro and the community, or the First  
18 Nation.

19 MR. SHEFMAN: Those summaries would be  
20 what I would suggest may be useful to the  
21 commissioners to get a better idea of the issues  
22 that these people are dealing with.

23 MR. CORMIE: Mr. Shefman, historically  
24 Manitoba Hydro would respond to what I would call  
25 vocal interest groups, people that were prepared

1 to stand up, call Manitoba Hydro and ask them to  
2 come and present. When we looked at the history  
3 of that interaction, we were meeting with the same  
4 groups over and over again, and it was obvious  
5 that we weren't engaging with all the communities  
6 around the lake. So I asked Mr. Penner and  
7 Mr. Hutchison to make sure that we were reaching  
8 out to all the communities, so that everybody had  
9 an equal opportunity to let Manitoba Hydro know  
10 what our role was in Lake Winnipeg Regulation,  
11 that if they needed information about water levels  
12 that we were there to assist them. For example,  
13 if there was an emergency associated with a major  
14 flood, rather than wondering what's going to  
15 happen at their location, hey, there's a website  
16 now, you can get this information, and this is  
17 what Manitoba Hydro is doing. And so I was trying  
18 to be proactive so that not just those people who  
19 were vocal, but those people who didn't even know  
20 that Manitoba Hydro was regulating the lake had an  
21 opportunity to have a relationship with the  
22 utility. And I think that's a good behaviour for  
23 a steward of the water to do, is to know all, have  
24 a relationship with all the communities, not just  
25 in response to an emergency, but build up the

1 capital, build up the relationship, have them have  
2 a familiar face in Manitoba Hydro who they can  
3 reach out to and say, hey, we have an issue, can  
4 you help us? And a lot of these meetings, not  
5 just focused on water levels but all the issues  
6 associated with the power supply, demand-side  
7 management, Power Smart programs, put a face to  
8 the utility, and if there was some information  
9 that we could provide with regard to our water  
10 management activities, create an opportunity for  
11 communication.

12 MR. SHEFMAN: And I completely agree,  
13 sir, that that is responsible behaviour for the  
14 utility. My request for this undertaking is on  
15 the basis that, unfortunately, the commission is  
16 not able to visit all of these places. They were  
17 able to visit many, and that's fantastic, but that  
18 more information can't be a bad thing.

19 THE CHAIRMAN: Can I ask,  
20 Mr. Hutchison, you said you made reports of each  
21 of these community meetings. And in these  
22 reports, did you note concerns that people in the  
23 community had expressed about Lake Winnipeg  
24 Regulation?

25 MR. HUTCHISON: Yes, I did.

1 THE CHAIRMAN: And you shared these  
2 reports with the community?

3 MR. HUTCHISON: That's correct.

4 THE CHAIRMAN: Is there any reason why  
5 you wouldn't, or why you seem to be reluctant to  
6 share them with this proceeding?

7 MR. HUTCHISON: There's really no  
8 reason, I can't think of a lot of issues that  
9 would have come up that would have been sensitive,  
10 other than the fact that when I talked to the  
11 community and gave them a copy of the information,  
12 the meeting report, it wasn't with the idea that  
13 it would be shared with people outside of the two  
14 groups. So it's more on that case. And I also  
15 want to clarify that this information wasn't  
16 gathered for the hearing. The reason I was out  
17 there talking with, or as part of LWR final  
18 licence request -- trying to get a relationship  
19 with the community goes far beyond just this final  
20 licence request. We want a similar relationship  
21 with all stakeholders on all parts of our system.  
22 So I don't know if that answer -- like I'd almost  
23 want to go back to the community and ask if they  
24 are comfortable if this information would be  
25 shared.

1 THE CHAIRMAN: I'm just thinking,  
2 though. In the last few years, the Commission has  
3 gone through a number of Manitoba Hydro  
4 proceedings and reviews, and it's not uncommon for  
5 us to get fairly brief, but still reports on the  
6 community consultation processes.

7 MR. HUTCHISON: But that's a  
8 consultation process, this is an engagement  
9 process that we have been involved in.

10 THE CHAIRMAN: I was thinking the same  
11 thing Mr. Shefman just said, engagement and  
12 consultation are more or less semantics. In fact,  
13 I think that at one of the proceedings, I think it  
14 might have been Bipole there was this very  
15 specific use of the word engagement, but we did  
16 get reports on those engagements.

17 MR. BEDFORD: I agree it's semantics  
18 with Bipole III and with Keeyask. When our staff  
19 went to the community meetings, people were told  
20 up-front we are recording names, we are recording  
21 the gist of what you say and it will be filed  
22 publicly. So I think on this issue, the  
23 substantive concern we would have is the one  
24 Mr. Hutchison identified, which can be resolved  
25 through him communicating with the various

1 communities and saying, you've got our report last  
2 year, two years ago, we have been asked to file it  
3 publicly. Is that okay with you? And communities  
4 that say they have no objection, then it should  
5 not be a problem for us to file them. To file  
6 them without going back and asking people, some  
7 would find offensive.

8 THE CHAIRMAN: From my perspective, I  
9 don't think it would really matter if we knew the  
10 names of individuals, I think it's the concerns  
11 that might have been expressed in different  
12 communities.

13 MR. SHEFMAN: Yes.

14 THE CHAIRMAN: Quite frankly, I don't  
15 think we're going to learn anything from them that  
16 we don't already know. But nonetheless, it does  
17 address the point that Mr. Shefman has made that  
18 we can't get to all communities. If there is some  
19 information about issues in other communities, it  
20 might be of some benefit to some parties.

21 MR. BEDFORD: We will do the following  
22 then: We will look at the documents, we will  
23 remove the ones from communities that the  
24 commissioners actually got to, because you have a  
25 better source of information from your own visits

1 to those communities. We'll take the ones that  
2 you were unable to get to, and either have the  
3 consent from those to file, or in looking at them  
4 it may well be a simple matter of redacting names  
5 of individuals that you're not interested in, and  
6 just providing the gist of comments heard, that it  
7 would not be offensive to anyone.

8 THE CHAIRMAN: I think, I suspect that  
9 that's what Mr. Shefman is looking for.

10 MR. SHEFMAN: I have no problem with  
11 redacting names and locations and identifying  
12 information, and I think that that would be an  
13 appropriate way for this information to be put in  
14 front of the Commission.

15 MR. BEDFORD: Locations you're going  
16 to want to have, otherwise the whole exercise  
17 becomes a waste of time.

18 MR. SHEFMAN: Yes. I'm sorry.

19 THE CHAIRMAN: Is that acceptable to  
20 you, Mr. Shefman?

21 MR. SHEFMAN: It is.

22 THE CHAIRMAN: Is that something your  
23 client will undertake?

24 MR. BEDFORD: Yes.

25 THE CHAIRMAN: Thank you.

1 (UNDERTAKING # 1: Hydor to produce reports of  
2 meetings between Hydro and communities)

3 MR. SHEFMAN: Thank you.

4 So we'll continue on slide 170, and  
5 we're going to be flipping through these slides  
6 relatively quickly for a short while.

7 Mr. Hutchison, in your evidence you  
8 described a number of problems which stakeholders  
9 have raised regarding Lake Winnipeg Regulation.  
10 Is it your evidence that -- and I'll have you look  
11 quickly at slides 170, 172, 173, 176, 178, and  
12 183 -- is it your evidence that Manitoba Hydro  
13 either is not or is a minimal cause of each of the  
14 issues raised in those slides?

15 MR. HUTCHISON: Yes, that's correct.

16 MR. SHEFMAN: To what extent, in  
17 coming to this understanding, did Manitoba Hydro  
18 take into consideration and make use of Aboriginal  
19 traditional knowledge?

20 MR. HUTCHISON: I don't believe there  
21 would have been much Aboriginal traditional  
22 knowledge involved.

23 MR. SHEFMAN: Sorry, you don't believe  
24 there was much. Was there any?

25 MR. HUTCHISON: Let me review the

1 issues again?

2 MR. SHEFMAN: Thank you.

3 MR. HUTCHISON: I guess it would go  
4 back to the -- in looking at Lake Winnipeg, the  
5 impact of LWR is on water levels, and because of  
6 that, there was no reason to engage in doing ATK  
7 studies on Lake Winnipeg. So to the extent that  
8 information is available, it would have been used,  
9 but we did not engage in traditional knowledge  
10 studies.

11 MR. SHEFMAN: So it's your evidence  
12 then that Aboriginal traditional knowledge has  
13 nothing to add to these issues that we just  
14 discussed?

15 MR. HUTCHISON: That's not what I said  
16 at all. Actually, what I said is the effect of  
17 Lake Winnipeg Regulation is to reduce the --  
18 overall it reduces the peak levels and the average  
19 level of Lake Winnipeg. That in itself does not  
20 warrant a negative impact, and so we would not  
21 engage in Aboriginal traditional knowledge  
22 studies. That's not to say that we don't think  
23 that information would be valuable. And in fact,  
24 one of the projects we supported recently was the  
25 First Nations, Lake Winnipeg First Nations

1 Alliance, which is now -- I believe they changed  
2 it to the Lake Winnipeg Indigenous Collective.  
3 But they did a project to get all the First  
4 Nations on Lake Winnipeg together to look at their  
5 views on stewardship, and there is a sense that  
6 that will actually evolve into further work.

7 MR. SHEFMAN: Has Manitoba Hydro  
8 considered that the views of land users, local  
9 peoples, and the results of, or the content of  
10 Aboriginal traditional knowledge may lead to  
11 different conclusions with respect to those issues  
12 than what Manitoba Hydro has reached?

13 MR. HUTCHISON: I believe at the  
14 outset of my presentation yesterday, I talked  
15 about how pretty much everyone around the lake has  
16 concerns, and I mentioned the five issues. And I  
17 said a lot of people around the lake feel that LWR  
18 is the cause. In doing my presentation I tried to  
19 show information or demonstrate information that  
20 shows that there are a lot of factors affecting  
21 Lake Winnipeg, and LWR is not the cause of each of  
22 those negative factors.

23 MR. SHEFMAN: You did make that point,  
24 you are right. So let's talk about that for a  
25 moment.

1                   In a number of Manitoba Hydro's  
2 responses to written questions, and I'm going to  
3 use as an example CAC 26. Manitoba Hydro notes  
4 that it considered "the view of local peoples."  
5 In that question, for example, Manitoba Hydro  
6 wrote, and I quote:

7                   "The view of local peoples regarding  
8 the effect of Lake Winnipeg Regulation  
9 on water levels is provided as the  
10 opening sentence of section 4.2 on  
11 page 65 of the Lake Winnipeg  
12 Regulation document."

13                   Now, you'll excuse my quoting, but if  
14 we turn to that sentence it reads, and I quote:

15                   "Many people believe that Lake  
16 Winnipeg Regulation has raised water  
17 levels on Lake Winnipeg, particularly  
18 during the fall, while others believe  
19 Lake Winnipeg Regulation results in  
20 water levels being held at a constant  
21 level."

22                   Similar one sentence descriptions can  
23 be found at the start of other sections in the  
24 written submission, for example 3.3.4 at page 52.

25                   Are these one sentence descriptions or

1 one or two sentence descriptions what Manitoba  
2 Hydro believes to be appropriate considerations of  
3 local knowledge?

4 MR. HUTCHISON: I don't think I'd use  
5 these, sort of that statement to specifically  
6 comment on local knowledge. In going around Lake  
7 Winnipeg and hearing the views of stakeholders,  
8 also I think I mentioned I have a cottage on the  
9 lake, so even in my off time I'm listening to  
10 people's concerns over the lake, and there are  
11 widespread assumptions that Manitoba Hydro is the  
12 cause of a lot of the negative factors. So that  
13 statement is correct in the way that it was  
14 intended to be.

15 MR. SHEFMAN: Do you believe that the  
16 example that we just read and other similar  
17 examples are meaningful incorporations and  
18 consideration of the views of local peoples and in  
19 particular of Aboriginal traditional knowledge?

20 So let me clarify. When you report in  
21 the submission that people around Lake Winnipeg  
22 have a certain opinion, or believe a certain thing  
23 about the issues which you have identified, do you  
24 believe that that identification that you have  
25 done in that one or two sentence opening paragraph

1 is a meaningful incorporation and consideration of  
2 the views of local peoples and Aboriginal  
3 traditional knowledge?

4 MR. HUTCHISON: I'm having a tough  
5 time getting to the question. If you are relating  
6 the comment that I've got specifically to  
7 Aboriginal knowledge, then I don't know that you  
8 could make that direct link. What I did find in  
9 talking with people is a lot, everyone agrees on  
10 the issues that are there but they -- it's the  
11 cause of the issue that there doesn't seem to be  
12 as much agreement on. And with water levels, you  
13 know, it has been very wet, people have seen that  
14 for a decade or so, and it's pretty easy to draw  
15 conclusions that it's something to do with  
16 Manitoba Hydro's operation of the lake.

17 MR. SHEFMAN: And to clarify, when  
18 we're talking about Aboriginal traditional  
19 knowledge, we're not talking about the everyday  
20 knowledge of people who happen to be Aboriginal,  
21 we're talking about a very specific thing which  
22 includes oral history. And so I wouldn't want to  
23 be limiting our discussion to 10 years, for  
24 example. But perhaps I can clarify my question.  
25 Where in Manitoba Hydro's written submissions has

1 Manitoba Hydro considered the views of local  
2 peoples and Aboriginal traditional knowledge?

3 MR. HUTCHISON: And you're talking  
4 specific to Lake Winnipeg or downstream?

5 MR. SHEFMAN: Lake Winnipeg Regulation  
6 generally, the written submissions. I'm sorry,  
7 let me correct that, Lake Winnipeg in particular.

8 MR. HUTCHISON: If I can rephrase what  
9 I think you're saying, or asking is, where in our  
10 submission do we use ATK?

11 MR. SHEFMAN: Where in your submission  
12 do you use ATK to reach your conclusions, to  
13 inform your conclusions, to consider?

14 MR. HUTCHISON: I don't know that  
15 there are particular areas that you can actually  
16 point to and say ATK was used to inform. You  
17 know, looking at the five issues, water levels,  
18 erosion, Netley-Libau marsh, the fishery, I don't  
19 think you can actually source out where ATK was  
20 used to -- or involved in, or incorporated into  
21 our review of that issue.

22 MR. SHEFMAN: Has Manitoba Hydro ever  
23 incorporated ATK directly into its regulatory  
24 submissions? Sorry, let me rephrase that. Is it  
25 the case that in its Keeyask environmental impact

1 statement, Manitoba Hydro incorporated Aboriginal  
2 traditional knowledge directly into its  
3 submissions?

4 MR. HUTCHISON: That's my  
5 understanding, yes.

6 MR. CORMIE: Mr. Shefman, when we are  
7 undertaking a new project, and we're trying to  
8 balance western science, southern values, ATK is  
9 very important to make sure that the Aboriginal  
10 traditional knowledge and values are in that  
11 equation, so that everybody has a piece in the  
12 decision and has been considered. Our submission  
13 was what we know, what has occurred in the past,  
14 we weren't asked to go out and do new work, try  
15 and establish ATK and bring it forward as  
16 something that -- not that it couldn't be done,  
17 but that wasn't -- the purpose of our document was  
18 to say this is what we know, this is what we  
19 understand, this is all the work that has been  
20 done, to kind of set the bar about -- we're not,  
21 we weren't in the position of starting out with a  
22 new project. And clearly, if Lake Winnipeg  
23 Regulation is a project that Manitoba Hydro was  
24 proposing, much like happened at Keeyask and much  
25 like happened in Wuskwatim, every stakeholder,

1 including the Aboriginal community, would have  
2 equal opportunity in putting their values on the  
3 table and having them considered as part of the  
4 deal. This project is -- we weren't asked to do  
5 that. We are trying to look back and say, was  
6 this project, has it been operating according to  
7 the licence for the last 40 years? Maybe there's  
8 a lot of work to do in the future if something was  
9 to change. But it's hard to ask us to do  
10 something now and respond to something that we  
11 weren't asked to do as part of this process.

12 MR. SHEFMAN: Would you agree with me  
13 that when Manitoba Hydro has in the past  
14 incorporated ATK directly into its submissions,  
15 that allowed for a more holistic understanding of  
16 whatever that application may have been?

17 MR. CORMIE: Oh, absolutely. And when  
18 you look at the original designs for Wuskwatim and  
19 Keeyask that might have been proposed in the '60s,  
20 high level projects, lots of flooding, no  
21 consideration of the values of the local  
22 communities, very little consideration of the  
23 environmental impacts, and compare that to what we  
24 have done in partnership with the communities that  
25 we are now affecting, the results are dramatically

1 different. So there's huge value brought to the  
2 table by incorporating ATK into those decisions  
3 and bringing everyone to come forward together as  
4 partners, and having an outcome that everyone can  
5 say respects their values.

6 MR. SHEFMAN: And so given what you  
7 have just said, why hasn't Hydro acknowledged that  
8 Aboriginal traditional knowledge would inherently  
9 enhance its application in this respect and  
10 provide the Commission with a more holistic  
11 understanding of how Lake Winnipeg Regulation has  
12 impacted both upstream and downstream communities  
13 in the entire environmental impacts, rather than  
14 in just the narrow focus?

15 MR. CORMIE: Well, it goes back to the  
16 point that that would be something that wouldn't  
17 retract the state of knowledge, it would require  
18 new work. And we're not proposing to do anything.  
19 We're proposing to change an interim licence to a  
20 final licence. We're not trying to make a  
21 rebalancing of interests, of bringing new  
22 interests to the table. That balance was struck  
23 in 1970 when the resource was allocated to Hydro  
24 and to flood control. And we're following  
25 administrative process of the licence saying we're

1 now in the position to apply for a final licence.  
2 We're entitled to a final licence. We're not  
3 suggesting that we're changing anything.

4           And if we were to come to the point  
5 and say, we need to change this licence term and  
6 this licence term to reflect the new state of the  
7 world, then clearly we would have to go out and  
8 solicit the values of all the affected  
9 stakeholders. But we're not proposing that. And  
10 it's not that it wouldn't be a good thing, but  
11 we're not proposing to change anything. And so  
12 you are asking us to have reported on something  
13 that we're not -- it just doesn't fit into the  
14 process and it's inconsistent with what we were  
15 asked to do.

16           MR. SHEFMAN: Thank you.

17           MR. HUTCHISON: Can I add to that as  
18 well?

19           MR. SHEFMAN: Sure.

20           MR. HUTCHISON: Downstream of Lake  
21 Winnipeg, we have incorporated local knowledge  
22 into shaping the mitigation works, programming  
23 agreements that we've got. Upstream on Lake  
24 Winnipeg, because the impact from our point of  
25 view is a beneficial one, the effect of keeping

1 water levels lower, reducing flood impacts, we did  
2 not convene or do any traditional knowledge  
3 studies, so they are not there for us to use.

4 MR. SHEFMAN: Thank you.

5 Has Manitoba Hydro considered how it  
6 could or would incorporate Aboriginal traditional  
7 knowledge into the day-to-day on the ground  
8 decision-making process if that were to be made a  
9 condition of the licence?

10 MR. GAWNE: In terms of stakeholder  
11 feedback on operations, I think we would consider  
12 that feedback, as we would from any individual  
13 affected by the waterways that were involved in  
14 the operations.

15 MR. SHEFMAN: Thank you. Just a few  
16 final questions.

17 Mr. Cormie, in your closing comments  
18 yesterday, you noted that there had been:

19 "Negative impacts to the downstream as  
20 a result of the project."

21 Does Manitoba Hydro acknowledge that  
22 upstream communities, residents and resource users  
23 have also suffered negative impacts?

24 MR. CORMIE: No, we don't acknowledge  
25 that.

1 MR. SHEFMAN: Fair enough.

2 Mr. Cormie, in your conclusion  
3 yesterday, you spoke about how Manitoba Hydro is  
4 not requesting any changes to the licence. Is it  
5 Hydro's position that the needs of Manitoba, the  
6 needs of Manitoba's power system, the needs of the  
7 watershed are the same today as they were in 1970?

8 MR. CORMIE: The use of the word  
9 "needs," I think the world has changed since 1970,  
10 and as I mentioned before, if we were in the  
11 position of building Lake Winnipeg Regulation  
12 today, it would be shaped through a different  
13 process. The outcome may still be exactly the  
14 same, but our laws and our expectations and our  
15 values have evolved. And clearly we are much more  
16 inclusive in the process. Projects like Lake  
17 Winnipeg Regulation, instead of being designed and  
18 built in a couple of years, they now take 10, 15  
19 years from the time they are conceived and the  
20 consultations take place, and they are subject to  
21 different environmental standards and processes.  
22 And so it would be logical that it might result in  
23 a different project. But, you know, we can't undo  
24 the project, it is what it is. And you know, I  
25 think we've got that as a given. The question is,

1 how would we go forward?

2 MR. GAWNE: If I could just add to  
3 that, and perhaps take a little more of a literal  
4 attempt at responding to your question about, is  
5 it Manitoba's position that the needs are the  
6 same, or have the needs changed of the power  
7 system? And certainly, obviously, the needs and  
8 the electrical demand on the system has increased  
9 since the '70s. And we have accommodated that  
10 increase in electrical demand through, you know,  
11 through our power resource planning and through  
12 addition of projects such as Keeyask and  
13 Wuskwatim. And those projects were designed and  
14 constructed and predicated on the existence of the  
15 Lake Winnipeg Regulation licence. So it's like  
16 the system has evolved around Lake Winnipeg  
17 Regulation.

18 MR. SHEFMAN: Thank you very much for  
19 your cooperation and your very helpful answers.

20 Mr. Chairman, those are my questions.

21 THE CHAIRMAN: Thank you, Mr. Shefman.  
22 We'll take another five minute break. Just before  
23 you all run off, I just wanted to explain, Norway  
24 House Fisherman's Co-op, you have some questions.  
25 Approximately how long, do you have any idea?

1 MR. DANIELS: Maybe half hour, maybe  
2 less.

3 THE CHAIRMAN: Okay. That will work.  
4 I also want to allow some time for members of the  
5 public, if any, have any questions of Manitoba  
6 Hydro.

7 So we'll come back in five, six, eight  
8 minutes, and we'll hear from Norway House  
9 Fishermen's Co-op first, then I'll open it up to  
10 the public.

11 (Proceedings recessed at 3:52 p.m.  
12 and reconvened at 4:02 p.m.)

13 THE CHAIRMAN: If you could introduce  
14 yourself for the record and then proceed, please.

15 MR. LENTON: Good afternoon,  
16 commission and members of the Manitoba Hydro  
17 panel, my name is Keith Lenton and I'm here for  
18 the Norway House Fisherman's Cooperative. As  
19 such, I'm sure it won't be a surprise, I'm mainly  
20 going to be asking about the fishery. And in  
21 particular, I'm going to be focusing on Playgreen  
22 Lake and that region.

23 Just as a note, I may be brief given  
24 the narrow field of interest, and I imagine  
25 Mr. Swanson will have probably the most to say on

1 these matters, but of course the whole panel is  
2 most welcome to give input. And some of these  
3 questions is really going to be clarifying aspects  
4 of the presentation we saw yesterday and as well  
5 as the main Lake Winnipeg Regulation document  
6 that's been provided. And I'm just going to be  
7 trying to understand the limits of some of the  
8 studies that Manitoba Hydro has relied on in their  
9 presentations.

10 So the first thing I'd like to talk  
11 about is the fish stocks, and in particular, the  
12 impact in the area around 2-Mile Channel in  
13 Playgreen Lake. So Manitoba Hydro has indicated  
14 that it does not believe that Lake Winnipeg  
15 Regulation has a significant impact on fish stocks  
16 in Lake Winnipeg. So I'd just like to probe a  
17 little bit into this.

18 First I'd like to direct you to the  
19 Lake Winnipeg Regulation document page 48 and 49.  
20 I'm looking at the last paragraph of page 48. And  
21 this is where Manitoba Hydro acknowledges that the  
22 presence of 2-Mile Channel has resulted in a  
23 localized increase in turbidity and sediment  
24 build-up and says it would affect fish habitat.

25 On the next page on page 49, there is

1 an indication that CAMP data shows that fish  
2 population in Playgreen Lake are relatively  
3 healthy with high fish catches compared to many  
4 other water bodies in the area. Now, just on a  
5 reading of this, I found the language just a  
6 little bit vague so I was hoping for some  
7 clarification. In particular, could you indicate  
8 in your understanding how localized turbidity and  
9 sedimentation would affect fish habitat with  
10 respect to the area around 2-Mile Channel?

11 MR. SWANSON: Sure. To be clear on  
12 the definitions, we did reference or make a  
13 different statement about habitat than the  
14 population. And so the context was that the  
15 physical process conceptually through a pathways  
16 of effects approach would affect fish habitat in  
17 some fashion. The introduction of more material  
18 into the water at some point would either settle  
19 out or be carried in the water. And to that  
20 extent, there would be an effect. Whether that  
21 effect sort of manifests through the food chain  
22 all the way to the fish is a different question.  
23 And we're making the observation that we didn't  
24 see that manifestation through to the fish stocks  
25 at the course level that we're able to look at

1 fish stocks as we talked about yesterday, we  
2 didn't see an obvious difference that would be  
3 sort of obviously or possibly linked to that.

4 MR. LENTON: Okay. And just to be  
5 clear, are you referring to the overall population  
6 of fish and the different species of fish, you  
7 didn't see any difference there?

8 MR. SWANSON: Well, again, because the  
9 studies are done in a different format and over  
10 different times, what we tried to look at was  
11 overall catch per unit effort in terms of the fish  
12 stocks and the composition that those top  
13 predators were as a contribution to that catch per  
14 unit effort. Reason being, as I stated, the  
15 energy has to flow that high up. If you have  
16 similar numbers, then from a bio energetics level  
17 from a trophic efficiency model, you have a  
18 functioning ecosystem that's producing apex  
19 predators, in this case walleye and northern pike.  
20 Interestingly, walleye are also one of the more  
21 valuable fish species in the commercial fisheries.

22 MR. LENTON: Just so I understand,  
23 your assessment or your agreement that the  
24 Playgreen Lake fish stock is healthy is based on  
25 the presence of those higher level, higher energy

1 fish because that would suggest that all of the  
2 lower fish in the pyramid are also there feeding  
3 this food chain?

4 MR. SWANSON: Yeah. We're making the  
5 observation based on the information that both the  
6 overall catch per unit effort relative to the  
7 other water bodies that we're comparing it to is  
8 high. And that those predators, it's not all  
9 lower trophic level fish in there, that the  
10 functioning ecosystem is represented by the  
11 presence of the walleye and pike. And again,  
12 qualifying this with looking at information that  
13 goes back over a number of years and you know the  
14 habitat sampled may have been chosen for different  
15 reasons over time.

16 MR. LENTON: Certainly. All right, so  
17 notwithstanding that there may be no measure or  
18 difference in a population change over time, you  
19 know, based on the sedimentation flowing into  
20 Playgreen Lake from 2-Mile Channel, would you  
21 agree that it's still possible that the fish there  
22 could be relocated or moved, their habitat could  
23 be moved by the influx of sedimentation?

24 MR. SWANSON: I would think that's a  
25 possibility.

1                   MR. LENTON: Are you aware of any  
2 studies that have chartered a change in the  
3 location of the habitats? Not talking about the  
4 overall numbers, but just any studies that show  
5 the locations or any movement of them?

6                   MR. SWANSON: I know there were  
7 studies that did look. I'm not sort of confident  
8 that right at this moment I could speak exactly to  
9 what level of discrimination there was between  
10 them in terms of site sampled. And you're  
11 basically -- you would have to look at each  
12 individual set location and be able to determine  
13 what the sedimentation and the turbidity levels  
14 were relative to the catches. And typically the  
15 studies wouldn't have gone to that level of  
16 detail. They may be sort of a view to look at  
17 turbidity as well as the overall catch per unit  
18 effort. But I'm not aware of anything that got to  
19 that level of discrimination.

20                  MR. LENTON: Okay, thank you. Would  
21 it be fair to say that Manitoba Hydro is relying  
22 on the studies that you have mentioned as well as  
23 the CAMP data in its position that it holds that  
24 the fish stock in Playgreen Lakes are healthy  
25 overall?

1 MR. SWANSON: Yeah. What we're saying  
2 is that they appear to be healthy, that based on  
3 the catch per unit effort and the data that we see  
4 and that we're currently sampling under the CAMP  
5 program.

6 MR. LENTON: But so you have indicated  
7 that you may not be able to note any specific  
8 locations where this data was collected. That's  
9 true?

10 MR. SWANSON: Sorry. Just a sec.  
11 Can you repeat?

12 MR. LENTON: Are you aware of any  
13 studies that show the specific locations that in  
14 or around Playgreen Lake that speak to the fish  
15 stocks?

16 MR. SWANSON: So a little more  
17 information on the CAMP program. We do know where  
18 the sites are. That information is known. And  
19 we've recently undertaken with the community to  
20 look at substrate, I guess deposition, turbidity  
21 rates, erosion, with a view to begin to understand  
22 what the information that we sampled in CAMP which  
23 is more than just the fish catch per unit effort  
24 but relative to the locations and the physical  
25 processes and turbidity for example.

1 MR. LENTON: Okay.

2 MR. SWANSON: So that's a step that's  
3 being worked on as part of CAMP and would be part  
4 of our future ability to understand what's going  
5 on, to relate the individual specific sites with  
6 more of the physical process information.

7 MR. LENTON: Can you indicate around  
8 what years these studies commenced or what the  
9 time line is on those studies?

10 MR. SWANSON: The CAMP program has  
11 been running and Playgreen Lake is a rotational  
12 water body at this point. So it's currently  
13 sampled every three years. And the protocol is to  
14 look at macro -- the water quality, the benthos,  
15 the bugs in the mud, small fish community and the  
16 larger fish community based on mesh sizes that you  
17 use. So that's the CAMP program. CAMP started in  
18 2008 I believe. Just hang on a sec. So 2009 they  
19 were sampling on Playgreen Lake. That's when it  
20 started. So it would be every three years. The  
21 physical process is there has been a year or two  
22 of intensive study of sediment transportation and  
23 turbidity on Playgreen Lake proper. And the idea  
24 was to look at that physical process, establish  
25 the relationships, to understand what was going

1 on, and to advise future monitoring as to how much  
2 and where we should be looking at it. And that's  
3 just recently. There's a report being prepared.  
4 It was discussed with community, I think there was  
5 a four party meeting recently with the community,  
6 Canada and Manitoba. And that information is  
7 known to the community. It's soon to be -- the  
8 report is soon to be completed. So it's recent.

9 MR. LENTON: Okay, thank you. So a  
10 separate issue now but still relating to fish  
11 studies. Could I draw your attention to page 72  
12 of the booklet that you had yesterday with us for  
13 your presentation. I'm just looking at, you can't  
14 really see it on the screen, but there's a number  
15 of little green fish symbols in the southern part  
16 of Playgreen Lake. I count about seven of them in  
17 total. That includes the hollowed out ones  
18 indicating studies that were done before Lake  
19 Winnipeg Regulation. So yeah, about seven within  
20 there, mainly along the western shore. And the  
21 last one I'm looking at is right at the mouth of  
22 8-Mile Channel. That's sort of the area I'm  
23 looking at.

24 Now, are you aware of what these exact  
25 studies are or what they say?

1                   MR. SWANSON: I'm sorry, I can't tell  
2 you exactly which studies those specific ones  
3 were. What I can tell you is that some of those  
4 symbols are part of broader programs that cover  
5 different water bodies. You'll note on page 43,  
6 actually it's in our appendix 6, and it's the same  
7 slide that was in the powerpoint presentation.  
8 And the studies are, there's actually quite a long  
9 gap between the published information, the years  
10 were '71 and then 1987, 2009 and 2010 would have  
11 been CAMP sampling. So there aren't a lot of  
12 studies specific to Playgreen Lake that did fish  
13 information. Those graphs, I'm assuming that the  
14 fish on there are representative of those studies  
15 that were done.

16                   MR. LENTON: Does Manitoba Hydro have  
17 access to the studies that are at least complete  
18 and not ongoing at the moment?

19                   MR. SWANSON: Yes. All the  
20 information that we had access to and is included  
21 in the report was provided. The pdf's were  
22 provided.

23                   MR. LENTON: The entire articles, not  
24 just the references?

25                   MR. SWANSON: Yes.

1 MR. LENTON: Okay, thank you. Now I'd  
2 just like to ask a few questions about the studies  
3 and methodologies. In particular, I'm looking at  
4 the Doan and Lawler study of 1992.

5 MR. SWANSON: Sure. And I'm advised  
6 that the map also includes studies done by pre  
7 LWR, not by Manitoba Hydro. There is some work  
8 done by the study board at the fisheries branch.

9 MR. LENTON: Yes, of course. I was  
10 wondering if you had access to them and were aware  
11 of them?

12 MR. SWANSON: Yes.

13 MR. LENTON: Of course. So my next  
14 series of questions is on mainly pertaining to the  
15 Doan and Lawler report of 1992. This was referred  
16 to a few times in your presentation and in the  
17 Lake Winnipeg Regulation document. So really I  
18 think the crux of what's been referred to is on  
19 page 24 of appendix 8. It's a quote. It's in the  
20 middle of the page. So the quote that I believe  
21 Manitoba Hydro has reproduced all or part of at  
22 various points in its presentation is as follows:

23 "Based on a review of Lake Winnipeg  
24 Whitefish production and the  
25 consideration of biological factors

1                   that might account for a decrease in  
2                   Whitefish numbers attributed to Lake  
3                   Winnipeg Regulation, there is no  
4                   reasonable basis to conclude that the  
5                   Lake Winnipeg Regulation has had a  
6                   measurable impact on the Whitefish  
7                   fishery."

8       So am I correct in my understanding that Manitoba  
9       Hydro's position is informed substantially by this  
10      opinion?

11                   MR. SWANSON: Yes, it's the  
12      information that we had available to report on  
13      that. And to the extent that Whitefish  
14      historically were known to move back and forth  
15      between Lake Winnipeg and Playgreen Lake, there  
16      would be some applicability of that. But the  
17      statement was, I think it was directed primarily  
18      at Lake Winnipeg.

19                   MR. LENTON: And while this 1992 study  
20      was done I understand, and correct me if I'm wrong  
21      because a number of commercial fishermen had  
22      voiced concerns over declining fish stocks and  
23      they had been suggesting that Lake Winnipeg  
24      Regulation might be to blame for this. And so  
25      Manitoba Hydro undertook this study; is that

1 correct?

2 MR. SWANSON: That's my understanding.

3 MR. LENTON: Now, with regard to the  
4 study by Lawler and Doan, can you tell me anything  
5 specific about it with regards to their  
6 methodology if you are aware?

7 MR. SWANSON: I believe there was a  
8 great deal of institutional knowledge that those  
9 two gentlemen had and I think that's probably why  
10 they were selected. One was the former director  
11 of fisheries branch so he would have had  
12 considerable knowledge of the fishery on Lake  
13 Winnipeg at that time. The other what I  
14 understand is that there was dialogue and  
15 communication meetings with commercial fishermen.  
16 And beyond that, I'm not familiar. It wasn't a  
17 field study, it was more of a -- as I understand  
18 it, it was more of a conversation undertaken to  
19 ascertain what the issues were and to use the  
20 information that was available.

21 MR. LENTON: I'm sorry, I didn't quite  
22 hear that. Did you say it was not a field study  
23 and it was more a consultation between --

24 MR. SWANSON: It would have been based  
25 on the information that was available at the time

1 is my understanding. And that would have included  
2 field information like various netting. But I  
3 don't believe that Drs. Lawler and Doan, as  
4 retired bureaucrats, were out sampling fish.

5 MR. LENTON: That's right. That's  
6 likely. Do you know what approximate time period  
7 that the data that they used was collected from?

8 MR. SWANSON: My understanding again  
9 is that it's information leading up to the date of  
10 the report so it would have been from the -- it  
11 had to have gone back prior to LWR in order to  
12 make the statements that they did. I don't know  
13 the exact year, so.

14 MR. LENTON: Okay. Thank you. Now,  
15 so we may have touched on this already but I just  
16 want to clarify the scope of what Manitoba Hydro  
17 is saying in its document. So when Manitoba Hydro  
18 says that the fish stocks are healthy in Lake  
19 Winnipeg, what specifically are they saying? And  
20 by that, I mean are you referring to the Lake  
21 Winnipeg basin or the entire area, the whole water  
22 system?

23 MR. SWANSON: First of all, Manitoba  
24 Hydro is reiterating statements of others who say  
25 that the fishery is healthy.

1 MR. LENTON: Yes, I understand that.

2 MR. SWANSON: And again, it's my  
3 understanding of those statements that are made.  
4 The most recent being a fairly in-depth study of  
5 Lake Winnipeg and the commercial fishery that was  
6 undertaken by Dr. Burton Ayles, who is also a  
7 former regional director general for Fisheries and  
8 Oceans. And there were commercial fishermen on  
9 that committee involved in that. And I don't know  
10 the specifics of their consultations but the  
11 statement about the fishery being in relatively  
12 healthy shape was made by those gentlemen as part  
13 of that report. And that's recent. That's --

14 MR. LENTON: Yes, that was 2011.

15 MR. SWANSON: Yeah.

16 MR. LENTON: Maybe you don't know but  
17 I'll ask anyway. Do you know if they were really  
18 looking at Lake Winnipeg basin or were they up in  
19 Playgreen Lake?

20 MR. SWANSON: My understanding again  
21 is that that was Lake Winnipeg specific. And  
22 again, just to reiterate, logically there is  
23 movement of fish between Playgreen and Lake  
24 Winnipeg. So to the extent that that applies, I'm  
25 not sure.

1                   MR. LENTON: Yes of course and they  
2 are all interconnected. So yes, I understand the  
3 waterways are all connected but I just want to  
4 confirm my understanding that Manitoba Hydro has  
5 reiterated a position that the fish stocks in Lake  
6 Winnipeg are healthy. This was based on a study  
7 that was, it seems that was likely done on Lake  
8 Winnipeg and not on Playgreen Lake.

9                   MR. SWANSON: In terms of those  
10 statements, yes, that's our understanding of Lake  
11 Winnipeg.

12                  MR. LENTON: And beyond the 1992  
13 Lawler and Doan study, are you aware of any others  
14 that have taken place in Playgreen Lake with  
15 respect to fish stocks pre and post Lake Winnipeg  
16 Regulation?

17                  MR. SWANSON: The information that we  
18 had that was published is contained in the  
19 document and the associated appendices. I'm aware  
20 that Manitoba Fisheries Branch has an ongoing  
21 program and relationship with the commercial  
22 Fishermen. We didn't explore in depth what  
23 information was available from Manitoba Fisheries  
24 Branch in that regard. So I wouldn't say there  
25 has been no study other than those. I'm saying

1 the published reports, this is what we had  
2 available and we looked at.

3 MR. LENTON: I just wanted to confirm  
4 what you had included in the documents.

5 MR. SWANSON: Right.

6 MR. LENTON: So now, same topic but  
7 I'm looking at the concerns of the fishermen now.  
8 And you may have answered this already. Do you  
9 consult regularly with commercial fishermen about  
10 their concerns, the impact of Lake Winnipeg  
11 Regulation?

12 MR. HUTCHINSON: I guess a few years  
13 ago, it was brought to our attention by the Norway  
14 House commercial fishermen's co-op that they had a  
15 feeling that whenever the flood -- sorry, the  
16 spillway gates were open at Jenpeg, that during  
17 the fall fishing season that it tended to decrease  
18 their fishing success. So they actually wrote a  
19 letter to our president at the time asking if he  
20 would keep the gates not open during the fishing  
21 season. And in certain years, we had been able to  
22 do that. But in these high water years, that  
23 hasn't been the case. So as part of that, myself  
24 and a few others did meet with the Commercial  
25 Fishermen's Co-operative and discuss the issue

1 with them.

2 MR. LENTON: So this was a few years  
3 ago.

4 MR. SWEENEY: Yeah. And if I can just  
5 add to that as well. Manitoba Hydro field staff  
6 also consults with the Norway House commercial  
7 fishers on a regular basis and have established a  
8 number of programs with the commercial fishers as  
9 well. So yes, we do consult with them on a  
10 regular basis.

11 MR. LENTON: Could you advise or even  
12 just sort of briefly describe what some of these  
13 programs might be that Manitoba Hydro has  
14 established with them?

15 MR. SWEENEY: Well, the Norway House  
16 fishers are a part of the, are also a part of the  
17 master implementation comprehensive agreement as  
18 you are likely aware.

19 MR. LENTON: Yeah.

20 MR. SWEENEY: And some of the dollars  
21 associated with that help enhance the program  
22 throughout since the signing of the agreement.  
23 However, the most recent ones have been for  
24 shoreline stabilization around 8-Mile and 2-Mile.

25 MR. LENTON: That's right, yes.

1 MR. SWEENEY: So it's more a debris  
2 program where we're dealing with the hanging trees  
3 and some of the shoreline issues there as well,  
4 so.

5 MR. LENTON: Okay, thank you. So  
6 would you agree that, you know, the general  
7 conditions on Playgreen Lake or perhaps any lake  
8 over a period of 23 years, and I'm thinking since  
9 the publication of the Doan and Lawler study in  
10 1992, that the lake can change. Right?

11 MR. SWANSON: Yes.

12 MR. LENTON: Specifically does  
13 Manitoba Hydro maintain that the Doan and Lawler  
14 report as of 1992 still represents an accurate  
15 present day description of the fish stock  
16 conditions in Playgreen Lake?

17 MR. SWANSON: No. I would say  
18 appendix 8 was about Lake Winnipeg, so the  
19 statements are about the Lake Winnipeg fishery.  
20 So the Doan and Lawler report is definitely more  
21 directed at the Lake Winnipeg fishery. And it was  
22 an assessment of LWR effects. It wouldn't stand  
23 as the definitive piece on what has changed for  
24 other reasons, whether it's just natural  
25 variability or environmental issues, climate

1 change, things like that.

2 MR. LENTON: I take your point, thank  
3 you. I heard that Manitoba Hydro had some  
4 engagement or consultations with the commercial  
5 fishermen over the past few years on their  
6 concerns. And Manitoba Hydro, I presume,  
7 acknowledges they do have these concerns, even if  
8 they don't agree with them or agree that Lake  
9 Winnipeg Regulation is the cause of these  
10 concerns, correct?

11 MR. SWEENEY: Manitoba Hydro has  
12 ongoing programming. So the shoreline  
13 stabilization program is part of Manitoba Hydro's  
14 offsetting program that works with various  
15 communities and resource users in those areas. So  
16 what I would say is that the shoreline  
17 stabilization program that is associated with the  
18 Norway House Fishermen Co-Op is tied to our debris  
19 management program to address debris along the  
20 shoreline, yes.

21 MR. LENTON: So shoreline erosion,  
22 that's one aspect that Manitoba Hydro is assisting  
23 them with. When if say a commercial fisherman  
24 comes forward and says, you know, their boat's  
25 propellers are being destroyed by sediment and

1 their nets are being ruined, whether or not  
2 Manitoba Hydro believes it's responsible for that,  
3 can you describe what efforts Manitoba Hydro makes  
4 to consult or engage or deal with those claims  
5 from commercial fishermen?

6 MR. SWEENEY: As I mentioned earlier,  
7 the Norway House Fishermen Co-op is part of the  
8 master implementation. So as part of the Master  
9 Implementation Comprehensive Agreement, there's  
10 processes and procedures that are tied to that  
11 agreement. In regards to claims, there is also a  
12 funding mechanism to deal with adverse effects  
13 that relate to claims for the fishers.

14 MR. LENTON: Okay. So the agreements  
15 may cover some compensation for damage. How it's  
16 ever caused, that would be up to them to decide  
17 how they may want to use their funding. I  
18 understand that. If, for instance, the fishermen  
19 come and say there's no fish here or whatever, how  
20 does Manitoba Hydro reconcile that with their  
21 studies that say yes, there are fish there?

22 MR. SWANSON: Sorry, can you say that  
23 one more time?

24 MR. LENTON: If the commercial  
25 fishermen comes to Manitoba Hydro with a concern

1 that there's no fish where they used to  
2 traditionally always fish, and you have your  
3 studies that you rely on that say that the fish  
4 stocks haven't changed or there's been no  
5 significant change to them, how do you respond to  
6 this, how do you reconcile their experiential  
7 evidence with your studies?

8 MR. SWANSON: So this question is not  
9 general, it's specific about Playgreen Lake,  
10 correct?

11 MR. LENTON: Yes.

12 MR. SWANSON: That concern was voiced.  
13 And actually the impetus for the physical habitat  
14 monitoring that I was talking about, it was  
15 twofold. One was to start a process that would  
16 begin to get our understanding up to a point where  
17 we could integrate a physical habitat, change the  
18 erosion sedimentation, turbidity piece into the  
19 CAMP monitoring program. And we're doing that  
20 associated with Manitoba under that MOU. So it  
21 was done for that reason. But it was also done  
22 because it was done at Playgreen specifically  
23 because that concern was raised, and there was  
24 previous information. There isn't data at this  
25 point to reconcile them but that's the intent of

1 that program, to determine to what extent there  
2 has been change and begin to associate the  
3 ecosystem parameters that are sampled with  
4 physical change and water management. That's what  
5 the MOU is about. So we are in the process of  
6 starting to reconcile that question.

7 MR. LENTON: Thank you. That's very  
8 informative. So I believe I have sort of one  
9 small heading of questions and Mr. Sweeny may have  
10 already answered part of it. I was looking  
11 through the IR questions and Peguis First Nation's  
12 question number 104 in this Manitoba Hydro  
13 indicates that it does not provide assistance to  
14 commercial fishermen on Lake Winnipeg. Now of  
15 course Mr. Sweeny has told us in his presentation  
16 that there are -- he's told us about the programs  
17 that are available sort of in an ancillary manner  
18 and there's of course the agreements which, you  
19 know, may compensate certain aspects of effects  
20 from Lake Winnipeg Regulation. I was just hoping  
21 for some clarification on the conditions or the  
22 scenarios where Manitoba Hydro might be willing to  
23 step in and help commercial fishermen,  
24 particularly on Playgreen Lake. I mean besides  
25 the shoreline erosion.

1                   MR. SWEENEY: That may be one way that  
2   Manitoba Hydro works with commercial harvesters.  
3   Even although the commercial fishery is part of  
4   the Master Implementation Agreement that the  
5   commercial fisheries is tied to, right, and where  
6   it covers off the commercial fishery for past and  
7   future damages. But what I would say, there's  
8   also the unforeseen aspect that's tied to some of  
9   the comprehensives that deal with some of those  
10  issues. However, we have our ongoing programming  
11  that we work with the fishers along with the  
12  programs that they establish locally through the  
13  funding that's provided through those Master  
14  Implementation Agreements.

15                  MR. LENTON: So my understanding is  
16  that although the Fishermen's Co-op is party to  
17  the Master Implementation Agreement, they weren't  
18  really consulted on it. It was sort of in place.  
19  And then they were brought in when it was time to  
20  talk about dollars and cents for compensation, but  
21  that they weren't really consulted in the creation  
22  of it. Is that the case? Am I correct in that  
23  understanding? Just to note that the Fishermen's  
24  Co-op is independent from the Norway House Cree  
25  Nation.

1                   MR. SWEENEY: That would be a no.  
2 Norway House commercial fishery is identified as  
3 the community organization.

4                   MR. LENTON: Well, the chief and  
5 council has designated them as their fishers of  
6 course. So they fall under that status. But my  
7 understanding is that the Chief and Council is  
8 sort of at their pleasure, but they could just  
9 designate another group as the fishermen. And  
10 Norway House Fishermen's Co-op would lose their  
11 status under the agreement.

12                  MR. SWEENEY: I'm not aware of that.

13                  MR. LENTON: Well, this is just to say  
14 that my understanding was that the Fishermen's  
15 Co-op was, although a recipient under the Master  
16 Implementation Agreement, was really consulted in  
17 its creation or how it applies to them. But do  
18 correct me if I'm wrong in that.

19                  MR. SWEENEY: I don't think I'd agree  
20 with that statement.

21                  MR. LENTON: In what respect?

22                  MR. SWEENEY: Well, the Norway House  
23 Fishermen Co-op was part of the, as I mentioned  
24 earlier, the community -- identified the community  
25 organization. And I understand that the

1 comprehensive agreements, there was a ratification  
2 process to accept the agreement itself. And so I  
3 understand the Fishermen Co-op would have been  
4 consulted.

5 MR. LENTON: Perhaps we just disagree  
6 on what the meaning of "consulted" is. I do agree  
7 that they did sign on to it but I just think -- my  
8 understanding is that it was late in the process  
9 as opposed to being early. But I just wanted to  
10 see if my understanding was correct on that. I  
11 don't believe any of my further questions turn on  
12 that.

13 And I actually don't believe I have  
14 any further questions. So thank you very much.

15 THE CHAIRMAN: Thank you, Mr. Lenton.

16 I will now invite any members of the  
17 public sitting in the back of the room who might  
18 have questions of Manitoba Hydro. If any of you  
19 do, please come forward now. Not nearly as many  
20 people sitting at the back of the room as there  
21 were an hour or so ago. It doesn't appear that  
22 there are any members of the public today who wish  
23 to grill Manitoba Hydro.

24 We're not going to start another  
25 cross-examination now as it would inevitably have

1 to be interrupted. So we will, in a couple of  
2 moments, adjourn for the afternoon. This panel  
3 will be back tomorrow morning at 9:30. We will  
4 start off I think next on the list is Sagkeeng,  
5 although I'm not sure that they are asking any  
6 questions. And following them would be Consumers  
7 Association and then Pimicikamak.

8                   And we will return tonight from 7:00  
9 until 9:00. We have a full list of members of the  
10 public who wish to make presentations. If anybody  
11 again at the back of the room who wishes to make a  
12 presentation is not on the list, they should  
13 contact Amy at the back of the room and we'll do  
14 our best to accommodate you tonight or at a future  
15 date. So unless there are any other items of  
16 business to deal with right now, we will adjourn  
17 until 7:00 p.m.

18

19                   (Proceedings recessed at 4:42 p.m. and  
20 reconvened at 7:00 p.m.)

21                   THE CHAIRMAN: Good evening. We will  
22 commence the evening session. This evening's  
23 session has been reserved for presentations by  
24 members of the public. We have a full slate of  
25 eight people which will fill up our two hours. I

1 would just like to remind the presenters that they  
2 are limited to 15 minutes and that rule will be  
3 strictly enforced. I will flash a five minute  
4 card, a one minute card, a please wrap up card,  
5 and then the time is up card. And if you are  
6 still talking when the time is up card is up, the  
7 sound man will cut you off. Sorry about that, but  
8 we have to enforce that rule if we are going to  
9 get everybody in this evening. We have to be out  
10 of here by 9:00 o'clock.

11 We will be swearing in people who make  
12 presentations. It is part of our procedural  
13 guidelines. So I'm going to get right down to it.  
14 I have a list and the order in which they will be  
15 presenting, the first person up is Mr. Mike Mason.  
16 You just come up to the front table right here,  
17 sir.

18 I will just direct your attention to  
19 the Commission secretary.

20 Mike Mason: Sworn.

21 MR. MASON: Thank you. My name is  
22 Mike Mason and I'm a cottage owner and seasonal  
23 resident of Victoria Beach, and currently the  
24 president of the Victoria Beach Cottage Owners  
25 Association.

1 THE CHAIRMAN: No chattering in the  
2 back of the room please. I'm sorry.

3 MR. MASON: Firstly, I would like to  
4 thank the panel for having me on the agenda  
5 tonight. Tonight I'm also pleased to see on the  
6 agenda one of our council members and our reeve.  
7 In previous hearings you have also heard from  
8 others from Victoria Beach, and in upcoming  
9 hearings you will also hear from more VB'ers.  
10 This certainly underscores to me the importance of  
11 Lake Winnipeg to our community.

12 I have had the pleasure and  
13 opportunity to spend my entire life enjoying  
14 summers on Lake Winnipeg, and I have a great  
15 passion for the lake, its communities and its  
16 beaches. I enjoy swimming, sailing, paddling, and  
17 enjoying the lakes beautiful beaches and shores.  
18 My children are also having these opportunities.  
19 It is different now, though. While they love the  
20 lake, they also worry about the lake. They worry  
21 about algae and look to see if the algae today is  
22 blue green, or if it is just regular algae. They  
23 also worry about high water events and the loss of  
24 our shoreline, damage to our friends' and  
25 neighbours' properties and damage to our beaches.

1 To me this outlines our responsibility to future  
2 generations.

3           This panel has been charged with a  
4 momentous task, and with that, please accept my  
5 thanks for taking on this sizeable responsibility.  
6 Outcomes of this hearing process can and will  
7 affect Lake Winnipeg and Manitobans for decades to  
8 come. Therefore, it is imperative that this  
9 process does not yield to the pressures of today,  
10 but puts the needs of Lake Winnipeg at the  
11 forefront.

12           Lake Winnipeg is vital to the Manitoba  
13 economy, and the lake is truly one of nature's  
14 gifts to our province and our country. As  
15 Manitobans, as Canadians, we have been given the  
16 responsibility of being the custodians of this  
17 great lake. To date I feel that we have somewhat  
18 failed in this regard. Currently Lake Winnipeg  
19 suffers from excessive nutrient loading causing  
20 the eutrophication of the lake. Massive nutrient  
21 increases in Lake Winnipeg in the 1990s has lead  
22 to doubling of phytoplankton biomass and a shift  
23 to the very toxic blue-green algae dominance.  
24 This affects the health our lake, our health, and  
25 our economy.

1                   Lake Winnipeg also suffers in the last  
2   few decades from very high water levels that  
3   continue to have a negative impact on our  
4   shorelines. Many communities, particularly in the  
5   south basin, have seen massive erosion of the  
6   shorelines which have resulted in the loss of both  
7   private and public lands.

8                   These two processes, eutrophication  
9   and high water, if not addressed, will continue to  
10  adversely impact Manitoba's economy. Simply  
11  stated, Lake Winnipeg is one of world's largest  
12  lakes, and now it has the disturbing title as one  
13  of the world's most threatened lakes from the  
14  Global Nature Fund.

15                  As citizens, we have a responsibility  
16  to improve conditions on Lake Winnipeg. This  
17  responsibility should be shouldered by  
18  individuals, by local government, by the  
19  Provincial Government, by the Federal Government,  
20  and by other provinces and U.S. States in Lake  
21  Winnipeg's massive catchment.

22                  This responsibility should also be  
23  shouldered by Manitoba Hydro. Hydro and only  
24  Hydro are in the unique position to use Lake  
25  Winnipeg as a reservoir for hydroelectric power

1 production and to regulate the lake between 711  
2 and 715. With this unique position, I believe  
3 that Manitoba Hydro should take on greater  
4 responsibilities related to the health of Lake  
5 Winnipeg and the erosion of Lake Winnipeg  
6 shorelines.

7                   We should listen to experts that  
8 indicate that we should participate actively in  
9 the protection of wetlands and natural shorelines  
10 for the benefit of healthy lakes and healthy  
11 communities. As a requirement of their licence,  
12 Hydro should participate actively in the  
13 protection of wetlands and the natural shorelines  
14 of Lake Winnipeg.

15                   Hydro should listen to Dr. Gordon  
16 Goldsborough, who presented to this panel that in  
17 his considered opinion that Lake Winnipeg  
18 Regulation has contributed to the loss of emergent  
19 plant loss in Netley-Libau marsh by reducing the  
20 frequency of low water periods critical to  
21 maintenance of healthy plant stands. He goes on  
22 to say that one management strategy would be  
23 alteration of the Lake Winnipeg Regulation  
24 protocol to permit two year low water periods with  
25 a frequency of roughly 10 to 20 years. This

1 should be seriously considered as a condition of  
2 the licence to regulate.

3           Is there a role for Hydro in some of  
4 Dr. Goldsborough's other recommendations which  
5 could help restore the Netley-Libau marsh by  
6 construction of a structure at the Netley Cut to  
7 regulate flow through it, and resumption of  
8 dredging at the Red River mouth.

9           In a recent Baird Engineering report  
10 presented to this Commission, the report also  
11 indicated that a comprehensive technical study of  
12 shoreline evolution at a variety of locations  
13 around the lake of pre and post regulation era is  
14 required to further evaluate possible linkages  
15 between water level regulation and sandy shore  
16 evolution.

17           This technical study should also be  
18 undertaken by Hydro in conjunction with the  
19 Provincial Government as a condition of the  
20 licence to better understand the relationship  
21 between water level regulation and its effects on  
22 our shorelines. With these investigations two  
23 important questions could be answered. Number 1,  
24 how do the pre and post regulation erosion rates  
25 compare? Number 2, how does the post regulation

1 erosion rate compare to the hypothetical scenario  
2 of no regulation structures from '76 to present  
3 day?

4                   A similar approach has also been  
5 proposed by Vicki Burns from Save the Lake  
6 Winnipeg project. They presented to this panel  
7 that "Studies to fully ascertain the impacts of  
8 the current regulation regime, and then to  
9 forecast the implications of altering the  
10 parameters of the regulation requirements," is an  
11 opportunity to put in place a balanced and modern  
12 approach, taking into consideration the 40 years  
13 of experience that Manitoba Hydro has now  
14 accumulated.

15                   In a May 2014 letter to the CEC from  
16 the Manitoba Association of Cottage Owners, this  
17 theme of further study is also echoed. The  
18 association outlines ten areas of study that they  
19 would like to see included in the scope of  
20 investigations for this panel to consider. I  
21 would also encourage this panel to seriously  
22 consider these areas of study.

23                   While we don't concretely know what  
24 effect lake regulation has on eutrophication, it  
25 seems to me that Lake Winnipeg remains somewhat

1 understudied. There has not been enough research  
2 done to be able to make any definitive  
3 conclusions, therefore, more research is needed.

4           As a result of a massive low pressure  
5 system over Lake Winnipeg in October of 2010,  
6 which significantly damaged the shorelines and  
7 caused flooding throughout Victoria Beach, the  
8 Victoria Beach community embarked on a multi-year  
9 journey. This journey resulted in a shoreline  
10 advisory committee and contracting Baird  
11 Geotechnical Engineering to study our shorelines  
12 and advise our municipality on ways to preserve  
13 and protect our beaches, shorelines and mitigate  
14 flooding. This process is ongoing and is a  
15 science based approach to shoreline management  
16 that can serve as a model for other communities in  
17 the south basin. It includes artificially  
18 nourishing shorelines to address shoreline  
19 erosion, rather than build negative impacting  
20 shore parallel structures. It may also include  
21 protecting shoreline ecosystem habitat and natural  
22 shoreline flora.

23           This could be an opportunity for  
24 Manitoba Hydro to actively participate with  
25 communities in the protection of our natural

1 shorelines and beaches. For the privilege to  
2 regulate Lake Winnipeg, Manitoba Hydro could and  
3 should partner with communities like Victoria  
4 Beach that are looking to implement thoughtful,  
5 science based, community stakeholder based  
6 shoreline management plans that protect our  
7 natural beaches and shorelines. To be clear, when  
8 I say partner, Hydro could work closely with  
9 communities to research, develop, and help fund  
10 shoreline management plans. This is an  
11 opportunity, an opportunity for Hydro to be a  
12 leader in sound environmental management, and for  
13 Hydro to help contribute to building resilient  
14 shoreline communities that have the capacity to  
15 sustain disturbances such as erosion and flooding  
16 events. Perhaps until the effects of lake  
17 regulation are far better understood and more  
18 definitive steps are in place by Hydro to work  
19 closer with Municipal, Provincial and Federal  
20 governments and the science community, so a  
21 comprehensive plan can be put in place which will  
22 yield positive net effects for the health of the  
23 lake and its shoreline communities, a shorter term  
24 licence should and could be considered by the CEC  
25 for Hydro. Thank you.

1 THE CHAIRMAN: Thank you, Mr. Mason.

2 Any questions? Thank you, Mr. Mason.

3 Next on our list is Brian Hodgson.

4 Brian Hodgson: sworn.

5 THE CHAIRMAN: Go ahead, sir.

6 MR. HODGSON: Thank you for this  
7 opportunity. My name is Brian Hodgson and I'm the  
8 reeve of the municipality of Victoria Beach. My  
9 family has owned their cottage there since 1945,  
10 and I have seen the effects that continued high  
11 lake levels have had on our shoreline. Lake  
12 Winnipeg is a valuable resource for many reasons,  
13 recreational resource, commercial resource and a  
14 hydro resource, and we all need to learn to live  
15 with it and manage it properly.

16 Manitoba Hydro has plans to increase  
17 its generating capacity to support Manitoba's  
18 population and industrial growth. It also wants  
19 to increase its generating capacity, enabling it  
20 to sell power to our American neighbours in an  
21 effort to offset the cost of providing electricity  
22 to Manitobans. Hydro claims it needs to be able  
23 to have the lake controlled to 715 feet above sea  
24 level in order to meet this increased demand. It  
25 is this forecast demand for the exports where

1 there appears to be a short-sightedness on  
2 Manitoba Hydro and its advisors, who are  
3 forecasting the increases for hydro sales to the  
4 U.S. and Canada.

5 In addition to the new hydrocarbon  
6 resources in the U.S. that can be used for  
7 hydroelectric generation, innovation and improved  
8 methods for providing new and better products have  
9 been the mainstay of the economic growth of many  
10 industries in Canada and the U.S. And they are  
11 continuing and will continue to impact on the  
12 estimates for new hydro generation.

13 While researching material for this  
14 presentation, I came across many new and  
15 innovative concepts and products which I believe  
16 will change the requirement for Hydro's need to  
17 increase its generating capacity to the extent it  
18 is forecasting. Wind turbines and solar  
19 generation are increasing all across North  
20 America. In a recent flight from Texas to  
21 Winnipeg, I saw hundreds, possibly thousands of  
22 wind turbines. Ontario has provided funding for  
23 hundreds and possibly thousands of solar panel  
24 installations to augment the online power demand.  
25 An example of the effects of the new innovation

1 and technology, the Minneapolis St. Paul  
2 International Airport is planning a three megawatt  
3 solar power installation to generate nearly 20  
4 percent of the airport's electricity needs, which  
5 is to be completed this fall. And they will also  
6 have changed over 7,700 parking lamps to LED  
7 lamps.

8                   Researchers at Harvard have discovered  
9 how to convert solar energy into liquid fuel,  
10 potentially accelerating our switch to the  
11 alternative energy source. According to an  
12 article in the Scientific Journal, Proceedings of  
13 the National Academy of Sciences, they have  
14 developed a method of using the sun to split water  
15 into hydrogen and oxygen and then combining  
16 hydrogen with carbon dioxide to form isopropanol  
17 which can be stored as a liquid fuel.

18                   Another important development which  
19 has been improved upon continuously is nuclear  
20 fusion. This technology has been around for  
21 decades, and the design and improvements being  
22 made now will soon put economical electrical  
23 generation by means of nuclear fusion within reach  
24 of every jurisdiction, thusly negating the need to  
25 transport electrical energy over great distances

1 at astronomical costs.

2           The hydrogen fuel cell is proven  
3 technology which has been continuously improved  
4 upon and can provide means of clean, green  
5 electrical generation to the end user. Fuel cells  
6 are appealing because they generate very little  
7 pollution. They are not economical yet, but  
8 advances are continuously being made.

9           Whether it is electricity generated by  
10 hydrogen fuel cell, wind turbine, solar cell,  
11 fusion, nuclear fusion, or the introduction of LED  
12 lighting, all are on the cusp of great advances in  
13 capability and cost efficiency. How will these  
14 new and improved methods of using, generating and  
15 storing power affect Manitoba Hydro's long term  
16 export forecast? If these advances are not  
17 incorporated in an export equation, Manitoba Hydro  
18 will potentially be building massive generation  
19 and transmission capacity which may never be used.

20           I present all of the above information  
21 to show that just possibly Hydro has not done its  
22 due diligence to the fullest extent, and that they  
23 may not need the generating capacity presently  
24 being forecast. These new technical innovations  
25 must be considered before billions of dollars are

1 spent based on their existing forecast which  
2 cannot be substantiated.

3                   Lake Winnipeg is the water reservoir  
4 which Hydro relies upon for its capacity to  
5 generate the power it presently needs and is  
6 forecasting to be needed for domestic and export  
7 sales. Given the possibility that the increased  
8 capacity may not be needed, should Manitoba Hydro  
9 be given a long-term licence which allows it to  
10 maintain Lake Winnipeg at levels which are  
11 detrimental to the health of the recreational and  
12 biological aspects of the lake and marshes?

13                   The lack of low water levels over the  
14 past years has resulted in many pollutant filled  
15 marshes disappearing. Private property has  
16 disappeared into the lake as a result of the  
17 erosion and the lack of natural sand  
18 replenishment, which historically occurred during  
19 low water and south wind conditions. A lack of  
20 low water has resulted in the destruction of many,  
21 if not most, of the public recreational sand  
22 beaches around the south basin. With the  
23 continuously high water levels, wave action takes  
24 the sand off the beaches into the deep water.  
25 With continuous high water, the natural wave

1 action is unable to scour the lake bottom and  
2 return the sand to the beaches. Normally in the  
3 past when this were south winds and low south  
4 basin lake levels, which historically happened  
5 before regulation, the beaches were rebuilt by  
6 nature. This does not happen anymore. Lower  
7 water levels are needed for this to happen.

8 Manitoba Hydro is still seeking more  
9 export contracts with the U.S. and they have not  
10 yet built the generating capacity to provide that  
11 export. I propose that Manitoba Hydro be given a  
12 5 year temporary licence with the regulated levels  
13 restricted between 711 and 714. This will allow  
14 Manitoba Conservation, Manitoba Hydro, and other  
15 environmental organizations to evaluate the  
16 effects of the low water levels on the ecological  
17 and physical aspects of the south basin.

18 Manitoba Hydro's ability to prevent  
19 mother nature from raising the lake levels above  
20 715 may be aided by having the maximum regulated  
21 level at 714 to start with. Just possibly it may  
22 not exceed the 715 level, as it has in recent  
23 years when we get exceptional weather conditions.

24 The municipalities and private  
25 landowners around the south basin of Lake Winnipeg

1 have spent millions of dollars trying to prevent  
2 erosion caused by high water levels. The  
3 continued expense by these entities is not  
4 sustainable. The municipality of Victoria Beach,  
5 a municipality of only seven square miles and  
6 2,300 taxpayers, has spent over \$400,000 on  
7 engineering studies for shoreline protection. The  
8 study recommendations propose a cost in excess of  
9 \$5 million to protect a small portion of their  
10 shoreline. Multiples of this will be needed to  
11 protect the balance of the shoreline. That is  
12 just one municipality. If the shoreline erosion  
13 continues due to high water, and massive amounts  
14 of financial aid are not forthcoming, the  
15 recreational resource which Lake Winnipeg provides  
16 to the population of Manitoba will be further  
17 impacted negatively. Land values will depreciate,  
18 tax bases will disappear, tourism will decline,  
19 and the province will suffer economically.

20 Manitoba Hydro and the Government must  
21 balance the economic impact of the need to  
22 regulate the lake level to 715, based on  
23 questionable export forecasts and changing market,  
24 with the loss of tourism, recreational and  
25 commercial revenues generated by a healthy, well

1 managed lake.

2                   As I have proposed, the Commission  
3 should give Hydro a new temporary licence for five  
4 years, with the maximum of 714 above, and  
5 establish an independent group to monitor the  
6 marshes and shorelines to see if there are any  
7 improvements.

8                   Manitoba Hydro must be required to  
9 monitor weather events and water flows from the  
10 entire catch basin and be proactive in reducing  
11 the lake levels in advance of the water levels  
12 reaching the regulated threshold. They must  
13 re-evaluate their forecast for future electrical  
14 sales and reassess the level to which the lake  
15 needs to be regulated to provide the proper  
16 balance between Hydro's profit and the  
17 recreational quality of Lake Winnipeg and the  
18 health of the marshes.

19                   If Hydro's new and improved forecast  
20 confirm that there likely would be reduced demand,  
21 then some of the billions of construction dollars  
22 saved could be used to improve their ability to  
23 safely increase the outflow from Lake Winnipeg  
24 through their system, so as to not cause flooding  
25 and hardship on the downstream communities.

1 Baird Engineering has prepared a  
2 report for the Provincial Government  
3 which states, "The latest  
4 intergovernmental panel on climate  
5 change report projects even greater  
6 variability in our weather in the  
7 forthcoming decades due to climate  
8 change. McCullough predicts the trend  
9 of introducing inflow to Lake Winnipeg  
10 will continue in the future. These  
11 anticipated future conditions could  
12 lead to higher lake levels unless the  
13 rules for regulation are changed or  
14 the Jenpeg outflow structure is  
15 monitored to accommodate higher  
16 discharge rates."

17 The Canadian Taxpayers Federation  
18 calculated Manitoba's debt to be exceeding \$30  
19 billion in 2013. Should the present Provincial  
20 Government be adding another \$24 billion in debt  
21 for Manitoba Hydro alone, this, to build dams and  
22 transmission lines for shaky export markets  
23 against prevailing expert advice?

24 There is another factor I would like  
25 the Commission and Hydro to look at. The new

1 channel being constructed to reduce the level of  
2 Lake Manitoba is going to put more water into Lake  
3 Winnipeg in the north basin. Hydro and the  
4 Government just estimated that it will only raise  
5 the lake level by an inch or two. When the north  
6 winds blow for several days, it will push that  
7 extra water from the north basin, with its surface  
8 area 15 times that of the south basin, into the  
9 south basin. What will that increased wind  
10 generated lake level be in the south basin with  
11 that extra inch or two of water movement in the  
12 north basin? Will that extra water in the north  
13 basin delay the movement of water out of the south  
14 basin and cause levels to remain elevated causing  
15 shoreline erosion to increase and the nutrient  
16 levels to remain high in the south basin?

17 Does the one or two inches of wind  
18 adjusted lake level that Hydro states that  
19 regulation has contributed over the last umpteen  
20 years to the average lake level have the same  
21 effect on the lake?

22 In recent documents which I have read,  
23 it is apparent that isostatic rebound effect on  
24 Lake Winnipeg is in fact a force which must be  
25 considered when calculating the actual lake level.

1 If in fact the north end of Lake Winnipeg has  
2 rebounded by 10 centimetres since Hydro began  
3 regulation on the lake, it could be interpreted to  
4 mean that the actual water level in the south  
5 basin is, in effect, 10 centimetres higher than  
6 the level measured at the north end of the basin.  
7 Given that six of the lake level gauges are in the  
8 north basin and only two in the south basin, one  
9 might assume that unless Hydro has been  
10 continuously adjusting their calculations, that  
11 they are in fact underestimating the wind adjusted  
12 level of the lake.

13 In the real world, wind adjusted  
14 levels are meaningless when it comes to shoreline  
15 erosion. The maximum wind adjusted level has been  
16 about 718 feet at its worst case, whereas in  
17 actuality the water level in the south basin was  
18 in excess of 721 feet above sea level, causing  
19 major flooding and shoreline damage in many areas.  
20 One would think that knowing the isostatic rebound  
21 was, is, and will continue to occur, Manitoba  
22 Hydro would be actively working towards increasing  
23 their ability to maximize the flow from the lake,  
24 from Lake Winnipeg to ensure adequate flow for  
25 their generating stations in the future.

1                   I have not read the whole interim  
2   operating licence which was put in place 30 or 40  
3   years ago, but I wonder if it states that the lake  
4   would be regulated within the 711 to 715 feet wind  
5   adjusted level, or was it not specified? In  
6   either case, I can assure you that the average  
7   person, that the average person in 1970, hearing  
8   that the lake would be regulated to control the  
9   levels within that range, did not consider the  
10  wind effect and the fact that the south basin  
11  could actually rise to 720 above sea level, or  
12  above that, and Hydro would still be within their  
13  operating range and not have to release any water.

14                  I'm sure I was not alone in thinking  
15  Manitoba Hydro would be able to reduce the lake  
16  levels if their 715 maximum was exceeded, but  
17  apparently they can not. The estimates of 40  
18  years ago of the expected maximum inflow to the  
19  lake appear to have been flawed. What other  
20  estimates did they make that did not account for  
21  climate change? Ignorance of the facts is not an  
22  excuse, but it is a fact that the average  
23  Manitoban had no idea of what damage Manitoba  
24  Hydro was about to do to Lake Winnipeg.

25                  As the steward of the lake, Hydro must

1 be held responsible for the proper  
2 management of that resource and  
3 changes must be made to their  
4 operating licence to ensure that  
5 happens. The International Institute  
6 of Sustainable Development submission  
7 said, "We encourage Manitoba Hydro and  
8 other stakeholders to view upstream  
9 storage in wetlands and distributed  
10 storage systems as reservoirs tied  
11 into Hydro. The volume of Lake  
12 Winnipeg as a reservoir is small, but  
13 water could be stored upstream rather  
14 than in the lake itself."

15 Their recommendations need to be  
16 implemented as soon as possible.

17 In the meantime, Hydro needs its  
18 licence, which I stated earlier should be a five  
19 year temporary licence with the wind corrected  
20 level of 714. While that happens, all of these  
21 recommended studies should be undertaken and the  
22 updated forecast considerations taken into account  
23 before a permanent licence is considered. Thank  
24 you.

25 THE CHAIRMAN: Thank you Mr. Hodgson,

1 bang on perfect on the time.

2 Next on the list is Penny McMorris.

3 Penny McMorris: Sworn

4 THE CHAIRMAN: Go ahead.

5 MS. McMORRIS: Thank you for the  
6 opportunity to present at these hearings. My name  
7 is Penny McMorris and I'm a property owner in the  
8 RM of Victoria Beach. I'm in my second term as an  
9 elected councillor for the RM of Victoria Beach,  
10 and I'm a property owner in the City of Winnipeg.  
11 My presentation is not made on behalf of the RM VB  
12 Council, but as a private citizen. However, some  
13 of my comments and information are based on  
14 information that I have learned or been made aware  
15 of as an elected official.

16 Over the past 40 years or so our  
17 municipality has corresponded with the various  
18 Provincial Governments and Manitoba Hydro  
19 regarding water levels and the impacts on our  
20 shorelines. In the early 1970s, my father-in-law,  
21 Dr. McMorris, was a councillor for RM of Victoria  
22 Beach. At that time and in that capacity, he  
23 wrote a letter to the Province regarding a plan to  
24 allow Manitoba Hydro to apply for a licence to  
25 regulate the level of Lake Winnipeg. He wrote of

1 the need for more studies to be done on the  
2 impacts that controlling the water levels at any  
3 level higher than 711 or 712 would have on the  
4 shorelines in our municipality. He wrote about  
5 the impacts of erosion and flooding that our  
6 municipality had already experienced with high  
7 water and wind effects on our mostly sandy  
8 shoreline. He discussed the high financial,  
9 physical and emotional impacts then and into the  
10 future that the protection of our shorelines and  
11 the protection of our shoreline properties would  
12 cost all of our taxpayers. He asked for the  
13 Provincial Government and Manitoba Hydro's support  
14 and for financial discussions to occur that would  
15 help defray some of the many costs.

16 In a letter to our municipality dated  
17 May 13th, 1976, from the director of operations  
18 for the water resources division, it was noted  
19 that the expected level of Lake Winnipeg would  
20 reach 715.7 feet during late May '76, and then  
21 recede. Emergency dykes were to be constructed to  
22 a minimum level of 719 feet.

23 My father-in-law was a member of the  
24 RM of VB Council for 29 years, reeve for 23 of  
25 those. He registered his concerns with Hydro's

1 proposed licence to regulate Lake Winnipeg for the  
2 first time in 1973, and I'm presenting to you over  
3 40 years later with virtually the same concerns  
4 and requests.

5           The shorelines of our municipality,  
6 indeed most of the shorelines in the south basin  
7 were hit extremely hard in the weather bomb of  
8 October 2010. Our municipality put together a  
9 shoreline advisory group made up of members from  
10 every area of our small RM to work for a solution  
11 for our community. Norm Branson was hired as a  
12 neutral knowledgeable facilitator, and the head of  
13 the Provincial Government's shoreline erosion  
14 technical committee was also a contributing member  
15 of our group. We had numerous meetings and three  
16 public forums, and the group put together a  
17 document to help us move forward.

18           As you have already heard, one of the  
19 recommendations of the group in the community was  
20 to hire an engineering firm to study the science  
21 of our shorelines and come up with a shoreline  
22 management plan. The municipality hired Zuzek of  
23 Baird and Associates Coastal Engineers out of  
24 Toronto to work with us to develop a plan to  
25 protect and preserve our shorelines and our

1 beaches. To date our taxpayers have spent close  
2 to \$500,000 on this plan. We are grateful for a  
3 \$100,000 grant from the province in the early  
4 stages.

5           It is interesting to note that the  
6 Manitoba Clean Environment Commission recently  
7 commissioned a report from Pete Zuzek of Baird  
8 entitled Lake Winnipeg Erosion and Accretion  
9 Processes, a compendium to the Lake Winnipeg  
10 Shoreline Management Handbook.

11           I commend you for enlisting his  
12 expertise, and I understand that Mr. Zuzek will be  
13 presenting his report to the CEC on March 23rd.

14           Manitoba Hydro and members of the  
15 Manitoba Government should be very familiar with  
16 the work that Baird has done on Lake Winnipeg in  
17 the past. Baird worked with StanTec Consulting  
18 Limited in September 2000 to research and prepare  
19 the Lake Winnipeg Shoreline Erosion Study for the  
20 Lake Winnipeg Shoreline Erosion Advisory Group.  
21 Much of the information from that study was  
22 incorporated into the Manitoba Conservation Lake  
23 Winnipeg Shoreline Management Handbook in March of  
24 2001. It continues to be the go to guide for the  
25 Shoreline Erosion Technical Committee under

1 Conservation and Water Stewardship.

2                   Unfortunately, SETC can only make  
3 recommendations on shoreline protection  
4 structures. They do not have any legal power,  
5 authority or jurisdiction to ensure that shoreline  
6 protection around the south basin is done to  
7 prescribed engineering codes or specifications.  
8 That is left up to each individual municipalities  
9 or planning districts to deal with or not.

10                   I would like to be able to ensure that  
11 our shorelines are protected and preserved in a  
12 cohesive effective manner, and the RM VB Shoreline  
13 Management Plan is almost ready to present to the  
14 taxpayers in that regard.

15                   When Manitoba Hydro began regulating  
16 the outflow of Lake Winnipeg in 1976, climate  
17 change was not really a topic of discussion. The  
18 extreme rare weather storms that we witnessed in  
19 the past few years are out of Manitoba Hydro's  
20 control. The excessive amounts of water that are  
21 now pouring into Lake Winnipeg from the almost one  
22 million square kilometre watershed is not  
23 something that Manitoba Hydro can control. The  
24 Netley-Libau marsh in the south basin has been  
25 flooded consistently, which makes it unable to

1 regenerate the natural filter that marshes provide  
2 to our water, and the water quality in our lake is  
3 severely compromised.

4           So what can Manitoba Hydro control or  
5 manage in a more sustainable way, while still  
6 providing the electricity required for all of its  
7 customers? According to a study written by  
8 Mr. Raymond Hesslein titled "An Assessment of the  
9 Effects of Regulation of the Outflow of Lake  
10 Winnipeg on the Levels of the Lake," he maintains  
11 that there are excellent records of all of the  
12 major inflows into the lake, the Winnipeg River,  
13 Saskatchewan River, Red River, and the  
14 Assiniboine, going back to 1913. Dr. Hesslein  
15 goes on to say that at levels between 711 and  
16 715 feet, Manitoba Hydro can operate the outflow  
17 to benefit its electricity production. Manitoba  
18 Hydro needs to work towards maintaining a lower  
19 lake level, possibly 714 feet, which would allow a  
20 necessary and acceptable balance for their power  
21 needs, the property owners' safety, and shoreline  
22 retention and protection. Utilize the statistics  
23 and records available to predict inflow thereby  
24 allowing better management of the outflow.  
25 Ensuring that those downstream of the dam on the

1 Nelson River are safe and protected is also  
2 imperative.

3 Manitoba Hydro is a valuable resource  
4 for our taxpayers of Manitoba and for our  
5 Provincial Government. We enjoy relatively low  
6 electricity rates and our Provincial Government  
7 enjoys a steady, rather healthy financial income  
8 from the sale of electricity to Manitobans and our  
9 neighbours. Lake Winnipeg provides the Province  
10 and Manitoba Hydro with that rich resource.

11 The lakeshore municipalities, property  
12 owners, and those who make their living on the  
13 lake need to know that they can count on the  
14 Province and Manitoba Hydro to financially  
15 participate in their erosion and flood protection  
16 planning and implementation. Help us work towards  
17 solutions to protect our properties and our public  
18 beaches for all to enjoy. Work with us to ensure  
19 that financial burdens of shoreline protection and  
20 preservation are not all shouldered by the  
21 taxpayers and property owners in small  
22 municipalities. Work with us to ensure that  
23 cohesive, sound engineering practices are used  
24 when private or public shorelines require erosion  
25 or flooding protection. Recommend a regulation of

1 Lake Winnipeg to a manageable level, between 711  
2 and 714 feet, that will afford the sensitive  
3 shorelines some room for extreme weather,  
4 destructive winds and the resulting wave uprush,  
5 as climate change continues to affect us all.

6 Lake levels from June 15, 2014 to  
7 October 19, 2014, ranged from 715 feet on  
8 June 15th, remained at 717 or 718 very  
9 consistently until October 12th, and then went as  
10 low as 714 on October 19th, only to rise again to  
11 716 on October 26th. The top of the current  
12 operating range is supposed to be 715 feet.

13 This past spring and summer and fall,  
14 our incredibly hard working emergency measures  
15 organization crew from our municipality again  
16 repaired or reconstructed our dykes that now must  
17 be a minimum level of 722 feet, as dictated by the  
18 Province, and a full three feet higher than the  
19 1976 minimum dyke requirements.

20 Manitoba Hydro and the Provincial  
21 Government need to work with climatologists,  
22 scientists, engineers, and the many special  
23 interest groups and organizations focused on Lake  
24 Winnipeg and her watershed. It needs to be a  
25 priority to work with these groups and other

1 governments to find sustainable ways to protect  
2 and rejuvenate the Netley-Libau marsh, to improve  
3 the quality of our lake. We must be stewards of  
4 Lake Winnipeg and support research to find ways to  
5 combat aquatic invasive species, and to help find  
6 ways to clean up the lake. The benefits that we  
7 and the Provincial Government all receive from  
8 Manitoba Hydro are huge, and so too must our  
9 efforts be to give back and support the  
10 communities and the people who live, work and play  
11 on and in Lake Winnipeg.

12           The Provincial Government and Manitoba  
13 Hydro need to seriously consider reducing the top  
14 operating range in the final licence to 714 feet,  
15 providing adequate financial contributions to  
16 communities who are struggling with erosion,  
17 flooding and financial implications, the high  
18 water levels on our shorelines must be part of the  
19 final licence agreement.

20           The Provincial Government and Manitoba  
21 Hydro's participation in permanent dykes and  
22 community shoreline protection programs should be  
23 a priority. I know that the RM of Victoria Beach  
24 would welcome the opportunity to meet with  
25 Provincial Government officials and Manitoba Hydro

1 to discuss our shoreline management plan and to  
2 share the research that lead to this plan.  
3 Together we can benefit many municipalities along  
4 Lake Winnipeg's shorelines.

5 Thank you very much.

6 THE CHAIRMAN: Thank you. Next we  
7 have Cheryl Kennedy Courcelles.

8 Cheryl Kennedy Courcelles: Sworn.

9 MS. KENNEDY COURCELLES: Thank you  
10 Chairman Terry Sargeant for the opportunity to  
11 speak and for chairing this hearing. A huge thank  
12 you goes out to the Minister of Conservation and  
13 Water Stewardship and team for allowing us the  
14 opportunity to speak in regards to Lake Winnipeg  
15 Regulation and its impacts on our ecosystem.

16 My name is Cheryl Kennedy Courcelles  
17 and I live near St. Adolphe, Manitoba, along the  
18 Red River, which is about ten minutes south of the  
19 Red River floodway inlet structure. As a mother  
20 and as a sociologist, I'm here to speak to you  
21 this evening about the negative effects that we  
22 are currently experiencing living under Lake  
23 Winnipeg Regulation, LWR. I shall speak on behalf  
24 of those who do not have a voice, be that our  
25 small children, our unborn children, our elderly,

1 and those of us whose spirit has been broken. I  
2 also speak on behalf of water energy, as well as  
3 all of the wildlife and ecosystems that live in  
4 the Lake Winnipeg watershed basin.

5           What I know for sure is that prior to  
6 1970, Lake Winnipeg was a natural healthy lake.  
7 The citizens of Manitoba and all of our abundant  
8 wildlife and ecosystems flourished and lived in  
9 harmony with our sacred Lake Winnipeg for the most  
10 part. The rebounding effect of receding glacial  
11 ice has had very little negative effects on the  
12 well-being and health of the lake, wildlife and  
13 ecosystems. The uplift has been gradual and  
14 peaceful, allowing all life to co-exist in a  
15 non-threatening manner, quite opposite to the Lake  
16 Winnipeg Regulation. Water is life, water is  
17 sacred. And we all know that without a good clean  
18 supply of drinking water, we die, all life dies.

19           Lake Winnipeg Regulation has taken the  
20 divine resource, water, the birthright of every  
21 Canadian citizen, and has turned it into an  
22 unhealthy state, yet an economic source of income,  
23 our Provincial cash cow so to speak. This is an  
24 immense burden and responsibility to put on the  
25 backs of Manitoba and Canadian citizens.

1                   Manitoba Hydro is not a clean energy  
2 source of power, as the CEC has uncovered by all  
3 the brave citizens and organizations who have come  
4 forward to tell their truths. The Lake Winnipeg  
5 Regulation keeps Lake Winnipeg artificially at  
6 levels that it would not naturally be at. This  
7 artificial regulating of the lake has brought  
8 great harm and suffering to all life that lives  
9 downstream of the dams and turbines, keeping lake  
10 Winnipeg at an artificially high lake level has  
11 also seen the killing and the destruction of our  
12 critical lake habitat, be that the marshes,  
13 beaches, shorelines and their ecosystems. This  
14 leads to further destruction in fish, snails,  
15 clams, animals and bird species in their natural  
16 habitat. The sturgeon cannot take advantage of  
17 cheaper Hydro rates. The sandpiper does not get  
18 to receive any flood mitigation when its nests and  
19 shorelines is washed away but yet once again. We  
20 do not see the caribou lining up to get a good  
21 Hydro job, nor are the muskrats or beavers filling  
22 out forms to have their homes flood proofed again  
23 and again.

24                   What we do see is that these animals  
25 cannot predict what water energy is going to do

1 anymore. The animal kingdom does not get our  
2 emails and tweets, media notices, government ads  
3 in the paper, radio and TV announcements that  
4 Hydro is once again going to operate its  
5 artificial water moving infrastructures. They  
6 have no way of knowing this information. It is  
7 unnatural, and their instincts and sacred  
8 knowledge leave them unprepared for the  
9 destructive force of artificially moving water,  
10 especially when it happens in the time of the year  
11 when that water would not normally be moving up  
12 and down. We do not have the right to sacrifice  
13 the wildlife and the ecosystems for economic short  
14 term gain.

15                   The world is respectively changing how  
16 we view the animal kingdom and their inherent  
17 rights. An Argentine court ruled that an  
18 orangutan has some human rights and it is to be  
19 set free to live her life as naturally as she can.  
20 And we shall see the world making great strides in  
21 the natural rights of animals, including the  
22 wildlife.

23                   I do recognize that Manitoba Hydro has  
24 done some mitigating on this critical matter, but  
25 they certainly have much more funding to do in

1 restoring the wildlife habitat, as well as in  
2 education, research, development and protection  
3 practices of all species, large to small.

4           For example, it has been  
5 scientifically proven that fish can feel. So to  
6 slowly freeze them in too shallow of water, or to  
7 not set up the fish ladders and send them into  
8 turbines to be ground up is just totally  
9 unacceptable management practices on behalf of our  
10 Crown corporation, Manitoba Hydro. When we know  
11 better, we do better immediately.

12           We do have a responsibility to the  
13 Aboriginal peoples and their treaty rights to be  
14 good stewards of the land and water. And our  
15 current artificial operating the lake at 711 to  
16 715 ASL is failing this responsibility. I foresee  
17 in our near future that all water rights shall  
18 belong to all of the treaties all across Canada.  
19 Future economic gains and sustainability of the  
20 sacred waters shall automatically include  
21 Aboriginal people, including Metis, both in  
22 ownership and in consultations.

23           As seen in the pages and pages of  
24 testimony from the LWR CEC hearing, the Aboriginal  
25 people commonly were not consulted when it came to

1 water issues that would affect their livelihood,  
2 language, culture and peaceful way of raising  
3 their families, that is before this hearing I'm  
4 talking about. LWR has failed once again the  
5 citizens of Manitoba and Canada.

6 Manitoba Hydro should not receive a  
7 permanent long-term licence to operate. They  
8 should stay with a temporary licence until further  
9 consultation, mitigation, and ownership with First  
10 Nations has been properly and thoroughly done.  
11 And if LWR permanent licence is ever granted, it  
12 shall remain on a five year renewal basis until  
13 the life of the whole project is over, thus  
14 allowing all Aboriginal people, stakeholders, and  
15 concerned citizens the right and opportunity to  
16 give feedback about its successes and failures,  
17 thus allowing the ability and responsibility for  
18 change to happen for the good of all, especially  
19 for the water, the wildlife and eco-system.

20 The Manitoba Floodway Authority have a  
21 similar five-year feedback best practices action  
22 plan, and it is proving to be a much better way of  
23 professionally and respectfully dealing with their  
24 artificial flooding mandates and operations. By  
25 providing an open-ended responsible line of

1 respectful communication to be put in place by  
2 either Hydro and/or the Manitoba Government  
3 through the CEC, shall help resolve some of the  
4 stressful and very scary tensions that are  
5 currently existing in our northern communities  
6 right now, and as well at the LWR infrastructure  
7 locations, and/or on our disappearing shorelines  
8 and marshes. Tempers flare when people are not  
9 listened to, and there is no reason for this by  
10 any Government party, department, or Hydro  
11 operations or persons. It is important to  
12 apologize so that healing can occur.

13                   Points of concern, number 1, I agree  
14 with almost every presenter that has spoken to the  
15 CEC in regards to the effect LWR is having on him  
16 or her and their way of life. The heart of the  
17 continent and keepers of sacred waters have been  
18 heard, and I know that Chairman Terry Sargeant  
19 with the CEC and his commissioners shall in the  
20 21st century do right by all of us presenters. I  
21 also believe that in the millennium and under the  
22 current best practices of management and  
23 environmental sustainability, that our governments  
24 shall also act in the best interests of society  
25 and the environment, and not just for one industry

1 any more.

2                   Number 2, I totally agree with  
3 International Institute of Sustainable Development  
4 and Ducks Unlimited vision of how to help Manitoba  
5 Hydro with not only cleaner water in the  
6 reservoir, but to also establish and re-establish  
7 land infrastructure reservoir. That will be  
8 critical not only keeping the lakes less toxic and  
9 more stable, so that LWR does not have to go up  
10 and down, but to also secure other sources of  
11 water in times of drought. Right now we have all  
12 of our eggs in one small draining damaged basket.  
13 A strategic large basin management practices is  
14 the way of our sustainable healthy future. It  
15 gives the citizens and the ecosystems hope and a  
16 renewed energy to find the harmony and  
17 profitability for all.

18                   Number 3, I agree with all of the  
19 presenters who are asking for more science and  
20 traditional knowledge studies to be done on LWR,  
21 Lake Winnipeg and Lake Manitoba and their  
22 watersheds. We are the keepers of the water and  
23 we owe it to our children, children times seven at  
24 the very least, to restore the health and  
25 sustainability of our sacred waters.

1                   Number 4, I do not understand why the  
2   Federal Government is not at the CEC hearings.  
3   Both the First Nations and the Navigable Waters  
4   fall under their domain. I would like to see  
5   another CEC hearing involving both the Federal  
6   Government and the International Joint Commission  
7   in the near future regarding our Manitoba  
8   environmentally sustainable waters.

9                   Number 5, I would like to see a CEC  
10   public hearing regarding specifically the outflows  
11   of waters from any and all of Manitoba Hydro's  
12   infrastructures. The good people of Churchill did  
13   not even know what LWR was, not to mention the  
14   possible negative effects of letting 50 percent  
15   more toxic water into Hudson Bay is going to do to  
16   the polar bears, to our seals, whales, birds,  
17   fish, wildlife, local community and so on. These  
18   hearings have only scratched the surface of the  
19   adverse effects that are happening to the  
20   outflows, be they mitigated or not. We can no  
21   longer stick our heads into the disappearing sand  
22   bars and say we didn't know. I would like to see  
23   a CEC hearing on more of Hydro's operations and  
24   the state of the environment and the citizens.

25                   Number 6, I agree with Dr. Gorden

1 Goldsborough, Dr. Eva Pip, Vicki Burns and dear  
2 Charlie, and all of the concerned citizens and  
3 organizations that stand up for the marshes, our  
4 sacred wetlands, the very kidneys of the lakes.  
5 We have to forgive our past actions and ignorance  
6 and move on. We have to fund wetland restoration  
7 sustainable practices as the top priority all over  
8 our province and country. Manitoba Hydro should  
9 be our number one supporter in all of these  
10 initiatives.

11                   Number 7, I look forward to a CEC  
12 public hearing to be held about LWR on Lake  
13 Manitoba, seeing as how we are artificially  
14 draining it to help secure Hydro's need of a  
15 continual high water level, and hence a second  
16 reservoir. The aboriginal peoples, stakeholders  
17 and citizens on Lake Manitoba also have a right to  
18 be consulted and heard.

19                   Number 8, we have to do a better job  
20 of providing Hydro employment opportunities and  
21 education to people in communities around the  
22 lake, especially to the downstream of the  
23 operation. The numbers need to be reported in the  
24 follow up of every five years.

25                   Number 9, we have to do a better job

1 of providing jobs of -- sorry, we have to do a  
2 better job of providing all of our communities  
3 with safe drinking water, especially those of whom  
4 LWR has negatively affected.

5           Number 10, Manitoba Hydro and the  
6 Federal Government have to be a better job of  
7 upgrading Aboriginal homes and infrastructures so  
8 that most of their money is not being spent on  
9 Hydro bills. Currently they are living under the  
10 most severe adverse effects of LWR, and yet they  
11 have some of the highest Hydro bills in the  
12 province. This is just plainly not right and it  
13 needs immediate action.

14           Number 11, if LWR has adversely  
15 affected the health and well-being of a person,  
16 family, community, and their very lives are in  
17 danger, then they should be bought out at a fair  
18 market value.

19           Number 12, LWR is negatively affecting  
20 the financial worth of one's property and homes  
21 around the lakes and rivers in its watershed, and  
22 they too need to be compensated by Hydro at a fair  
23 market value.

24           Number 13, I disagree that Hydro has  
25 nothing to do with the inflows into the lake. In

1 the RM of Richot alone, you can see ads in our  
2 local paper offering community improvement funding  
3 paid by Bipole III initiative to projects that  
4 enhance drainage. This is just one example of the  
5 different types of funding that Manitoba Hydro,  
6 and every level of government, including the  
7 Federal Government has used to clear the land of  
8 surface water for the last four decades.

9           Number 14, I agree with building  
10 resilient shoreline communities with further  
11 setbacks and larger riparian areas. It is  
12 extremely important to put the wild back into our  
13 habitat.

14           Number 15, the Northern Flood  
15 Agreement needs to be honoured and have third  
16 party follow-up. Manitoba Hydro has to remain  
17 accountable to its actions, promises and signed  
18 agreements.

19           Number 16, adequate funding needs to  
20 be awarded to those communities who are downstream  
21 from the Hydro operations to which they no longer  
22 can continue to work, live, play in their  
23 traditional and spiritual and cultural ways.

24           Number 17, it is time to monitor the  
25 inflows and outflows of both lakes as well as all

1 of Hydro's infrastructure, so that we get a better  
2 educated handle on exactly the amounts of water we  
3 are moving and when. These records shall remain  
4 open to the public to review.

5           Number 18, I strongly believe that LWR  
6 is adversely affecting the overall health and  
7 sustainability of Lake Winnipeg, and soon to be  
8 Lake Manitoba. And the whole world can see what  
9 we have done by satellite image, and shame on us.

10           Number 19, LWR has negatively affected  
11 almost every way of making a life, making a living  
12 on or around the lake, whether you are a farmer,  
13 fisher, hunter, trapper, small business owner,  
14 tourism and so on.

15           Number 20, I see a bright future with  
16 Manitoba Hydro and the Government's funding  
17 projects that help store the water in land  
18 reservoirs, both big and small and economic for  
19 all. The faster we can hold back water from  
20 entering the lakes and yet still be available for  
21 Hydro production and climate change control, the  
22 faster we get rid of Hydro's need to operate LWR  
23 so high.

24           21, I would like to see LWR operate at  
25 711 to 713 ASL, and if mother nature allows it to

1 drop lower once or twice in a decade or two, we  
2 should allow it to happen for the overall  
3 rejuvenation of the entire eco-system and wildlife  
4 habitat. It is greedy and foolish of us to  
5 sacrifice our lakes, ecosystems, wildlife and  
6 families to try and sell Hydro futures of energy  
7 we can not even store. Those potential customers  
8 are realizing it is not a green energy in the  
9 first place and do not want to be a part of  
10 destroying our sacred waters? Can we blame them?  
11 Not. Mega-sizing does not work, it fails in time,  
12 every time.

13                   22, my family, my community and myself  
14 are negatively affected by LWR and its continual  
15 high lake level operations when Lake Winnipeg or  
16 Lake Manitoba levels exceed their natural capacity  
17 and start to move backwards either down the Red  
18 River and/or up the Assiniboine, and there is a  
19 need to operate the Red River Floodway in that  
20 structure to hold the water back from entering  
21 Winnipeg, and in return it artificially floods the  
22 water on to us who live in the RM of Richot and  
23 beyond. My father and brother have also decided  
24 to not commercially fish anymore because of the  
25 current dangers and lack of fish after 40 years of

1 fishing.

2                   23, there should be at least one  
3 commissioner or chair, preferably 25 per cent of  
4 the work force of Aboriginal descent present in  
5 all CEC hearings, outings and as part of the CEC  
6 work force.

7                   24, LWR shall be teaching society to  
8 save power in order to save the environment. More  
9 teaching and marketing of the sustainability  
10 vision and action is also needed all over Manitoba  
11 and Canada.

12                   25, I wear a red dress today in honour  
13 of all of the heart wrenching 1,200 missing  
14 Aboriginal women and girls, and I ask that every  
15 Hydro person and all people who live in Lake  
16 Winnipeg watershed to ask questions, to look under  
17 every rock and in every ounce of water for them.  
18 It is time for answers, it is time to stand  
19 together united, it is time to stop abuse for all.

20                   In closing, thank you for the  
21 opportunity to share my knowledge and experience  
22 with you. I'm grateful to each and every person  
23 who has participated in the LWR CEC hearing, and  
24 especially the Chairman Terry Sargeant and the  
25 passionate and talented environmental warriors or

1 commissioners and their team. We are all  
2 passionate about preserving our precious water and  
3 ecosystem, like our old sand beaches that we share  
4 with the endangered sandpiper, or the millions of  
5 migratory birds in their nests, to save the  
6 majestic caribou, and our national emblem, the  
7 sacred beaver. Beaver stands for building, doing,  
8 for family, water and land energy, everything that  
9 we value. We have to stop killing the beavers.  
10 We are a generation who are too in love with  
11 electricity, and we have to accept our actions are  
12 seriously harming our environment by the choices  
13 we are making.

14 I have full faith in all of you that  
15 have come forth at the CEC that we can peacefully  
16 realign a successful and sustainable vision and  
17 action plan for LWR. Our children are counting on  
18 it, and our grandparents still know the way back  
19 to life before LWR. Time for change is now.  
20 Peace for all, respectfully yours.

21 THE CHAIRMAN: Thank you.

22 MS. KENNEDY COURCELLES: Can I have a  
23 question?

24 THE CHAIRMAN: Yes.

25 MS. KENNEDY COURCELLES: When I read

1 through the notes, if people in all of the  
2 different communities, if a person heard another  
3 speaker and then had a question, I know the time  
4 wouldn't allow us to ask questions, but I was  
5 wondering if we would still be able to submit  
6 written work into the Commission if we have  
7 already submitted ours?

8 THE CHAIRMAN: Yes.

9 MS. KENNEDY COURCELLES: Thank you.

10 THE CHAIRMAN: Okay, Mr. William  
11 Braun.

12 Will Braun: Affirmed.

13 THE CHAIRMAN: Go ahead.

14 MR. BRAUN: Good evening, it is a  
15 pleasure to be here. Thank you for the  
16 opportunity.

17 My name is Will Braun, I work for the  
18 Interchurch Council on Hydropower on whose behalf  
19 I'm presenting here, and some of our members are  
20 in the room with us.

21 The purpose of our council is to  
22 monitor what happens at the northern end of the  
23 transmission lines. We advocate for fair  
24 treatment of people and lands affected by the  
25 Hydro system. Our council includes official

1 representatives of the Catholic, Lutheran and  
2 Mennonite, United churches, and our work is rooted  
3 in a 40 year history of Interchurch involvement on  
4 Hydro issues. We speak as citizens and users of  
5 electricity.

6 My comments will focus on impacts  
7 north of Lake Winnipeg and also on the licensing  
8 process, and I will have some specific  
9 recommendations along the way.

10 First I want to review the  
11 recommendations made by this Commission in the  
12 2004 Wuskwatim report. At that time the CEC  
13 recommended that, if you will forgive me for  
14 quoting yourselves back to you, the recommendation  
15 I quote:

16 "The Government of Manitoba require  
17 Hydro to resolve all outstanding  
18 issues with regard to Lake Winnipeg  
19 Regulation. Following resolution of  
20 these issues, Manitoba Hydro should  
21 apply for the appropriate final  
22 licences under the Environment Act and  
23 the Water Power Act as soon as  
24 possible."

25 The Commission further recommended

1 that the process:

2                    "...should include a review of the  
3                    terms and conditions, an operational  
4                    review, and any required environmental  
5                    impact assessments."

6 And I just want to test the current situation  
7 against six elements in those recommendations, and  
8 I will take them in a different order than they  
9 appear there.

10                    First, the Commission recommended that  
11 the Hydro apply for a Water Power Act final  
12 licence. That has happened.

13                    Second, the CEC recommended that the  
14 licensing process should happen as soon as  
15 possible. That was more than ten years ago.

16                    Third, the CEC recommended that any  
17 required environmental impact assessments be  
18 conducted as part of the final licensing process.  
19 And by any professional standard, any sort of  
20 cumulative requirement of an impact assessment of  
21 LWR has not been done.

22                    Fourth, the CEC recommended that an  
23 operational review be undertaken. In 2007 a water  
24 stewardship official wrote to us saying:

25                    "The final licensing process may be

1 thought of as including an operational  
2 review of the project. Project  
3 impacts have been addressed under the  
4 Northern Flood Agreement."

5 Has this licensing process truly included the sort  
6 of operational review that the CEC envisioned? I  
7 would suggest that such a review would involve  
8 examining operation of the system to try and  
9 identify ways that environmental impacts could be  
10 minimized, sort of to re-adjust the balance  
11 between power generation and other interests. And  
12 if this has indeed been done, why has Hydro  
13 proposed no changes to the licence parameters?

14 I have appended to my written  
15 submission a two-page explanation of an  
16 operational review that was undertaken of the  
17 Nipigon River in Ontario, which has three hydro  
18 dams. And it just provides an interesting  
19 example, I think an instructive one of what an  
20 operational review actually can look like and the  
21 kind of concrete changes that it can lead to.

22 Fifth, the CEC recommended in 2004 a  
23 licensing process under the Environment Act. Our  
24 government has chosen not to do this. So this  
25 project that has significant impacts on the

1 largest lake in the province and the largest river  
2 in the province is not going to be licensed under  
3 the primary piece of environmental legislation in  
4 the province. It will be licensed only under the  
5 Water Power Act, an act that's intended to  
6 allocate rights to projects that divert, use or  
7 store water for power purposes. And this act, as  
8 Water Stewardship staff have pointed out to us,  
9 makes no mention of the environment. It is not an  
10 environmental law. That makes this proceeding in  
11 some sense an environmental hearing into a  
12 licensing process that technically has nothing to  
13 do with the environment. Of course, we find  
14 ourselves in some politicized space perhaps beyond  
15 the letter of the law.

16 That said, some years ago government  
17 officials ensured us that environmental conditions  
18 can be added to a Water Power Act licence. That  
19 leaves everything, though, sort of at the pleasure  
20 of the Crown, sort of regulation and water  
21 management by ministerial discretion, and we see  
22 opportunity for greater regulatory rigor.

23 Six, the CEC recommended in 2004 that  
24 Manitoba Hydro resolve all outstanding issues with  
25 regard to LWR. The message you heard recently in

1 Cross Lake was not that Hydro has resolved all  
2 outstanding issues. And I am willing to wager  
3 that when you go to Norway House, the message will  
4 be similar.

5           Since 2009 our council has had written  
6 and in person communication with the various  
7 elected leaders and government staff about final  
8 licensing of LWR and the Churchill River  
9 Diversion. They point to the Northern Flood  
10 Agreement as evidence that issues have been  
11 resolved, that view Hydro also put forward in the  
12 December letter to you.

13           The NFA is a broad agreement with many  
14 provisions and I just want to highlight one that  
15 is easily understood and quantifiable to make a  
16 point. Article 3 promises four acres of new  
17 reserve land for every acre affected by the  
18 project. Quite simple. Has this been completed?  
19 No, it has not been completed in the case of  
20 Pimicikamak, nor in the case of Norway House Cree  
21 Nation, which obtained expanded land transfer  
22 commitment under the '97 implementation agreement.  
23 This merely illustrates that just because the NFA  
24 was signed does not ensure that issues are  
25 resolved.

1                   We further submit that if you were to  
2 travel the waterways between Warren Landing and  
3 Jenpeg in open water season you would see a  
4 preponderance of outstanding issues.

5                   In its 2011 request for a final  
6 licence Manitoba Hydro stated:

7                   "Before requesting the final licence,  
8 Manitoba Hydro resolved outstanding  
9 LWR issues with First Nation  
10 communities and resource users groups  
11 inhabiting the area along the LWR  
12 waterways."

13                  We submit that statement is  
14 inaccurate. It is probably not even wise to think  
15 in terms of resolving outstanding issues as if  
16 they were something to take off a list. The NFA,  
17 for instance, sets out a long-term relationship,  
18 and that notion of an equitable ongoing  
19 relationship for the lifetime of the project is  
20 probably more useful than this notion of resolving  
21 issues.

22                  To recap, the CEC recommended Water  
23 Power Act licensing, Environment Act licensing,  
24 operational review, environmental assessment,  
25 resolution of outstanding issues, and that it all

1 be done as soon as possible. We submit that Hydro  
2 and the Province are one for six. The regulatory  
3 process for Lake Winnipeg Regulation has been  
4 minimized and narrowed and dragged out.

5 In terms of specific recommendations  
6 arising from that, we would recommend to you that  
7 your report note these 2004 recommendations, and  
8 we would recommend, I suppose it is recommending  
9 that you recommend that the following conditions  
10 be placed on the LWR final licence: Completion of  
11 land transfer under the NFA within five years,  
12 assessment of the implementation of other NFA  
13 provisions, completion of a cumulative  
14 environmental assessment within three years, and  
15 an operational review within three years.

16 And we would also suggest to you as  
17 panel members to take an opportunity to see the  
18 good portion of the land between Warren Landing  
19 and Jenpeg in open water season, ideally from the  
20 air and from a boat.

21 I would like to move on to six more  
22 relatively brief points that I will try to tuck  
23 neatly in my 15 minutes.

24 LWR licensing, I don't think it is  
25 best to reduce it to a single number, it is not

1 about 715 feet versus 714 or 716. I think that's  
2 outdated understanding of water regime management.  
3 We submit that while an operating range should be  
4 included in the final licence, a better approach  
5 is to establish a multi-party decision making body  
6 that would determine on an ongoing basis how to  
7 operate the system. Such a mechanism would serve  
8 to better balance power generation with other  
9 interests such as flood control, both upstream and  
10 downstream of Jenpeg, as well as indigenous use of  
11 lands and waters. I would note that such a body  
12 would be able to then make use of an environmental  
13 assessment and an operational review, even if  
14 those are not completed by the time a final  
15 licence were granted. So it's sort of the notion  
16 of an ongoing body that balances the decision  
17 making as opposed to one time sort of set of  
18 parameters.

19                   Next, the Water Power Act governs  
20 water rental payments, though technically rental  
21 fees for Jenpeg fall under the Jenpeg licence,  
22 which is distinct from the LWR licence.  
23 Regardless, we believe that water rental payments  
24 should go to the affected indigenous peoples  
25 rather than to the province. In the case of

1 Jenpeg it would work out to somewhere in the range  
2 of \$2.1 million a year. And we note that the 2014  
3 process agreement between Hydro, the province and  
4 Pimicikamak commits the parties to discuss that  
5 sort of allocation of water rental payments. So  
6 we believe then that the LWR final licence should  
7 be contingent on finalization of a Jenpeg licence  
8 in which water rental fees are paid to Pimicikamak  
9 and Norway House Cree Nation instead of Manitoba.

10           Next, operation of Lake Winnipeg  
11 Regulation has resulted in the deaths of several  
12 Pimicikamak citizens. Some deaths happened as a  
13 result of boating accidents caused by half  
14 submerged wood debris, other deaths were caused by  
15 hanging ice or otherwise unsafe and unpredictable  
16 ice conditions attributable to the LWR. We lament  
17 the fact that people have died entirely  
18 preventable deaths so that we can enjoy the  
19 convenience of electricity, and we would hope that  
20 your report arising from this hearing would  
21 acknowledge that LWR has cost lives.

22           Next, LWR serves two purposes, as you  
23 know, to increase power generation potential and  
24 to reduce flooding on Lake Winnipeg. Of course,  
25 some dispute that latter claim, but let's accept

1 it for now. The latter is achieved by making  
2 outlet channels that increase the outflow  
3 potential from Lake Winnipeg. During high water  
4 times then, these increased flows essentially turn  
5 the area downstream of Jenpeg into what one might  
6 call a floodway. Manitobans understand these  
7 sorts of flood reduction mechanisms, the  
8 well-being of the few sacrifice for the well-being  
9 of the many, and the few should be compensated  
10 generously. And there is a compensation agreement  
11 of that nature in place for Cross Lake  
12 Pimicikamak, though it is quite recent. So we  
13 recommend that your report acknowledge this  
14 floodway factor, and that perhaps that this panel  
15 test the adequacy of the high water compensation  
16 arrangements for Cross Lake, Pimicikamak and  
17 Norway House, and perhaps the need for retroactive  
18 compensation.

19                   Next, LWR operates in territory  
20 covered by Treaty 1, Treaty 2, Treaty 3 and Treaty  
21 5. These Treaties provide the legal basis without  
22 which the province would not be able to grant  
23 rights for the use of lands and waters. So we  
24 recommended that LWR final licence acknowledge  
25 these Treaties in its whereas clauses.

1                   Finally, we live in an age of  
2   reconciliation between indigenous people and the  
3   rest of us. I think it is an important moment, it  
4   is a moment of opportunity. In a statement of  
5   apology delivered in Cross Lake on January 20th  
6   this past year, Premier Selinger mentioned  
7   reconciliation several times.

8                   "We recognize that reconciliation is  
9                   an ongoing process and are committed  
10                  to work with communities toward  
11                  further reconciliation."

12   Hydro's CEO, Scott Thomson, has used similar  
13   language about working a spirit of reconciliation.  
14   In some ways the technicalities and legalities of  
15   a licensing process may seem ill suited to  
16   something as spirited and intangible as  
17   reconciliation, but at the same time I think if  
18   reconciliation is to be more than just words or  
19   sentiments, maybe it needs to find expression in  
20   exactly these sorts of things such as water power  
21   licences.

22                  Now, this afternoon Mr. Cormie spoke  
23   about the balance of various interests or needs,  
24   to paraphrase him, interest related to regulation  
25   of Lake Winnipeg. And he said that that balance

1 was set back in the '70s when the licence was  
2 granted. I suppose it is stating the obvious to  
3 say that things have changed since the '70s, and  
4 perhaps I would suggest that the licence could  
5 also change. But in requesting a final licence,  
6 Hydro has requested no changes to the licence.  
7 Reconciliation, I would suggest, requires change.  
8 Change is exactly what is needed, and this is an  
9 opportunity. Business as usual does not lead to  
10 reconciliation. And I think that reconciliation  
11 has to get at the core issues, and for Lake  
12 Winnipeg Regulation the core issues are water  
13 levels, water flows, rental payments and decision  
14 making power. Should all of those remain  
15 unchanged? Can reconciliation happen on the  
16 sidelines of those key issues? So we recommend  
17 that the final licence include a preamble  
18 referencing the Premier's apology, and also  
19 framing the licence in the context of  
20 reconciliation.

21 To conclude, the Jenpeg dam is set in  
22 concrete, the licence is not. The final licence  
23 cannot be a licence for business as usual. This  
24 is an opportunity for change, for reconciliation.

25 I thank you and I wish you well in the

1 task ahead of you.

2 THE CHAIRMAN: Thank you Mr. Braun.

3 Next is Morris Desautels.

4 Morris Desautels: Sworn

5 MR. DESAUTELS: Thank you for the  
6 opportunity to speak to the Commission today on  
7 behalf of the Winnipeg River Property Owners  
8 Group. My name is Morris Desautels. I represent  
9 the Winnipeg River Property Owners Group. Our  
10 group consists of property owners along the north  
11 shore of the Winnipeg River, within approximately  
12 two kilometres immediately downstream from the  
13 Winnipeg generating station.

14 We understand that the Clean  
15 Environment Commission has been asked by the  
16 Minister of Conservation and Water Stewardship to  
17 consult with communities about the impacts and  
18 effects of Lake Winnipeg water regulation by  
19 Manitoba Hydro, to report back to the Minister on  
20 the concerns from people and provide  
21 recommendations about how to address these  
22 concerns.

23 We want to bring forward our concerns.  
24 Our properties are in the immediate path of the  
25 water outflow and turbulence created by the dams,

1 turbines and spillway. Our banks are high on the  
2 north shore, and with the dam operation,  
3 particularly after enhancement of the dam's  
4 capacity in the 1990s, all of our properties have  
5 sustained extensive damage. Unlike properties  
6 further downstream and along the lakeshores, our  
7 properties, in addition to being affected by wave  
8 action, wind forces and fluctuating water levels,  
9 are being eroded through constant undermining of  
10 our shorelines and banks by the soil and currents  
11 created by the dam, causing slumping of shorelines  
12 and making river water turbid and muddy.

13           Manitoba Hydro placed riprap along all  
14 of our property shores very early in the dam's  
15 life in the 1960's. This to us indicates that  
16 Manitoba Hydro is aware that their operation does  
17 significantly impact our properties. The riprap  
18 did not fix the problem.

19           Members of our group have approached  
20 Manitoba Hydro individually on many occasions  
21 since the early 1990s to plead for a solution for  
22 some form of assistance to save our land and  
23 homes. Hydro would send representatives based on  
24 these requests, and we were usually told that  
25 other areas had priority, or that there were no

1 funds available at the time, leaving us thinking  
2 that our shorelines and river bank slope would  
3 eventually be repaired.

4           Some of us were offered assistance  
5 over the years in the form of attempts to  
6 stabilize the shoreline on their property, and on  
7 one occasion an offer to purchase a property was  
8 made by Manitoba Hydro.

9           On February 12th, 2015, after meeting  
10 with Hydro representatives twice in the previous  
11 two and a half years as a group, we received a  
12 formal letter from Manitoba Hydro stating that we  
13 will not be assisted in shoreline and bank repair  
14 or purchase. Their decision is based on the  
15 contents of the Water Power Act for the Pine Falls  
16 generating station, and our properties fall  
17 outside the limits of the Water Power Act licence  
18 boundary. However, Manitoba Hydro by the same  
19 token did purchase properties outside of their  
20 licence boundary just upstream from us, because,  
21 as they state, and I quote:

22           "A failure of Manitoba Hydro's  
23 property had regressed on to adjacent  
24 private property making the solution  
25 our responsibility."

1                   The erosion of our properties as a  
2 result of Manitoba Hydro's diversion of the  
3 natural flow of the Winnipeg River, and  
4 manipulating -- manipulation of water levels has  
5 had the following impacts on us. We live in fear  
6 and stress. Our properties have lost value  
7 because of erosion. It will be difficult to sell  
8 our homes. And those that have sold in recent  
9 years have taken significant losses. Many of us  
10 invested in our properties as part of a retirement  
11 plan, and instead are now left with our  
12 investments ever dwindling. When we look out of  
13 our windows each day we are afraid to see more  
14 property fallen away. At times we are at risk of  
15 injury because of the river bank erosion and slow  
16 stability. For example, when mowing the lawn  
17 along the erosion lines, one of us rolled his  
18 lawnmower, falling into a newly developed crevice  
19 in the ground. He was fortunate not to have been  
20 seriously injured. We do not feel safe letting  
21 our children and grandchildren play in our yards,  
22 fearing they will fall into suddenly developed  
23 crevices formed by the erosion.

24                   Manitoba Hydros environment management  
25 policy states that they, and I quote:

1                    "...recognize their responsibility as  
2                    caretakers of the economy and the  
3                    environment for the benefit of present  
4                    and future generations of Manitobans,  
5                    and their responsibility to meet the  
6                    electricity needs of present and  
7                    future Manitobans in a manner that  
8                    ensures the long-term integrity and  
9                    productivity of our economy, our  
10                  environment, and our natural  
11                  resources, and safeguards our human  
12                  health."

13                  We, the Winnipeg River Property Owners  
14                  Group, feel that we are expected to sacrifice our  
15                  homes, land, safety, health, and life savings  
16                  without compensation to satisfy the electricity  
17                  and economic needs of the Province of Manitoba.  
18                  We ask that the Commission consider our situation  
19                  and make recommendations to hold Manitoba Hydro  
20                  responsible for damage to our shorelines and  
21                  environment as a condition of final licensing.

22                  I would like to show you the year that  
23                  picture -- a picture is worth a thousand words, so  
24                  I don't have time for too many more thousand words  
25                  so I will show you a few pictures. You might see

1 the red line is the area where we live, where our  
2 group is just below the dam. And this is the  
3 shoreline, I don't know if you can make it out,  
4 all the way along here, this is all shoreline  
5 stability, and that has dropped all the way along  
6 our properties. That's about 125 to 150 feet away  
7 from the water's edge, the slope of the land has  
8 dropped.

9 As you can see in the early years, in  
10 the '84, '87, you look at the -- you can enjoy the  
11 slope of the land, it is a beautiful natural slope  
12 which was fixed in the early '80s, this shoreline,  
13 by myself, or I had it done at my own expense.  
14 And I was talking about the riprap, how it is not  
15 doing much of anything anymore, there is a picture  
16 of it there. And this is a drop in the -- just  
17 back in 2010, you see our survey pins where I own  
18 property, and that's just dropping out. Here is  
19 another home in the fall of 2012, you can see in  
20 the fall, on photo number 7, it's just starting to  
21 crumble there. And then number 8, this was in the  
22 spring, and this is what it looked like already.  
23 There was just no way you can walk on there or do  
24 anything. And this is the area that was fixed by  
25 Hydro that, as I mentioned that they had helped

1 some of us that -- this shoreline had crumbled so  
2 close to the house that they decided to fix the  
3 shoreline. This shoreline was fixed all the way  
4 up to the river and squared off. But now you can  
5 see that it is eating up in there already. And  
6 because both sides of that property weren't fixed,  
7 it is eating into that property again. And again,  
8 this is just another picture showing what we  
9 could -- beautiful shoreline we had before and now  
10 it is all deteriorated. I had one video, but I  
11 can't see it on there.

12 Thank you very much for hearing us.

13 THE CHAIRMAN: Mr. Desautels, I just  
14 have one question. Is it your belief that this  
15 shoreline erosion was caused by high waters on  
16 Lake Winnipeg backing up the river, or this an  
17 impact from the Pine Falls generating station?

18 MR. DESAUTELES: A bit of both I would  
19 say.

20 THE CHAIRMAN: A bit of both?

21 MR. DESAUTELES: Um-hum. In the video  
22 you could see the water coming out from the dam  
23 too would -- you are diverting the natural water  
24 flow by placing a dam there. And then the change  
25 in the water levels too, it's forever changing,

1 does affect the shorelines and crumbling, sloping  
2 of the land.

3 THE CHAIRMAN: Okay. Thank you very  
4 much, sir.

5 MR. DESAUTELS: Thank you.

6 THE CHAIRMAN: Next is Brian Ellis.  
7 Brian Ellis: Sworn.

8 MR. ELLIS: Thank you, Mr. Chair and  
9 members of the Clean Environment Commission. I  
10 will begin my comments by saying that I'm truly  
11 humbled hearing some of the previous presenters.  
12 I know the group that I'm going to speak on behalf  
13 of, we have serious issues with respect to the  
14 request for licensing, the impact on our community  
15 pales in comparison to what some others have done.  
16 I am glad to be part of this because I think what  
17 is coming to our community unfortunately is what  
18 has happened to others.

19 By way of background, I'm here both  
20 personally and on behalf of Winnipeg Condo  
21 Corporation, number 323, otherwise known as  
22 Gilwell Estates. In my speaking notes there is  
23 some references, and that is primarily so I don't  
24 forget what I intended to mean. I wouldn't take  
25 it as being a full presentation.

1                   But by way of background Gilwell  
2   Estates is a bear land condo association where we  
3   jointly pay for erosion protection for the common  
4   element where our property is located. It is 29  
5   units in total. 16 of those units are on  
6   lakefront, so we are directly on the shore of Lake  
7   Winnipeg. It is a mix of full time year round  
8   residents, seasonal residents, and some folks have  
9   bought land for future use, like one of the  
10  presenters talked about, as part of a retirement  
11  plan.

12                   When I was putting this presentation  
13  together I contemplated talking about a lot of  
14  issues that the previous presenters have spoken  
15  about, made a conscious decision not to, not  
16  because we aren't supportive, but simply they are  
17  much more well versed and much more eloquent about  
18  those. But I will say that our folks are fully  
19  supportive of ensuring that marsh lands are  
20  created and that the algae bloom and nutrient  
21  loading is taken care of.

22                   Our first and foremost issue, primary  
23  concern, is the shoreline erosion.

24                   If you go to the third last page of  
25  the package that I've put forward, that is an

1 aerial view of where Gilwell Estates is located.  
2 Coincidentally when I was at the open house a  
3 couple of nights ago here, I believe it is the  
4 very same map that Hydro had sitting in its  
5 presentation. And that map had nothing on it. I  
6 wanted to point out that there are 29 people who  
7 live in the area on that map.

8           What the three lines represent are  
9 the -- where the shoreline was in 1876, in 1949  
10 and 1966. And this Google map was taken within  
11 the last couple of weeks. In 1876, since then we  
12 have lost 600 feet of shoreline. That's an  
13 average of 4.3 feet per year. When you take a  
14 look at that map, in practical terms it means at  
15 that rate in somewhere between 10 and 20 years,  
16 there will be no homes in that spot. That's an  
17 area that seemed to be sitting quite high and  
18 should be relatively safe, and it isn't.

19           Due to time limitations I'm going to  
20 sort of whip through the presentation. And I'm  
21 going to begin with what is not intended to come  
22 across as abrasively as it may, but the important  
23 thing is I wanted to be sure we got to our  
24 recommendations, then speak about our rationale  
25 behind it and then get into some discussion.

1 Normally I would have sort of soft sell a little  
2 bit.

3           But our first and foremost, our  
4 primary recommendation is that the CEC recommend  
5 that Manitoba Hydro's licence not be renewed in  
6 its current form on this application, but rather a  
7 temporary licence be granted subject to the  
8 following conditions. Coincidentally, a number of  
9 presenters this evening have come up with the same  
10 number independently of our recommendation, and  
11 you will see where we come up with that number, is  
12 that the maximum level it be allowed at is  
13 714 feet, not the 715 feet or any other such level  
14 lower than 714 feet that ensures an adequate water  
15 supply for hydro generation purposes.

16           Secondly, a creation of an alternative  
17 upstream storage capacity which comes as a  
18 recommendation from the International Institute  
19 for Sustainable Development in its submission to  
20 this same Commission. It seems if we are able to  
21 create alternative methods for storing, that the  
22 one big body doesn't need to have as much water in  
23 it, and certainly folks that have got a lot more  
24 expertise than I claim to have recommended that  
25 that occur.

1                   Thirdly, creation of methods for  
2   Manitoba Hydro to regulate flow into Lake  
3   Winnipeg. In their submission they say that they  
4   aren't in the spot where they do control that, the  
5   International Institute for Sustainable  
6   Development believes that they can have some  
7   capacity to put a tap on what goes in rather than  
8   just put a spout on what goes out. And truthfully  
9   that is a big part of the solution, if you can  
10   control what is going in as well as what is going  
11   out, that lower level is much more sustainable,  
12   much more predictable, much more regulated, and is  
13   far better for the overall environment.

14                  Fourthly, creation of a basin wide  
15   governance that includes all stakeholders and  
16   focuses on hydro generation with no harm to  
17   recreation, property or and way of life; again a  
18   recommendation by the International Institute for  
19   Sustainable Development.

20                  And finally, completion of the  
21   recommendations, and one of the earlier presenters  
22   spoke about it, there were a whole pile of  
23   promises and recommendations made that have yet to  
24   come to fruition. In 1974 a joint study agreement  
25   was signed and a summary report flowed from that

1 that said that Manitoba Hydro should be  
2 responsible for compensation for damage to  
3 property and way of life, and has a series of  
4 recommendations specifically with respect to Lake  
5 Winnipeg, including putting together some studies  
6 on how to create and enhance beaches and get sand  
7 coming back, simply because there was a prediction  
8 that the water level, the increased water level  
9 would cause erosion. A rationale for saying that,  
10 for saying what we are saying with our  
11 recommendations, the Canada Manitoba study  
12 completed in '74 predicted that regulating the  
13 lake level would have a definite impact on  
14 erosion. And they put a range on it. They said  
15 on the lower spectrum it would cause 20 per cent  
16 more erosion than normal water would do in the  
17 lake levels over a period of somewhere between  
18 five and 40 years. And the high end was that it  
19 would cause 100 per cent more erosion over a  
20 period of 20 to 200 years. It also said this  
21 increased lake erosion could be eliminated by  
22 altering the pattern of regulation to achieve long  
23 term median lake level of 713.35 feet, which is  
24 the equivalent of the average level without  
25 regulation at that point in time. That is found

1 on page 32 of that study.

2 The fact that we are recommending  
3 714 feet isn't an accident. We have an old study  
4 predicting what the outcome would be that  
5 recommended a lower level than what we are asking  
6 for.

7 The same report predicted that the  
8 lake level regulation would reduce the risk of  
9 flood, and I believe that it truly has done that,  
10 and it would reduce the risk of dyke failure, but  
11 it also said that the erosion would increase, and  
12 that's the problem that we are facing.

13 The International Institute for  
14 Sustainable Development reports that Lake  
15 Winnipeg's relatively small storage capacity  
16 creates a situation where the 715-foot level  
17 frequently is exceeded. I know that there is some  
18 talk that Hydro disputes that, so I went online  
19 this morning to try and take a look at what those  
20 levels looked like in Gimli for the longest period  
21 that I could get. And on the last page of my  
22 submission there is a graph that looks like a  
23 bunch of squiggles, because that's what it is, a  
24 bunch of squiggles, and it is in metric. So I  
25 took the liberty of going online and finding one

1 of those handy dandy conversion calculators. 715  
2 feet coincides with 217.93 metres, and if you see  
3 the two stars that I have handwritten in there,  
4 all of those lines above that are the periods of  
5 time when it exceeded the maximum that Hydro is  
6 allowed to have.

7 Now one might argue that was a wet  
8 season. It wasn't, part of it was at the  
9 beginning. And it lasted the entire summertime.  
10 It also peaked in the late months of autumn.

11 The other difficulty with residents in  
12 the south basin, particularly on the west side of  
13 the south basin, is in October, November,  
14 sometimes in September, we have an awful lot of  
15 very strong northeast winds, and that pushes huge  
16 wave action into our beach front and causes a lot  
17 of erosion.

18 So what we are recommending, we are  
19 not doing it just sort of because we think it is  
20 right, we are basing it on what we have seen for  
21 the best information that we can find. It does  
22 have an effect on lifestyle, it does have an  
23 effect on property values. And that same study,  
24 1974 study, recommended that Hydro provide  
25 compensation in circumstances where that happened.

1 Otherwise what they essentially would be doing is  
2 transferring costs of hydro generation to specific  
3 Manitobans, and in a disproportionate amount.

4           The reason we are asking for the  
5 licence to be not passed in the form that it is,  
6 it is to be shortened with the restriction. In  
7 1974 it was predicted what would happen. In 2015  
8 it happened. All kinds of things that were  
9 supposed to have occurred in that period of time  
10 haven't yet.

11           Now, we are not naive, we recognize  
12 the importance of Manitoba Hydro to our economy,  
13 and we are not saying shut them down or anything  
14 of that nature. We are not opposed to some  
15 regulation of the lake. But what we are  
16 advocating is a broader spectrum of how it is  
17 done. The concept of large basin management is an  
18 evolving art, I don't know that I would call it a  
19 science yet. There was no knowledge that that  
20 would be something that would be in existence in  
21 1974. It exists now. And we believe that getting  
22 into that kind of a discussion where all  
23 stakeholders are involved in decision-making and  
24 in talking about alternatives is what is  
25 necessary, rather than just granting a licence in

1 its present form.

2 Thank you for your time and your  
3 indulgence and for whatever consideration my  
4 submission garners, and I appreciate it.

5 THE CHAIRMAN: Thank you, Mr. Ellis.  
6 I just have one question. You mentioned this  
7 August 21, 1974 joint study agreement, I'm not  
8 familiar with that, I have read about eight dozen  
9 studies over the last few months. I can't think  
10 of that one.

11 MR. ELLIS: I have one copy, I will  
12 give it to you.

13 THE CHAIRMAN: Thank you. Is it part  
14 of the Lake Winnipeg Churchill, Nelson River Study  
15 Board?

16 MR. ELLIS: That's where I got it  
17 from.

18 THE CHAIRMAN: It is in that summary  
19 report?

20 MR. ELLIS: Yes, it is.

21 THE CHAIRMAN: We have that then. It  
22 was just the date -- I guess that was the date  
23 that they commissioned the study and --

24 MR. ELLIS: That's precisely what it  
25 was, that study flowed out of this agreement.

1 THE CHAIRMAN: Then I know what you  
2 are talking about.

3 MR. ELLIS: Thank you again.

4 THE CHAIRMAN: The last presenting  
5 group this evening is the Keewatin Public Research  
6 Interest Group. I understand that there are going  
7 to be two presenters, and between the two of you  
8 have a total of 15 minutes, am I correct? Okay.  
9 If you could introduce yourselves for the record  
10 and the Commission secretary will swear you in.

11 Warren Cariou, Sworn

12 Robin Jarvis Brownlie, Sworn

13 MR. CARIOU: Thank you, very much for  
14 agreeing to hear our information and our research  
15 findings this evening. We have decided to split  
16 our time into two, so I will begin with my  
17 presentation.

18 The main goals of my presentation are  
19 first of all to outline the cultural effects of  
20 large energy development projects upon indigenous  
21 communities, and the resulting effects upon  
22 community and individual well-being. And secondly  
23 to indigenize our concepts of energy in order to  
24 create a more just, respectful and sustainable  
25 energy practices within Manitoba.

1                   Much of the conflict that has often  
2 surrounded energy projects near indigenous  
3 communities, has happened because of fundamental  
4 misunderstandings about the role and meaning of  
5 energy in indigenous philosophies and practices.  
6 Through my own research with elders and knowledge  
7 keepers in my own Metis community and other Cree  
8 and Anishinabe communities in Canada I learned a  
9 number of teachings that I believe can help to  
10 give members of the broader public a better  
11 understanding of the ways in which large energy  
12 projects, such as Hydro development, may threaten  
13 indigenous cultural vitality and social  
14 well-being, and indeed health of indigenous  
15 people. By sharing these findings with the Clean  
16 Environment Commission I hope to provide important  
17 cultural context for the Commission's  
18 deliberations.

19                   Contemporary western society is  
20 characterized by what I called in my research the  
21 "energy unconscious," in which energy -- the  
22 source of energy is essentially invisible to  
23 consumers of that energy. So the users of it have  
24 very little idea of where the energy comes from or  
25 what the environmental and social costs of that

1 energy are.

2                   The convenience and the apparent  
3 cleanliness of electricity makes it one of the  
4 most easily disassociated forms of energy in the  
5 contemporary world. However, as has been well  
6 established by many scholars and observers,  
7 hydroelectricity does indeed have an  
8 environmental, social and cultural footprint. One  
9 that is often much more visible in indigenous  
10 communities than in the cities where most  
11 electricity is consumed.

12                   Low population densities, ongoing  
13 histories of colonial disempowerment, and the  
14 existence of alternate non-capitalist value  
15 systems within indigenous communities make them  
16 particularly vulnerable to the effects of large  
17 energy developments such as Hydro development.  
18 While such projects generally create some economic  
19 activity and jobs in the affected regions, they  
20 can also create what scholar Rob Nixon calls "slow  
21 violence," contamination of land, water, and air,  
22 health and safety crises, disruption of the social  
23 fabric and family structures, and perhaps most  
24 devastating in indigenous communities, the erosion  
25 of the people's connection to the land. Thus it

1 is not surprising that indigenous people are often  
2 in the vanguard of resistance movements that aim  
3 to stop or disrupt these projects. However this  
4 resistance is not motivated -- it is motivated I  
5 would say by something far more profound than not  
6 in my backyard ideal, or simply a reaction to  
7 perceived negative consequences of development.  
8 It is instead deeply rooted in the philosophical  
9 and spiritual contexts of specific indigenous  
10 nations and their particular territories.

11           Traditional indigenous energy use  
12 practices are characterized by what I call energy  
13 intimacy, in which a community member necessarily  
14 has direct and personal relationships with the  
15 sources of their energy. In indigenous societies  
16 it is a matter of survival to be able to locate,  
17 process and utilize energy sources for oneself,  
18 whether these sources are derived from wood,  
19 animal fat, food or other fuels. This fact also  
20 has philosophical and spiritual implications.  
21 Energy in such a concept becomes based primarily  
22 upon the relationship between the people and their  
23 land. And in indigenous cultures this  
24 relationship is not one of mastery or  
25 objectification, but rather kinship, respect and

1 responsibility. The land is conceived not as a  
2 reservoir of resources to be exploited, but as a  
3 source of gifts which humans must accept with  
4 gratitude. The reciprocity of that gift  
5 relationship results in a fundamentally different  
6 conception of energy compared to today's  
7 prevailing western ideologies of energy  
8 extraction, commodification and ownership.

9           In most indigenous cultures there is  
10 little interest in generalized concepts of energy  
11 as they are understood in western cultures, but  
12 instead there are teachings about the vitality of  
13 all beings, including the earth itself. Therefore  
14 energy in indigenous concepts is all about  
15 relationships and inevitably about ethics. Two of  
16 the most important teachings in many indigenous  
17 traditions are that no one should make demands  
18 upon nature, and no one should ever waste  
19 resources by using more than is immediately  
20 required.

21           The Omushkego Cree Elder Louis Bird  
22 explained his people's ethical obligation toward  
23 the environment when he says,

24                   "There are rules about respecting  
25                   nature and the environment, the

1 animals and the birds. If one of  
2 these were broken by a member of the  
3 family the punishment was a retraction  
4 of the benefits from nature."

5 Louis Bird also discusses the concept,  
6 the Cree concept of pastahowin, which he calls the  
7 sin against nature, which involves any action that  
8 shows disrespect to the natural world, such as  
9 wasting resources or failing to give thanks for  
10 the gifts received from the land. The punishment  
11 for an act of pastahowin is that nature withholds  
12 further gifts from the transgressor and his or her  
13 community. Re-establishing an ethical  
14 relationship with the natural world becomes then a  
15 matter of immediate survival.

16 If we are to indigenize our energy  
17 practices on a large scale in Manitoba, it will  
18 involve becoming more connected on an intimate  
19 level with the sources of energy, understanding  
20 where it comes from and how that source location  
21 is affected when that energy is extracted,  
22 processed and delivered to the user. This will  
23 also require a fundamental change in the way  
24 nature is conceived in our culture, and a move  
25 toward understanding energy as a gift rather than

1 as a commodity.

2 So I would ask that the Commission  
3 require Manitoba Hydro to not only consult with  
4 Aboriginal communities that are affected by Hydro  
5 development, but also to learn from the people in  
6 this land who have been the keepers of the water  
7 for many, many generations and who will continue  
8 to be the keepers of the water for many  
9 generations to come. Thank you.

10 THE CHAIRMAN: Thank you, Dr. Cariou.  
11 Dr. Brownlie.

12 MR. BROWNLIE: Okay. Thank you. I'm  
13 Dr. Robin Brownlie, I'm a history professor at the  
14 University of Manitoba, and my specialty is in  
15 Aboriginal history, Aboriginal government  
16 relations, and I have done a lot of work on  
17 Treaties and Aboriginal rights. So that's the  
18 area that I decided to speak about tonight. And I  
19 thank you for the opportunity to present my  
20 concerns this evening.

21 Canada signed and is bound by treaties  
22 with First Nations throughout Manitoba, and much  
23 of the rest of country. The First Nations around  
24 Lake Winnipeg are Treaty 5 peoples, who made  
25 treaty with Canada between 1875 and 1908.

1                   Canada was a very different place 45  
2   years ago in 1970 when the Lake Winnipeg licence  
3   was first put in place. It was very different  
4   especially with respect to Aboriginal and treaty  
5   rights. In practice in 1970 these rights were  
6   almost completely unenforced, when the temporary  
7   licence was issued to Manitoba Hydro. Courts had  
8   largely refused to support treaty rights, and  
9   Aboriginal people had actually been banned from  
10   hiring lawyers for several decades, between 1927  
11   and 1951. And so in that time they were unable to  
12   pursue their rights. And Canadian courts and  
13   governments largely lost sight of Aboriginal  
14   people's rights and interests. Corporations and  
15   governments in Canada learned to take for granted  
16   the ability to advance their plans without  
17   consulting Aboriginal people or the treaties that  
18   Canada had made with them.

19                   A lot has changed since then, today  
20   these rights are buttressed by the constitution  
21   and by a long series of court rulings. In the  
22   1970's, Canadian courts finally began to affirm  
23   that Aboriginal and treaty rights existed, and  
24   that the rights promised in treaties were  
25   meaningful and enforceable.

1                   Then in 1982, of course the  
2   Constitution and the Charter of Rights and  
3   freedoms were put in place. The Charter contains  
4   two particular important sections in relation to  
5   Aboriginal and treaty rights. First section 2  
6   guaranteed in the charter, "shall not be construed  
7   so as to abrogate or derogate from any Aboriginal,  
8   treaty or other rights or freedoms that pertain to  
9   the Aboriginal peoples of Canada." Second,  
10   Section 35 recognizes and affirms "existing  
11   Aboriginal and treaty rights." The charter's  
12   creates inaugurated an era of much more robust  
13   recognition and enforcement of the rights  
14   guaranteed by treaties.

15                   It seems to me very important that  
16   this changed legal context should be taken into  
17   account in this re-examination of Manitoba Hydro's  
18   licence to regulate the water levels in and around  
19   Lake Winnipeg. The extensive impact of this  
20   regulation on water levels, on water quality and  
21   ice conditions which often drastically affect fish  
22   and animal populations is directly relevant to  
23   Aboriginal peoples ability to exercise their  
24   treaty rights to hunt and fish.

25                   Just some of the previous court

1 rulings I will quickly mention that are relevant  
2 to treaty interpretation. In *Nowegijick* versus  
3 the Queen, the Supreme Court of Canada made it  
4 clear that treaties are to be interpreted broadly  
5 rather than narrowly and that due regard must be  
6 had to the understanding of the Aboriginal parties  
7 who signed them. Justice Dickson, as he then was,  
8 stated for an unanimous court that,

9 "Treaties and statutes relating to  
10 Indians should be liberally construed,  
11 and doubtful expressions resolved in  
12 favour of the Indians."

13 In *R. v Badger*, the court declared  
14 that,

15 "Any limitations which restrict the  
16 rights of Indians under treaties must  
17 be narrowly construed."

18 In relation to hunting a particularly  
19 important ruling was contained in *Simon v the*  
20 *Queen*, concerning a 1752 treaty between the  
21 British Crown and the Mi'kmaq, and the extent to  
22 which it secured hunting rights to the Mi'kmaq  
23 that precluded the application of Provincial  
24 hunting registration. Chief Justice Dickson ruled  
25 that,

1 "Indian treaties should be given a  
2 fair, large and liberal construction  
3 in favour of the Indians."

4 With reference to hunting he found  
5 that the interpretation of the treaty right to  
6 hunt should be,

7 "Sensitive to the evolution of changes  
8 in normal hunting practices,"

9 And should,

10 "Ensure that the treaty will be an  
11 effective source of hunting rights."

12 Further,

13 "The right to hunt to be effective  
14 must embody those activities  
15 reasonably incidental to the act of  
16 hunting itself."

17 To get to treaty 5 itself, treaty 5  
18 makes a number of significant guarantees. First  
19 it guarantees that the Aboriginal signatories have  
20 the right to hunt and fish throughout the treaty  
21 territory,

22 "Subject to such regulations as may  
23 from time to time be made by Her  
24 Government of Her Dominion of Canada,  
25 and saving and excepting such tracts

1 as may from time to time be required  
2 or taken up for settlement, mining,  
3 lumbering or other purposes."

4 Legal scholar Patrick Macklem has  
5 carefully analyzed the significance of this clause  
6 with respect to Treaty 9, made in Ontario in  
7 1905-6, just before the adhesion to Treaty 5 in  
8 Northern Manitoba. He demonstrates, among other  
9 things, that only the Federal government may make  
10 regulations with respect to hunting and fishing,  
11 not Provincial governments. He also shows that  
12 treaty rights to hunt, fish and trap have been  
13 ruled by courts to include activities reasonably  
14 incidental to these occupations. It is reasonable  
15 to argue that this would include, for instance,  
16 the ability to travel through the land safely and  
17 to access territories for hunting, trapping and  
18 fishing. More over Macklem shows that,

19 "The right to fish entails a  
20 recognition of a right approximating a  
21 treaty right to water."

22 Another important feature of Treaty 5  
23 is the following clause:

24 "It is further agreed between Her  
25 Majesty and Her said Indians that such

1 sections of the reserves above  
2 indicated as may at any time be  
3 required for public works or building  
4 may be appropriated for that purpose  
5 by Her Majesty's government, due  
6 compensation being made for the value  
7 of any improvements thereon."

8 This clause clearly establishes a set  
9 of principles concerning the appropriation of  
10 Aboriginal lands by government. First, it implies  
11 that notice will be given of the government's  
12 intention to appropriate lands. Second, it  
13 establishes that compensation will be paid for  
14 such lands. It is reasonable to suggest that the  
15 Aboriginal peoples who signed Treaty 5 expected  
16 these basic principles to be followed any time  
17 they lost further lands.

18 Finally, Treaty 5 stated the  
19 following:

20 "It is further agreed between Her  
21 Majesty and the said Indians that the  
22 sum of five hundred dollars per annum  
23 shall be every year expended by Her  
24 Majesty for ammunition and twine for  
25 nets."

1                   This provision clearly showed that the  
2 government expected the Aboriginal signatories of  
3 Treaty 5 to make their living in part by fishing  
4 and hunting. The clause would undoubtedly  
5 reinforce in the minds of the Aboriginal peoples  
6 their expectation of continuing their ancient  
7 livelihood of living off the land.

8                   I am going to skip the next paragraph  
9 to stay within my time.

10                   Finally, according to Patrick  
11 Macklem's careful analysis of Treaty 9 and the  
12 relevant case law, existing Canadian  
13 jurisprudence,

14                   "Supports the conclusion that  
15 Aboriginal peoples have, by virtue of  
16 treaties establishing reserves in  
17 exchange for the surrender of  
18 ancestral lands, not only rights to an  
19 uninterrupted flow of water to reserve  
20 land, but also rights to water to  
21 sustain hunting and fishing rights."

22                   Given the guarantee of Aboriginal  
23 hunting, trapping and fishing rights contained in  
24 Treaty 5, and the constitutional protection these  
25 rights enjoy under the Charter of Rights and

1     Freedoms since 1982, I submit that the Clean  
2     Environment Commission and also the Manitoba  
3     Government and Manitoba Hydro need to ensure that  
4     the construction and operation of the Lake  
5     Winnipeg project does not violate these rights.  
6     Indeed, these facts reveal the need for a more  
7     extended investigation of the impacts of the whole  
8     hydroelectric system on First Nations in Manitoba.  
9     I added a few sentences that aren't on the written  
10    copy.

11                   Finally, it is essential that going  
12    forward Manitoba Hydro be required to consult with  
13    First Nations in its regulation of water levels.  
14    Courts have ranked Aboriginal rights to resources,  
15    second only to conservation needs. All other  
16    access rights are ranked lower than those of  
17    Aboriginal peoples. In future the Lake Winnipeg  
18    Regulation licence must reflect this  
19    constitutional requirement and ensure that  
20    Aboriginal and treaty rights are fully respected  
21    in accordance with Canadian law. Thank you.

22                   THE CHAIRMAN: Thank you, Dr.  
23    Brownlie. Thank you both very much. Okay.  
24    That's our list for this evening. And we are  
25    actually a couple of minutes early, we all have a

1 bonus. So that concludes the proceedings for  
2 today. We will reconvene here tomorrow morning at  
3 9:30 and continue cross-examination of Manitoba  
4 Hydro's panel.

5 MS. JOHNSON: We have documents that  
6 need to be read in. There is one that we missed  
7 from Manitoba Hydro yesterday, it will be MH  
8 number 9, it is a letter to Mr. Sargeant in  
9 response to a letter sent to Mr. Penner,  
10 February 23rd. Mr. Mason's presentation this  
11 evening is WPG number 1; Mr. Hodgson's is number  
12 2; Ms. McMorris' is number 3; Ms. Kennedy  
13 Courcelles is number 4; Mr. Braun's is number 5;  
14 Mr. Desautels is number 6; Mr. Ellis is number 7;  
15 Mr. Cariou is number 8, and Mr. Brownlie is number  
16 9.

17 (EXHIBIT MH 9: Letter to Mr. Sargeant  
18 in response to a letter sent to Mr.  
19 Penner, February 23rd)

20 (EXHIBIT WPG 1: Presentation by Mr.  
21 Mike Mason)

22 (EXHIBIT WPG 2: Presentation by Mr.  
23 Brian Hodgson)

24 (EXHIBIT WPG 3: Presentation by Ms.  
25 Penny McMorris)

1 (EXHIBIT WPG 4: Presentation by Ms.  
2 Cheryl Kennedy Courcelles)  
3 (EXHIBIT WPG 5: Presentation by Mr.  
4 Will Braun)  
5 (EXHIBIT WPG 6: Presentation by Mr.  
6 Maurice Desautels)  
7 (EXHIBIT WPG 7: Presentation by Mr.  
8 Brian Ellis)  
9 (EXHIBIT WPG 8: Presentation by Dr.  
10 Warren Cariou)  
11 (EXHIBIT WPG 9: Presentation by Dr.  
12 Robin Brownlie)  
13 THE CHAIRMAN: Okay. Now we stand  
14 adjourned until tomorrow morning.  
15 (Concluded at 9:00 p.m.)  
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## OFFICIAL EXAMINER'S CERTIFICATE

Cecelia Reid and Debra Kot, duly appointed  
Official Examiners in the Province of Manitoba, do  
hereby certify the foregoing pages are a true and  
correct transcript of my Stenotype notes as taken  
by us at the time and place hereinbefore stated to  
the best of our skill and ability.

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Cecelia Reid

Official Examiner, Q.B.

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Debra Kot

Official Examiner Q.B.

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