



“When You Talk - We Listen!”



MACKENZIE VALLEY LAND

AND WATER BOARD

TYPE A WATER LICENCE APPLICATION

FOR NORTH AMERICAN TUNGSTEN CORPORATION LTD.

CANTUNG MINE

MV2015L2-0003

Facilitator

Lindsey Cymbalisty

HELD AT:

Yellowknife, NT

June 17, 2015

Day 1 of 1

## 1 APPEARANCES

2	Jenn Potten	)MVLWB Staff
3	Julian Morse	)
4	Angela Plautz	)
5	Tyree Mullaney	)
6	Amanda Gauthier	)
7	John Donihee	)Counsel
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9	Allan Krasnick	)North American
10	Deborah Flemming	)Tungsten Corp.
11	Rod Ambrosie (by phone)	)Ltd.
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13	Monica Wendt	)NRCan
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15	Kate Witherly	)GNWT
16	Rick Walbourne	)
17	Paul Green	)
18	Nathen Richea	)
19	David Jessiman	)
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21	Melissa Pinto	)Environment Canada
22	Rej Ejeckam (by phone)	)
23	Lisa Lowman (by phone)	)
24		
25	Rohan Brown	)GNWT Justice

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APPEARANCES (Con't)

Andy Young ) ITI  
Benji Straker )  
Malcolm Rob )  
Carrie Breneman (by phone) ) Dehcho First  
 ) Nation

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3	and Sinclair paper	52
4	NATCL to submit to the MVLWB by	
5	June 25, 2015:	
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10	was discharged to TP-4; and	
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12	water	69
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14	July 2, 2015, a trend analysis	
15	of the total aluminum data at	
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20	regarding the chromium spike,	
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1 --- Upon commencing

2

3 THE FACILITATOR: Thanks for coming.  
4 I'm Lindsey Cymbalisky. I'm the technical advisor  
5 for the Mackenzie Valley Land and Water Board and I'm  
6 going to be chairing this session today and keeping  
7 all of you in line, because I know you get a little  
8 rowdy. I've seen it before.

9 So the washrooms -- just a few  
10 logistical things, the washrooms are out the -- down  
11 the hall there to the left. There's also an exit out  
12 that way, which is probably where you came in and  
13 there's another one over here to the right, which may  
14 be the faster way to go.

15 We will have a couple of breaks today,  
16 one (1) in the morning, one (1) in the afternoon.  
17 And there's just coffee and tea here today. If you  
18 need some sustenance you may have to go upstairs  
19 during the break. We'll make sure we give you enough  
20 time to do that. And there will also be a lunch  
21 break today. Lunch is not provided.

22 So there are some copies of the  
23 agenda. I just slipped that in there. There are  
24 some copies of the agenda and the work plan on the  
25 table over there and there is WiFi access if you need

1 to get other documents. It's the new WKN network and  
2 the password is 'icecastle'.

3                   This meeting is being recorded, so  
4 please state your name clearly each and every time  
5 you speak. Thank you. Today we're here to talk  
6 about the technical aspects of North American  
7 Tungsten's application to renew its water licence for  
8 the Cantung mine. This is just to give us a chance  
9 to put forward people's questions, comments, and  
10 concerns about the application with the intent of  
11 helping the public hearing run as smoothly as  
12 possible.

13                   So just to go over some of the --  
14 what's happened on the file so far with regard to  
15 this application. The application was received on  
16 April 21st, 2015, and was deemed complete on April  
17 27th. It was sent out for review and reviewer  
18 comments and recommendations were submitted to the  
19 Board by May 26th, 2015. And on June 10th, North  
20 American Tungsten responded to reviewer comments and  
21 recommendations.

22                   Following this technical session today  
23 there will be responses to any Information Requests  
24 from this session due on June 25th. The pre-hearing  
25 conference is scheduled for July 7th. Written



1 interventions are due on July 14th. The Proponent's  
2 response to interventions is due on July 23rd.  
3 Public hearing presentations are due on July 30th.  
4 And North American Tungsten's public hearing  
5 presentation is due on August 6th.

6 Right now the public hearing is  
7 scheduled for August 26th to 27th and we are aware of  
8 the potential for some scheduling conflicts with  
9 those dates. We will look at those dates again  
10 before the pre-hearing conference and discuss them  
11 there if there needs to be some changes.

12 The agenda is broken down by topic  
13 based on the comments and recommendations the Board  
14 received. The comments that go with each topic are  
15 identified by organization name and comment number.  
16 North American Tungsten will provide three (3)  
17 presentations during this session and we'll have time  
18 for discussion following each presentation.

19 We may not need all of the time that  
20 we've allotted for each topic in which case we will  
21 go ahead and move on to the next topic. Information  
22 Requests generated by this session will be recorded  
23 by Jen up on the wall there and will be sent out  
24 following the meeting.

25 So with that, I think we're pretty

1 much ready to go and we can start with the  
2 introductions. We'll move to my left here.

3 MS. JEN POTTEN: I'm Jen Potten, with  
4 the Mackenzie Valley Land and Water Board.

5 MR. JULIAN MORSE: Julian Morse, Land  
6 and Water Board.

7 MS. ANGELA PLAUTZ: Angela Plautz,  
8 Mackenzie Valley Land and Water Board.

9 MS. MONICA WENDT: Monica Wendt,  
10 NRCan.

11 MS. KATE WITHERLY: Kate Witherly,  
12 ENR.

13 MS. MELISSA PINTO: Melissa Pinto,  
14 Environment Canada.

15 MR. ALLAN KRASNICK: Allan Krasnick,  
16 North American Tungsten.

17 MS. DEBORAH FLEMMING: Deborah  
18 Flemming, North American Tungsten.

19 MR. RICK WALBOURNE: Rick Walbourne,  
20 ENR, Water Resources Division.

21 MR. PAUL GREEN: Paul -- Paul Green,  
22 ENR, Waters.

23 MR. NATHEN RICHA: Nathen Richea,  
24 manager of Water Regulatory, Water Resources  
25 Division, ENR.

1 MR. ROHAN BROWN: Rohan Brown, GNWT  
2 Justice.

3 MR. DAVID JESSIMAN: David Jessiman,  
4 ENR, Water Rent -- Water Regulatory.

5 MS. TYREE MULLANEY: Tyree Mullaney,  
6 with Mackenzie Valley Land and Water Board.

7 MR. ANDY YOUNG: Andy Young, ITI,  
8 Mineral Resource Division.

9 MR. BENJI STRAKER: Benji Straker,  
10 ITI, Mineral Resources.

11 MR. MALCOLM ROB: Malcolm Rob, ITI,  
12 Bronty (phonetic) administration.

13 THE FACILITATOR: And on the phone?

14 MR. REG EJECKAM (BY PHONE): Reg  
15 Ejeckam, Environment Canada.

16 MS. LISA LOWMAN (BY PHONE): And Lisa  
17 Lowman, with Environment Canada in the Winnipeg  
18 office.

19 MS. CARRIE BRENEMAN (BY PHONE):  
20 Carrie Breneman, Dehcho First Nations.

21 MR. ROD AMBROSIE (BY PHONE): Rod --  
22 Rod Ambrosie, with North American Tungsten.

23

24 (BRIEF PAUSE)

25

1 THE FACILITATOR: This is Lindsey for  
2 the Board. Can I just ask if the people on the phone  
3 have received the presentations by email this  
4 morning?

5

6 (BRIEF PAUSE)

7

8 THE FACILITATOR: Lisa or Reg, have  
9 you received the presentations?

10 MR. REG EJECKAM (BY PHONE): She --  
11 Lisa is checking now.

12 THE FACILITATOR: Okay. This --

13 MS. CARRIE BRENEMAN (BY PHONE):  
14 Hello, this is Carrie Breneman, with Dehcho First  
15 Nations. I have not received it.

16 THE FACILITATOR: Okay. This is  
17 Lindsey, for the Board. Can you just check -- keep  
18 checking your emails over the next little bit. We've  
19 just sent them, so you should get them shortly. But  
20 I think we'll go ahead with the opening presentation.

21

22 PRESENTATION BY NORTH AMERICAN TUNGSTEN AND QUESTIONS  
23 - OPENING:

24 MS. DEBORAH FLEMMING: Deborah  
25 Flemming, North American Tungsten. The way we had

1 done up our presentation is a series of slides to  
2 utilize during the discussions regarding the  
3 different aspects on the agenda. But we would like  
4 to start with a introduction from Allan Krasnick.

5

6 (BRIEF PAUSE)

7

8 MS. DEBORAH FLEMMING: So Deborah  
9 Flemming, with North American Tungsten and Allan  
10 Krasnick, our board member. Rod Ambrosie is on the  
11 phone listening in.

12 MR. ALLAN KRASNICK: All right.  
13 Allan Krasnick, North American Tungsten. First of  
14 all, I want to thank you for the opportunity to  
15 address you today as North American Tungsten applies,  
16 I think it's the tenth renewal of the water licence  
17 for the mine at Tungsten in the Northwest Territories  
18 where our company or predecessor has been mining  
19 Tungsten since 1962.

20 Our ninth licence, the current licence  
21 has a five (5) year term and a two (2) year  
22 extension, but it certainly hasn't been seven (7)  
23 years since we last appeared before you. This period  
24 of the licence has been eventful with modifications  
25 and amendments intending to strength environmental

1 protection at the mine site.

2                   In the two (2) years I've served in  
3 the capacity of chair -- as chair of the environment  
4 committee of North American Tungsten's board of  
5 directors, I think this is the fourth technical  
6 session I've attended. And I'm hoping that by the  
7 eighth I'll actually understand the dialogue that  
8 goes on in these meetings.

9                   I think in the third one I was on the  
10 phone, and I made this kind of speech but the phone  
11 wasn't on so nobody actually heard me, so I was able  
12 to use it again the next time. But because of  
13 intervening events, I have to be a little more  
14 current this time.

15                   Today as before I'll try to provide a  
16 corporate perspective to complement the more  
17 technical presentations from Deborah and Rod  
18 Ambrosie. Deborah's our environmental  
19 superintendent. She's done quite a remarkable job in  
20 her years at the mine in terms of trying to modernize  
21 us. And Rod has been leading the environmental  
22 engineering at site and at the Mactung project.

23                   And both of them are responsible, in  
24 particular, for the wastewater treatment plant and  
25 that whole change in the way we've been, as a

1 company, trying to deal with tailings.

2                   For the past two (2) years in this  
3 capacity I think I've always spoken with some  
4 confidence in times with surprise, as we at North  
5 American Tungsten have worked to modernize the  
6 company and make it more socially and environmentally  
7 responsible. Some successes have included  
8 significant and repeated extensions to our life of  
9 mine. Each three (3) years, the last, I guess, nine  
10 (9), we've issued a -- a report on our reserves  
11 that's compliant with the National Instrument 43-101,  
12 which is the securities instrument, that reveals that  
13 despite the inter -- intervening period of mining,  
14 our resources continue to grow.

15                   I'm not sure I can use the word 'grow'  
16 for something static like a rock, but the amount of  
17 rese -- reserves we've found is greater today than it  
18 was when we reopened the mine in 2002. So despite  
19 about eleven (11) of the last thirteen (13) years  
20 that we've been mining, the amount of reserves we're  
21 now reporting is considerably larger than its ever  
22 been, actually.

23                   Because of the Corporate confidence  
24 that was created by the positive length of mine --  
25 the life of mine projections, confidence that's been

1 shared by my colleagues on the board of directors, we  
2 made some significant capital investments, more than  
3 \$70 million during the life of this licence -- during  
4 this licence period.

5                   Investments in the mine, the mill, and  
6 in the handling of tailings. And we made even more  
7 important investments in our two-hundred and sixty  
8 (260) employees and the fifty (50) other people who  
9 work at the mine through contractors.

10                   This kind of -- of investment required  
11 a major commitment from my colleagues on the Board.  
12 And unfortunately I see that today in the list of the  
13 Company's creditors, that more than \$34 million is  
14 owed to our major shareholders who kept us in  
15 business these past few years as we invested in our  
16 operations and our people, and in protecting the  
17 physical environment in which they work.

18                   During the past few years we also  
19 developed a better relationship with our customers  
20 who guaranteed to purchase all of our output, and  
21 have purchased that output, and for an extended  
22 period of time. We -- we actually have long-term  
23 agreements with customers to purchase all that we  
24 produce. And they've also provided us with loans.  
25 And unfortunately, they too appear on the list of



1 creditors to whom we owe money right now.

2                   Among the improvements over the past  
3 two (2) years has been the permanent wastewater  
4 treatment plant, which was long overdue, and the work  
5 we've done to move away from exfiltration and to dry  
6 stack tailings. These are part of the Company's  
7 major commitments to reduce the pressure on the Flat  
8 River.

9                   We recognize every day at Cantung that  
10 our mine is located in a place of singular beauty and  
11 that we have an onus to preserve that beauty as best  
12 we can, and that we are not the only people who have  
13 access to and the -- the right to -- to that site.  
14 We've been working to improve our relationship with  
15 our ultimate landlords, the Dehcho First Nation and  
16 with the Impact Benefit Agreement we executed with  
17 the Nahanni Butte Dene Band. We are working to  
18 prepare for the ultimate transition to the time when  
19 the Dehcho will govern our neighbourhood.

20                   And as we've told this Board, the  
21 agreement with the Nahanni Butte people is just the  
22 first in a series of agreements that will also  
23 strengthen our presence in the north and we're  
24 looking to sign IBAs over time with the Liidlii Kue  
25 and the Decho Regional Corp, both of whom we've met

1 with over the last year, as well as with the Sautu  
2 and the Kaska for the Mactung project.

3                   The fundamental change I have tried to  
4 bring to the company is to make it more of a northern  
5 company, not a BC company that happens to have a mine  
6 on the Yukon/Northwest Territories border. We're now  
7 posting job openings throughout the Mackenzie River  
8 communities and we're working to increase local  
9 contracting in some creative ways to reflect capacity  
10 so that we don't have contracts that are so big or so  
11 complicated that they're inaccessible to local  
12 people. So we've been breaking up contracts,  
13 changing store purchases to local craft products, and  
14 we hope that will continue even more as we continue  
15 this integration.

16                   But at base, we're a very small  
17 company. There are matters that are outside our  
18 control, and over the past few months that has been  
19 both good and bad. We can't control fuel prices, for  
20 example, but their reduction has been to our  
21 advantage. We can't control the value of the  
22 Canadian dollar, and that has been both good and bad  
23 for us.

24                   It's been good because we produce  
25 tungsten in Canadian dollars and we sell it in

1 American dollars, but it's been bad because more than  
2 \$40 million of our debt is in US money, so over the  
3 past six (6) months approximately our debt has  
4 increased by 25 percent -- or 40 million of our debt  
5 has increased by 25 percent without us actually  
6 receiving any money.

7                   But most fundamentally we have no  
8 control over the price -- the world price for  
9 tungsten. And in the slide -- in the -- this is --  
10 this is the changes in the price of tungsten over the  
11 last six (6) or seven (7) months. And you'll see at  
12 the top the most current price, June 12th, is the  
13 lowest, both the European market and the Chinese  
14 market. It's a very -- there's a very small number  
15 of transactions. There's no future's market. There  
16 is -- it's not traded as many commodities are.

17                   It's basically trades made between a  
18 limited number of people are recorded by the London -  
19 - by the London Metal Bulletin, and those are what  
20 are called APT prices. So that's a higher level of  
21 tungsten, higher grade -- purity of tungsten, about  
22 90 percent purity. And we get a percentage of this  
23 price for our -- for our ore.

24                   So we produce between fifty-five (55)  
25 and -- 50 percent and 70 percent purity, so our price

1 is discounted from this price. And -- and that's --  
2 so that's the current price in US dollars. And you  
3 can see that in the European market it's fallen by 29  
4 percent. It was actually over four hundred dollars  
5 (\$400) about fifteen (15) months ago. So it's --  
6 it's taken a significant fall.

7                   And because of that we've come to this  
8 point where on June 9th we applied and received an  
9 order from the BC Supreme Court that provides us for  
10 thirty (30) days with protection from our creditors.  
11 So we're in a process -- CCAA is the Companies'  
12 Creditors Arrangement Act, I think, and it -- it sets  
13 its own process. All the bills we have to date are  
14 frozen, and we have -- and it's all very public.

15                   So there's a -- we have a monitor  
16 appointed by the court, and the monitor lists all the  
17 creditors and lists the process. Gives access to  
18 people who believe that maybe it's been misstated to  
19 approach, and we're now guided to a significant  
20 extent by what a court permits us to do. On July --  
21 so during this period, we're working to develop a new  
22 plan that will allow us to -- will restructure the  
23 company, and develop a plan that will enable us to  
24 continue in business.

25                   We have unfortunately gone through

1 this before in 2003, I think it was. Two (2) of our  
2 secured creditors basically put us into CCAA, and it  
3 took us a year to get out but we managed to make  
4 deals with them and to ultimately emerge from that,  
5 and to work -- continue work basically for almost  
6 eleven (11) years.

7                   This time we took the initiative  
8 because the debt was just too great. We continue to  
9 run a significant deficit each month, and a large  
10 part of that deficit is because of the finance costs  
11 that we have. So we're running a slight marginal  
12 profit we'll say right at the mine when you look at  
13 the revenue we receive minus the cost of sales, but  
14 when you add to that the -- the amount of finance  
15 costs we have that always put us under. So we'd have  
16 a -- we had a quarter at the end of 2014 where I  
17 think we had a 4 million or \$5 million operating  
18 profit out of the mine and ended up with a \$1 1/2  
19 million loss, because we had over 6 million in -- in  
20 financing costs. Now the price of -- has gone even  
21 lower than that and that's affected our ability to  
22 even hit the marginal profit at the mine.

23                   So we're trying to develop a plan. We  
24 are putting together cashflows and putting together  
25 various scenarios on how to continue an operation.

1 We're committed to do that. On July 9th there'll be  
2 a hearing in which we'll present the plan and we will  
3 seek a further extension of at least ninety (90) days  
4 to continue while we develop that.

5                   Restructuring means that it will  
6 undoubtedly look different when we emerge from this  
7 process. We'll -- I mean, we'll still be mining  
8 tungsten, but it may have new ownership. It may have  
9 a new board. It may have a very different structure,  
10 but it will have all the -- you know -- you know,  
11 we'll continue all the obligations under the licence  
12 and to the environment and the community in with  
13 which we work -- communities with which we work.

14                   And central to our plans is -- and --  
15 and I think of considerable importance to -- to the  
16 Board is the reprocessing of the tailings in TP4, and  
17 so that's in our all our plans to try to -- if -- you  
18 know, depending on where we go, if nothing else, to  
19 accelerate that so that if ultimately there is a  
20 closure, which we don't anticipate, then we leave,  
21 you know, with everything the way that it should be,  
22 the environment restored to the -- you know, to a  
23 great extent. We're not walking away from our  
24 obligations in any way.

25                   Last time, as well -- I see Malcolm

1 Rob is here, last time we worked closely with Malcolm  
2 and his people. He was in with the feds on the -- on  
3 a reclamation security agreement and we will  
4 undoubtedly be looking to want to update that in --  
5 in line with the new reality.

6 I don't know if -- if people know much  
7 about CCAA. It basically freezes what we owe for the  
8 period prior to June -- June the 9th. It requires  
9 certain people who provide services to us, like fuel,  
10 food, and other things to continue contracts and they  
11 can -- people can now demand they be paid kind of the  
12 same day, because we're even a worse credit risk than  
13 we were, but we can continue to operate and we are.

14 We've cut back on mining, the actual  
15 underground mining. We've -- we've done some  
16 cutbacks and that's been reported. But we -- we're  
17 not -- we don't yet have our full go-forward plan.  
18 And -- and again, it has to be approved by a monitor  
19 who's appointed by the courts and then by the court  
20 itself. So we're now just one (1) party that  
21 determines our future.

22 But our hope is that when we  
23 restructure -- my hope is what we restructure will be  
24 much more of a northern company and will be via --  
25 will return to viable -- viability and -- and that

1 we'll pay back the people who -- certainly the  
2 smaller people who we owe money to. There's --  
3 there's consultants we've hired on the Aquatic  
4 Effects Monitoring Program. There's consultants  
5 we've hired, you know, in other areas that are quite  
6 small, you know.

7           Companies -- some of the larger  
8 companies, this is -- I -- I don't want to sound cute  
9 or anything, but it's kind of their -- they ant --  
10 they anticipate this happening, you know, to some of  
11 their customers over the course of a year. To  
12 others, to the small ones, this is a fairly major  
13 impact on them and we are very conscious of that.

14           So I can try to answer questions if  
15 you have any on this. We're meeting -- we'll be  
16 meeting with counsel for the government later today.  
17 We're going to continue that discussion and -- and  
18 we're trying to work positively to emerge from this  
19 as a stronger and a more northern entity than we were  
20 on Jan -- on June 8th.

21           MR. JULIAN MORSE: I had said --  
22 Julian Morse, for the Board. I -- I have one (1)  
23 question for you Allan, could you give kind of a, if  
24 you're able to, some form of a summary of what you  
25 guys are going to be up to this summer? I know there



1 was a lot of activity planned related to the  
2 amendment that you just received.

3                   So could you just kind of speak to  
4 what's going to happen over the next six (6) months?

5                   MR. ALLAN KRASNICK:    So again we're  
6 developing a plan, and it requires permission.  So  
7 any of the normal things we've been doing we're  
8 continuing to do.  Anything that requires major  
9 expenditure or capital expenditure, we're going to  
10 need the approval of the court to do that.

11                   So -- because that spending arguably  
12 goes to the detriment of people to whom we owe money.  
13 So we need to -- we need to convince the court  
14 essentially that we're continuing, and then it  
15 justifies -- justifies that.  So we really don't have  
16 -- I'm sorry, but I -- I don't have more -- anything  
17 more definitive.  We may have it by July 9th.  We're  
18 in a sort of strange period now because it's so early  
19 in the process.

20

21   (BRIEF PAUSE)

22

23                   MS. DEBORAH FLEMMING:   Deborah  
24 Flemming, North American Tungsten.  One (1) of the  
25 things that has been decided at this point is the

1 tailings dewatering facility, or the process  
2 facility.

3                   In the form that it was is being  
4 reconsidered, and so we are looking at alternatives  
5 that meet the same criteria that were discussed  
6 during the amendment, et cetera, but of a different  
7 form and smaller. So something that is able to  
8 process the tailings on a daily basis, but not  
9 necessarily the reprocess scenario.

10                   And so -- so a different format. So  
11 we are reworking management plans and such to address  
12 that, and we do continue to move forward on the  
13 management plans as far as the tailings management,  
14 et cetera.

15                   MR. JULIAN MORSE: Julian Morse, for  
16 the Board. So that facility, my understanding is  
17 that that's for drying out the tailings.

18                   So it seems to me that it's assumed  
19 then that you are going ahead with the plan to start  
20 developing the dry stack tailings?

21                   MR. ALLAN KRASNICK: Yeah, it's not  
22 off the table, as -- as -- if I could use that  
23 expression. I mean, we cannot continue -- oh, Allan  
24 Krasnick, of North American Tungsten. We can't  
25 continue to operate unless we -- in any event unless

1 we move to dry stack tailings. We are running out of  
2 space, so we will have to do that. And we want to do  
3 that.

4 THE FACILITATOR: Lindsey, for the  
5 Board. Does anyone else have questions about the  
6 current land situation?

7 MR. REG EJECKAM (BY PHONE): It's Reg  
8 and Lisa here. The -- the voice kind of floats in  
9 and out, or sometimes it cuts out, so we're going to  
10 log off and they're going to try another phone and  
11 see whether that's better.

12 MR. ROD AMBROSIE (BY PHONE): Reg,  
13 this is Rod Ambrosie. Yeah, I'm having a hard time  
14 hearing -- hearing. Can you turn up the volume for  
15 the phones?

16 MR. REG EJECKAM (BY PHONE): Well,  
17 we've done that. We've -- it's the maximum. So  
18 we're going to try and log in from another office,  
19 and try and see whether that's better.

20 MR. ROD AMBROSIE (BY PHONE): Yeah,  
21 I'm wondering if it's on their end, Reg.

22 MR. REG EJECKAM (BY PHONE): Okay.  
23 Well, we'll try it any way, and we'll see.

24 THE FACILITATOR: This is Lindsey,  
25 for the Board. So I think Corey (phonetic) was

1 making some adjustments back there, so maybe that  
2 will help as well. Does anyone -- I think you had  
3 some questions there?

4 MR. PAUL GREEN: It's Paul Green,  
5 with Water Resources. Just with regards to tailings  
6 dewatering infrastructure we're putting in, that will  
7 be capable of handling I guess fresh tailings from --  
8 from underground mining as well as reprocessed  
9 tailings, or will it -- so it'll be able to do with  
10 the old plant was going to do, or will it be only  
11 able to handle sort of fresh tailings?

12 MS. DEBORAH FLEMMING: Deborah  
13 Flemming, North American Tungsten. At the moment in  
14 the interim we are looking at one that will handle  
15 fresh -- fresh tailings. So a reduced capacity but a  
16 same philosophy.

17

18 (BRIEF PAUSE)

19

20 THE FACILITATOR: Lindsey, for the  
21 Board. And any questions from anyone on the phone?

22

23 (BRIEF PAUSE)

24

25 MS. ANGELA PLAUTZ: Hi. This is

1 Angela Plautz, with Mackenzie Valley Land and Water  
2 Board. It's good to hear that you're meeting with  
3 the GNWT later on this afternoon about security. As  
4 you're aware, prior to the Board issuing the licence,  
5 if -- if they decide to do so, they -- they need to  
6 meet certain provisions under Section 26, and that  
7 relates -- one (1) of them relates to financial  
8 responsibility. And certainly the Board will need  
9 evidence prior to making a decision.

10                   So certainly it's good to hear that,  
11 you know, you're starting discussions, because that  
12 will be definitely a key part of the proceeding.

13

14                   (BRIEF PAUSE)

15

16                   MR. JULIAN MORSE: Hi, it's Julian  
17 Morse, for the Board. I just wanted to note that we  
18 -- we had planned to have our lawyer John Donihee  
19 here to speak a little to the Section 26(5)(d) issues  
20 and we've been unable to reach him this morning. So  
21 he may be here later this afternoon, but... Okay.

22

23                   (BRIEF PAUSE)

24

25                   THE FACILITATOR: Okay. Lindsey, for

1 the Board. So if we have no other questions I think  
2 we'll move on to the second presentation, which I  
3 think is an overview of your application.

4

5 PRESENTATION BY NORTH AMERICAN TUNGSTEN AND QUESTIONS  
6 - APPLICATION OVERVIEW:

7 MS. DEBORAH FLEMMING: Deborah  
8 Flemming, North American Tungsten. So I struggled a  
9 little bit with the overview to the presentation.  
10 Many of us have seen us several times over the last  
11 year and I'm sure you're getting bored with my spiel  
12 on the Cantung mine.

13 Allan spoke to the history. And so I  
14 just want to present a picture for those of you that  
15 are not familiar with our site. I'm not sure how  
16 many there are. But just an overview showing our  
17 tailings area 1 and 2. That is covered and is now  
18 actually used as a lay-down area.

19 Tailings 3 and 4 are closed but not  
20 capped. And four (4) is the tailings area in  
21 particular that everybody is concerned about as far  
22 as stability and the first in line for reprocessing  
23 and removal so that we can reduce that risk.

24 Tailings 3 is a large area and  
25 currently is receiving the excavated materials that

1 we are pulling out of TP5. So in an effort to  
2 maintain, or provide additional capacity for TP5  
3 we're removing the beached solids. They're actually  
4 coming out at a 12 percent dry. So actually a dry  
5 stackable, just out of curiosity's sake. They are  
6 being placed on TP3 as we had put forth in the  
7 proposal on -- on operations that we had sent out for  
8 people to take a look at.

9                   That is ongoing and we are increasing  
10 the capacity in five (5) so that we can maintain a  
11 viable operational pool of water and a place for  
12 tailings in the interim. In the centre a TSF4B is  
13 the area that will be the first dry stack tailings  
14 area. This is the area that is also going to be the  
15 site of the research and will be fully instrumented.  
16 Plans are in place and the development is ongoing  
17 regarding that research plan.

18                   TSF7 is the site of the old -- the old  
19 town site, essentially. The houses and townhouses,  
20 that are still there. And this is the second  
21 facility, slightly larger. 4B is estimated to be  
22 four (4) to six (6) months worth of capacity at -- at  
23 processing rates current and TSF7 is about a  
24 year/year and a half capacity.

25                   In order for TSF7 to come down we do

1 need -- or to be built, we need to take the town site  
2 down and close it off and complete progressive rec --  
3 reclamation. Some of those aspects may continue this  
4 summer and into the spring.

5           TSF6 is the larger tailings, which is  
6 further downstream and to the right of the slide --  
7 of the picture showing. The water treatment facility  
8 is in the triangle in the centre and this will be the  
9 location of the tailings dewatering plant, or the  
10 processing facility, no matter what form it takes.

11           So we are essentially looking for a  
12 new term of licence. The life of mine, not the 43-  
13 101 version of the life of mine which is the public  
14 tradable one, but the one that we anticipate and that  
15 the geologists are hopeful for.

16           So we -- the dry stack tailings  
17 amendment has just been signed. I'm sure you all  
18 received the confirmation of that. I'm not sure how  
19 that impacts this particular hearing. We have  
20 actually just submitted a geochemical gap analysis.  
21 That was submitted on June 1st. And I'm guessing  
22 will be circulated shortly for review.

23           We are currently undergoing a water  
24 balance revision, and are moving through that at a  
25 reasonable pace. And are online for completing that



1 in the short term. Operations are anticipated to be  
2 1,500 tonnes per day. That's short tonnes. We're  
3 currently around thirteen fifty (1,350).

4           Everyone's favourite graph, the TP5  
5 volume analysis. Some slight modifications to make  
6 it slightly easier to read. And so you can see the  
7 grey is the solids, and so the dips down are the  
8 excavation -- anticipated excavation volumes. And  
9 where we're at currently. Just -- so we have just  
10 completed the TP5 raise, which is the step up in the  
11 freeboard capacity. And our water volumes have been  
12 pulled down to our minimum operational levels at  
13 about 30,000 cubic metres.

14           So we just wanted to put the site map  
15 up, it doesn't look at big as I thought -- imagined  
16 it would, just to show where all the sampling is. It  
17 is colour-coded, so the orange -- sorry. The river  
18 running down and the sampling along it, as well as --  
19 the pink being the groundwater, the orange being the  
20 surface water sampling at -- for the samples in the  
21 river.

22           Some of the additional sampling that  
23 we've added in this past year are the surface waters  
24 and seepage surveys, the blues and greens on this  
25 map. And those have gone -- and been put in place to

1 address items that came out of the gap analysis  
2 initially.

3                   At this point, I'd like to ask if  
4 there's questions on the overview section. The next  
5 section we move into is just some slides with a chart  
6 so that we can discussion some of the water quality  
7 objectives.

8                   THE FACILITATOR: Lindsey, Board  
9 staff. I just want to check with the people on the  
10 phone, if you're getting any better transmission now?

11                   MR. REG EJECKAM (BY PHONE): Yes, we  
12 are. Thank you.

13                   MR. ROD AMBROSIE (BY PHONE): Yeah,  
14 this is Rod Ambrosie. Much better.

15                   THE FACILITATOR: Okay. Lindsey,  
16 Board staff. That's great. Just to make a quick  
17 note since Deborah mentioned that the amendment --  
18 the recent amendment has been issued, so just be  
19 aware that when we're talking about the renewal we  
20 are now talking about that most recently amended  
21 licence.

22                   And I know that some reviewers made  
23 comments, you know, during the review process about  
24 the fact that that hadn't been issued yet, so it was  
25 a bit confusing. But we have a bit of extra time

1 here left at the end of the day kind of where you can  
2 bring up questions related to things maybe that  
3 didn't come up in your review comments because of  
4 that.

5                   So, and if anyone has questions now  
6 about Deborah's presentation, go ahead.

7

8                   (BRIEF PAUSE)

9

10                   MR. RICK WALBOURNE: Rick Walbourne,  
11 ENR. I had a couple questions. You mentioned that  
12 you have been moving some tailings from TP3 -- or  
13 sorry, TP5 into TP3. That's my understanding.

14                   What capacity do you have in TP3 to  
15 handling tailings that are being excavated from TP5  
16 to TP3? Do you have a rough idea, or -- I'm just  
17 trying to figure out how long this arrangement can  
18 last, I guess.

19                   MS. DEBORAH FLEMMING: Deborah  
20 Flemming, North American Tungsten. What we've done  
21 is set out an amount, or a volume for this year  
22 between 60,000 cubic metres and 100,000 cubic metres.  
23 That is the plan that we're staying with. It will  
24 likely be around the 60,000 cubic metres.

25                   We have had John Dickson with EBA

1 Tetra Tech do an assessment and look at TP3 and has  
2 provided us the locations which we can put that on.  
3 This is above the designed dam structure, but a one  
4 and half (1 1/2) crest heights from the edge, so that  
5 we're not loading the -- the edge of the dam, and is  
6 backing in against the TP5 berm that sits on top of  
7 TP3.

8 MR. RICK WALBOURNE: Rick Walbourne,  
9 ENR.

10 Another quick questions. I -- I  
11 thought you said you had mentioned you've already  
12 been excavating tailings from TP5, moving them to  
13 TP3, but I'm not seeing that on the graph of the  
14 solids.

15 Can you speak to that, or am I missing  
16 something, or -- thank you.

17 MS. DEBORAH FLEMMING: Deborah  
18 Flemming, North American Tungsten. At this point, it  
19 has been slow progress, and only 6,700 cubic metres  
20 has been moved, so it doesn't show up on this scale.

21 MR. RICK WALBOURNE: Okay. Rick  
22 Walbourne. Thanks for that.

23 MR. PAUL GREEN: It's Paul Green, of  
24 Water Resources.

25 Just while we have this graph up, can

1 you remind me what the ideal contingency and the  
2 contingency volumes represent, I -- I guess in terms  
3 of other dat -- volumes and sort of days of  
4 operation?

5 MS. DEBORAH FLEMMING: Deborah  
6 Flemming, North American Tungsten. The contingency  
7 volume is seven (7) days of operation, and the ideal  
8 contingency, I am -- I am at a loss to remember at  
9 this point in time. Longer than that.

10 Rod, do you have those numbers at your  
11 fingertips?

12 MR. ROD AMBROSIE (BY PHONE): No, I'm  
13 sorry, Deborah, I don't either. I -- no, I don't.

14 THE FACILITATOR: Lindsey, Board  
15 staff.

16 That was Rod Ambrosie on the phone.  
17 And do we have any other questions? ENR, are you...  
18 They're avoiding looking at me, so I'm not sure.  
19 Anyone else in the room have questions? And anyone  
20 on the phone?

21 MR. REG EJECKAM (BY PHONE): No  
22 questions. Environment Canada, Reg Ejeckam.

23

24 (BRIEF PAUSE)

25

1 MR. NATHEN RICHEA: Hi, it's Nathen  
2 Richea, Water Resources.

3 I just have a question. Will there be  
4 any report provided on the excavation of material  
5 from tailings pond 5 and the -- the moving of that  
6 material and placing it relatively specifically in  
7 areas of tailings pond 3? Will there be a report  
8 basically aligning sort of the activities, like the  
9 work that was undertaken to do that and sort of a  
10 scope of work for that in -- in -- I guess where I'm  
11 going with that is, one (1) of the things that we  
12 look at when activities or an undertaking is how much  
13 it might cost to -- to do that.

14 And one (1) of the areas of difference  
15 in our amendment submissions to the Board were costs  
16 to remove tailings from tailings pond 4. So any  
17 additional information that the Operator might have  
18 for our scope of work or a type of costs for  
19 activities that they're currently doing would inform  
20 decisions moving forward.

21 So I'm just wondering if you have any  
22 reports or any information available regarding that  
23 work that's currently underway. And the report  
24 wouldn't be submitted until after that work is  
25 completed. Thank you.

1 MS. DEBORAH FLEMMING: Deborah  
2 Flemming, North American Tungsten. At this point,  
3 like I say, we've only just begun, and we have a  
4 small volume that has come out. And we'll be  
5 reporting the volumes in our monthly reports so that  
6 everybody knows that. At the end of the year, we  
7 will definitely be doing an assessment with that in  
8 mind that it will help inform the securities number.

9

10 (BRIEF PAUSE)

11

12 THE FACILITATOR: Lindsey, Board  
13 staff. Okay. If there are no more questions on the  
14 overview, then I think we're ready to move onto the  
15 water quality objectives.

16

17 (BRIEF PAUSE)

18

19 PRESENTATION BY NORTH AMERICAN TUNGSTEN AND QUESTIONS  
20 - WATER QUALITY OBJECTIVES:

21 MS. DEBORAH FLEMMING: North American  
22 Tungsten, Deborah.

23 I'd -- I -- I'll just go back and  
24 answer the question regarding the contingencies.

25 So the design contingency event of TP5

1 is 5,000 cubic metres, with 15,000 cubic metres  
2 during the spring, 35,000 cubic metres for the  
3 contingency, and 70,000 cubic metres for ideal.

4                   So if we move onto the water quality  
5 objectives, these objectives are in Appendix B -- or  
6 C -- of the water licence, and are listed for the  
7 location of S4-44 in the Flat River. Just to pop  
8 back to that map of where that is, if you're at TP3  
9 and you see Stinky Pond (phonetic), our discharge is  
10 at that location at 4-20, and S4-44 is 180 metres  
11 downstream. This is at the edge of the mixing zone  
12 that we have for our effluent discharge.

13

14                   (BRIEF PAUSE)

15

16                   MS. DEBORAH FLEMMING: So a lot of  
17 these items came out of the initial report that we  
18 had put forward for the evaluation of the water  
19 quality objectives at S4-44. And the data presented  
20 in the evaluation report, obviously at some point,  
21 you have to cut off the data, do your analysis, and  
22 present. We did that, and cut it off at the end of  
23 2014.

24                   A couple of things to note. The  
25 evaluation report was initially to assess -- in part



1 to assess the water quality objectives with the high  
2 flow after we had gone through the amendment for the  
3 high flow. Only two (2) to three (3) days of flow  
4 over 4,500 cubes actually occurred in 2014, making  
5 the -- the evaluation regarding the high flows a  
6 little difficult to do. However, what did come out  
7 of it was some information regarding the low flow  
8 numbers.

9           And that -- and so we -- we sent this  
10 stuff in, finished up all of the annual reports in  
11 March, and then we -- you start taking another look  
12 and the questions came back about fluoride. We went  
13 back and reassessed, and we found some interesting --  
14 interesting items and things going on.

15           We did notice that the natural water  
16 in the area -- from about the tailings area south is  
17 actually very high in natural fluoride. So these are  
18 the hot -- hot springs that are immediately adjacent  
19 to our tailings. These are the inflows and creeks on  
20 the other side of -- of the valley which have limited  
21 data that had previously been assessed. That  
22 includes the groundwater wells that we've been  
23 collecting background water on at the TSF6 region.

24           So what we talk about doing is -- what  
25 we've done here in this graph is the surface water

1 for fluoride. It's a number of surface water  
2 stations. Some are SNP stations. Some are natural  
3 stations. So you'll see the red line part way up at  
4 a -- just under five 5 -- 4 1/2 to 5 milligrams per  
5 litre. That's the water out of our hot springs for  
6 fluoride.

7                   The other spike you see on the right-  
8 hand side of the graph, SW7, is a seep that is  
9 located above the current landfill. And that's an  
10 actual seep that comes off of the hillside.

11                   So when we're looking at this, we did  
12 look at a number of issues and confounding items. We  
13 had a biologist present -- prepare a -- a memorandum  
14 that was circulated in response to the questions we  
15 had initially received and whether or not we were  
16 confounding the issues and items, or if it was a -- a  
17 natural phenomenon combination.

18                   So I am going to refer back to the  
19 memo provided. So what you're seeing in the blue,  
20 the light blue, is the water treatment facility  
21 levels. Four-twenty (420), which is our effluent  
22 discharge, is the yellow line below it. And then the  
23 red dotted line down here is the water quality  
24 objective from the annex 4S4-44. And S40 -- 4-44 on  
25 this graph, it is difficult to see, but it is this

1 dark green line tucked in here, back here.

2                   So at this point, I would like to open  
3 the floor to comments, et cetera, on the memo that  
4 everybody, I'm hoping, has had a chance to review.

5

6                   (BRIEF PAUSE)

7

8                   MR. RICK WALBOURNE:     Rick Walbourne,  
9 with ENR.

10                   I have a few questions on fluoride in  
11 general, I guess, may -- maybe not limited to the --  
12 to the memo.

13                   So I -- I understand here, Deborah, as  
14 you've just explained, the red line is the hot  
15 springs. The blue line is the wastewater treatment  
16 facility. The yellow line is the culvert coming out  
17 of Stinky Pond, and that other spoke is SW7, which is  
18 a seep near the landfill, which -- so that's not a  
19 Flat River?

20

21                   (BRIEF PAUSE)

22

23                   MS. DEBORAH FLEMMING:     Deborah  
24 Flemming, North American Tungsten.

25                   Yes, although I may have misspoken on

1 the SW7. Hang on.

2

3

(BRIEF PAUSE)

4

5

MS. DEBORAH FLEMMING: My apologies.

6

SW7 is what we're referring to bun -- is as Bunsen

7

Creek (phonetic). And Bunsen Creek is an inflow from

8

the opposite side of the valley than the mine sits

9

on. And it enters the Flat River partway down the

10

airstrip.

11

MR. RICK WALBOURNE: Rick Walbourne,

12

ENR.

13

If -- if you could, Deborah, you could

14

bring that those -- that fluoride graph when you get

15

a chance? I guess my first question, then, is:

16

Based on the water quality that's actually in the

17

Flat River, and I'll refer to, I guess, everything

18

I've said, the ones I just mentioned, it appears --

19

we looked at that data. And it -- it doesn't appear

20

that the water quality in the Flat River has

21

exceeded, I think, 0.5 milligrams per litre.

22

I guess two (2) questions. Can NATCL

23

provide rationale on why they believe an SSWQO of

24

1.22 milligrams per litre is necessary based on the

25

water quality we're seeing in the Flat River? And I

1 guess in -- similar to that, has NATCL seen any  
2 evidence that there was -- that water quality for  
3 fluoride is trending in a way that may exceed 0.5  
4 milligrams a litre, for instance, which is a number  
5 we -- we haven't seen an exceedance of in the river?

6 MS. DEBORAH FLEMMING: Deborah  
7 Flemming, North American Tungsten.

8 At this point in time, no, we have not  
9 seen something that would trend above. It was a  
10 conservative, I guess, objective put forth from ours  
11 because it was currently trending when we responded,  
12 and we weren't sure if that was going to correct, or  
13 if that was an actual sign of a beginning of a trend.

14 MR. RICK WALBOURNE: Rick Walbourne,  
15 ENR.

16 I guess my first question there was:  
17 Does Tungsten -- can you provide rationale on why you  
18 believe a -- a water quality objective of 1.22  
19 milligrams a litre is necessary if the water quality  
20 in the Flat River hasn't trended above 0.5 milligrams  
21 a litre?

22

23 (BRIEF PAUSE)

24

25 MS. DEBORAH FLEMMING: Deborah

1 Flemming, North American Tungsten.

2                   As far as rationale when we were doing  
3 it, we didn't know what the -- because we don't have  
4 a full year of data of what the influence is from the  
5 hot springs or the Bunsen Creek, it was conservative  
6 from our side of things.

7

8                   (BRIEF PAUSE)

9

10                   MR. RICK WALBOURNE: Rick Walbourne,  
11 ENR.

12                   I'd just like to provide a little bit  
13 of background on -- on our concerns with the fluoride  
14 to -- to give some context to where we're going with  
15 this line of questioning. Tungsten has used the  
16 BCMOE guide -- interim guideline for fluoride based  
17 on a hardness calculation. And some of you may  
18 recall we flagged some issues with that during the  
19 Snap Lake process because of some confounding effects  
20 of -- of temperature and hardness and the fact that  
21 it was an interim guideline.

22                   We do believe a -- a Type A CCME  
23 approach with the species sensitivity distribution  
24 would be more appropriate. And again, from the Snap  
25 Lake process, you may recall that some of that work

1 had been done by -- by De Beers, which was referenced  
2 by NATCL. One (1) cav -- sorry, I guess it was the -  
3 - the MacPherson (phonetic) paper from Golder in  
4 2014. One (1) caveat I would like to add to that is  
5 that there was some initial assessment and a -- and a  
6 additional manuscript published by Macdonald and  
7 Sinclair very recently in which some revisions were  
8 made to that number.

9                   So just for the information, and we --  
10 and we can follow-up on this as a Information Request  
11 or in our intervention. The -- the SSWQO calculated  
12 by Macdonald and Sinclair, based on a Type A for  
13 CCME, was 1.03 milligrams per litre. But I'd just  
14 like to add to that as well, we -- we mentioned in  
15 our additional comments that the presence of bull  
16 trout in the Flat River may warrant some additional  
17 caution.

18                   And based on the literature review  
19 which -- which was found in MacPherson 2014, which De  
20 Beers used, it appears that rainbow trout may be the  
21 most sensitive species when that work was done and as  
22 a salmonid, rainbow trout could potentially be used  
23 as a surrogate for -- for bull trout. And to give an  
24 example, for instance, they found a 10 percent lethal  
25 endpoint at around 2 milligrams per litre for

1 fluoride and an LC50 at around 5 milligrams a litre  
2 for rainbow trout.

3                   Given that these species, again, are  
4 both salmonids, and the status of bull trout, we  
5 think additional caution should be applied on the  
6 fluoride numbers to -- to ensure bull trout are  
7 protected in the Flat River. And that's the context  
8 of why we think a -- a closer to a non-degradation or  
9 -- or background level may be used than -- than  
10 applying the -- the hardness equation from BC or even  
11 the SSD.

12                   So if the numbers in the Flat River  
13 are -- are near the 0.5 milligrams a litre, that's  
14 achievable. We should con -- consider going to a  
15 lower number as possible. So I just wanted to  
16 provide a little context there. And -- and we'll  
17 obviously be providing more in our intervention, but  
18 that's just for everyone's information on -- on where  
19 we're going with some of this fluoride information.  
20 Thank you.

21                   MR. REG EJECKAM (BY PHONE): It's Reg  
22 Ejeckam here, with Environment Canada.

23                   I'm sorry we have to leave the call.  
24 There are some issues we need to deal with in the  
25 office, and we'll likely call back in the afternoon.



1 Our apologies.

2 THE FACILITATOR: Lindsey, Board  
3 staff.

4 Thanks, Reg, for letting us know.

5 MR. REG EJECKAM (BY PHONE): Okay.

6 Talk to you later -- later. Bye.

7 THE FACILITATOR: Okay. So in the --  
8 I just wanted to maybe ask you a question here, Rick.  
9 Since -- when we were doing the amendment initially  
10 for the wastewater treatment facility, because that  
11 was the first time there was a -- you know, a point  
12 source discharge, really, and there was some  
13 discussion for some of the water quality parameters  
14 where there wasn't a -- a guideline value to look at,  
15 I think it was 95 percent of what the downstream was  
16 at that point, in the interest of not further  
17 degrading the water quality beyond, you know, what --  
18 the impacts that were already existing from the mine.

19 But there's no fluoride data for that.  
20 And so at this point you're looking at data for sort  
21 of post-point source discharge. So I'm not sure how  
22 we would really go about setting a water quality  
23 objective based on a non-degradation policy in this  
24 case where we don't really have good background data,  
25 particularly because the upstream is not a good

1 repres -- representation in this case because of the  
2 other inputs.

3                   So do you have some suggestions on  
4 what you were thinking about in terms of how -- how  
5 you would go about picking a water quality objective  
6 in that case?

7                   MR. NATHEN RICHEA:    It's Nathen  
8 Richea, Water Resources.  I guess what we're thinking  
9 is if there is information available in recent  
10 literature about fluoride, that that should be  
11 considered when deriving objectives for the Flat  
12 River, which would be downstream of the point source  
13 discharge.

14                   Typically how F1 quality criteria are  
15 derived for water licences is sort of a back  
16 calculation from the objective.  So I guess what  
17 we're saying is we're looking at information that  
18 currently exists in the literature about protecting  
19 potential species at risk, which would be bull trout.  
20 I think it's important to do that.

21                   So we're going to provide information  
22 about what the concentrations should be at the  
23 downstream location to protect all species, but in  
24 this case bull trout.  And then we would expect that  
25 the standard process for back calculating the EQCs

1 would be followed by the Board.

2 I believe that's how it was done  
3 previously, because we did have some discussion when  
4 the water treatment plan amendment was put in place,  
5 about what the appropriate location for the mixing  
6 zone should be and that's the idea of sort of  
7 understanding what the mixing conditions would be in  
8 that zone so that you could back calculate effluent  
9 quality criteria.

10 But yeah, getting back to the point  
11 about the information that we have, we could provide  
12 the Macdonald information. It was submitted in part  
13 during the Snap Lake -- I think it actually might  
14 have happened at the hearing, but it was taken off  
15 the record, but we can provide it again for this --  
16 for this record. And then we'll provide information  
17 for the Board's consideration as part of our  
18 intervention about fluoride particularly.

19 THE FACILITATOR: Lindsey, for the  
20 Board staff here. So I think we'll be putting that  
21 down as our first Information Request then, that you  
22 would provide that paper for everyone to have a look  
23 at.

24

25 --- INFORMATION REQUEST NO. 1: GNWT-ENR to submit

1 to the MVLWB, by June 25, 2015, the  
2 Macdonald and Sinclair paper

3  
4 THE FACILITATOR: And if I could just  
5 follow up and say -- ask whether you'd still be  
6 thinking of this water -- applying this water quality  
7 objective at the end of the current mixing zone,  
8 which is 4-44, I think, because some of these sources  
9 of additional fluoride are coming in further  
10 downstream from -- from that?

11 MR. RICK WALBOURNE: Rick Walbourne,  
12 ENR. Yeah, I think we'd still be applying it based  
13 on the numbers that we've seen in the receiving body.  
14 Those numbers are -- are below the numbers we're  
15 talking about, even with the -- the natural sources  
16 of fluoride.

17 Yeah, so again, I understand your  
18 question there about it's hard to establish a  
19 baseline condition given that we don't have fluoride  
20 numbers post-discharge. But even based on numbers  
21 post-discharge is why I was referencing, maybe  
22 perhaps arbitrarily, at 0.5 milligrams a litre, as  
23 that's a number we haven't seen exceeded.

24 I mean, another option, as we've said,  
25 based on the CCME Type A, we're looking at a number

1 of 1.03 milligrams a litre that would be protective.  
2 And even if that were be -- would -- would be  
3 implemented, that could cover all species including  
4 bull trout. However, given the species of bull  
5 trout, another option may be to make sure we have  
6 appropriate action levels, perhaps in the -- in the  
7 range of zero point five (0.5), or -- or initial  
8 monitoring our action levels to make sure we don't  
9 get to a level that could potentially impact bull  
10 trout, so we do have some options there. And as  
11 Nathen said, We'll -- we'll tease them out a little  
12 bit in our intervention. And -- yeah, thanks.

13 THE FACILITATOR: Okay. Lindsey,  
14 Board staff. Does anyone else have any questions  
15 about fluoride that they want to bring up?

16

17 (BRIEF PAUSE)

18

19 THE FACILITATOR: Anyone on the phone  
20 have questions?

21

22 (BRIEF PAUSE)

23

24 MS. CARRIE BRENEMAN (BY PHONE):

25 Yeah, Lindsey. This is Carrie Breneman, with Dehcho

1 First Nations.

2                   Deborah, you mentioned, you know,  
3 fluoride coming from the mine site, as well as  
4 fluoride present at the hot springs and groundwater.  
5 I know that this is probably a difficult question to  
6 ask, but do you have any sense of kind of  
7 contribution of fluoride from the mine versus natural  
8 sources?

9                   I mean, I know you showed your graph  
10 with high levels of fluoride at the hot springs, but  
11 is there a lot of water that comes into the Flat  
12 River from the hot springs?

13                   MS. DEBORAH FLEMMING: Deborah  
14 Flemming, North American Tungsten. Carrie, it is  
15 actually addressed in the memo if -- I'm just trying  
16 to -- to take a quick look through, as to the  
17 calculation. So we did a really simple loading  
18 calculation for the fluoride for the volumes from the  
19 hot springs.

20                   So hot springs fluoride level at four  
21 point seven eight (4.78), discharge at .32 cubic  
22 metres per second. So loading milligrams per second  
23 of fluoride of 1,523 milligrams. So the general con  
24 -- contribution is -- presented in the memo is being  
25 over 50 percent.

1 MS. CARRIE BRENEMAN (BY PHONE):

2 Okay. And is this memo on the -- sorry, I didn't  
3 receive it.

4 Did it come out in an email, or is it  
5 on the -- is it on the registry?

6 MS. DEBORAH FLEMMING: It was  
7 attached on the registry as part of our responses.

8 MS. CARRIE BRENEMAN (BY PHONE):  
9 Okay.

10 THE FACILITATOR: Lindsey, Board  
11 staff. Carrie, just if you go onto the -- to this  
12 review thing -- to this review item, at the top  
13 there's the -- the Proponent's tab, and they -- at  
14 the top of the list of review comments there's a  
15 Proponent's tab, and then there's a bunch of -- bunch  
16 of attachments underneath there. And this was in one  
17 of those. I'm not sure exactly which one it is, but  
18 if you want to find it that's where you can go.

19 MS. CARRIE BRENEMAN (BY PHONE):  
20 Okay. Thanks, Lindsey.

21 THE FACILITATOR: So do we have any  
22 further questions about this particular water quality  
23 objective?

24

25 (BRIEF PAUSE)

1                   THE FACILITATOR:    It sounds like  
2 we're good with this.  And our -- the Board's legal  
3 counsel has arrived, so I think I'll turn it over to  
4 him before we go to break just so we can wrap up that  
5 first topic about Section 26.

6                   MR. JOHN DONIHEE:    Thanks very much,  
7 Lindsey.  My apologies for being a little late.  My  
8 name is John Donihee.  I'm counsel to the Board.  I  
9 know that Angela told me she had mentioned this to  
10 everyone at the outset, or early on, and I don't want  
11 to belabour it but the -- the point that I think the  
12 Board wants to make and -- and underscore for at  
13 least two (2) of the parties is that as -- as you  
14 know, North American Tungsten Corporation is in prot  
15 -- has sought protection from the courts from its  
16 creditors at this point.

17                   My understanding of the materials that  
18 Mr. Krasnick forwarded to me was that they have  
19 another court date in about the 10th -- 9th or 10th  
20 of July.  The protection, of course, could be  
21 extended but the -- the point of -- of this is that  
22 as things stand now the evidence in front of the  
23 court indicates that the -- the Company is insolvent.

24                   And what -- what you all know, or --  
25 or should know, I suppose, is that Section -- or



1 paragraph 25 -- sorry, 26(5)(d) of the Waters Act  
2 says that the Board is not allowed to issue a licence  
3 to a party that is unable to meet the costs of  
4 reclamation as currently set out, and that is unable  
5 to satisfy the terms and conditions that are set out  
6 in the licence.

7                   In other words, to bear the cost of  
8 operating the licensed undertaking in accordance with  
9 the terms and conditions set out in the licence.

10                   So in -- in most instances, this  
11 hardly raises a ripple when we -- we do a water  
12 licensing proceeding. And even in this case, where  
13 you have a going -- or a mine that was a going  
14 concern until just recently, it -- it probably  
15 wouldn't have raised much of a ripple.

16                   But -- but one (1) of the reasons  
17 identified specifically by North American Tungsten in  
18 its filings with the BC court with respect to its  
19 need for creditor protection was the fact that the  
20 most recently issued licence, the amendment licence,  
21 that just -- the minister just -- his approval came  
22 out last week, requires an increase in the amount of  
23 security posted in order to satisfy the requirements  
24 of the licence and that the Company is unable at this  
25 point to -- to do that.

1                   So going forward with the renewal of  
2 the licence, you know, the -- the issue for the Board  
3 is that, you know, unless it has evidence in front of  
4 it that is going to enable it to meet this legal  
5 test, that it -- it really is in-between a rock and a  
6 hard place almost. At the moment, the Board simply  
7 couldn't issue a licence.

8                   Now, between now and the time when  
9 interventions are filed, I understand that the  
10 Company will be back in -- in front of the courts and  
11 an arrangement with the creditors may be -- may be  
12 made. You know, these matters are in the Company's  
13 hands and -- and I wish them well with them.

14                   But -- but I just want to underscore  
15 this evidentiary problem and then finan -- I guess  
16 during -- resulting from the financial difficulties  
17 with the Company, the evidentiary problem that the  
18 Board has. You know, we're going to need evidence  
19 from the Board one way or the other -- so I  
20 apologize, evidence from the Company one way or the  
21 other that, you know, it -- it's going to be able to  
22 meet that test.

23                   And -- and given that the party, of  
24 course, which bears the liability in the end is the  
25 Government of the Northwest Territories. And

1 ultimately, it's a Type A water licence renewal, so  
2 the minister has to approve it. The Board will be  
3 looking to the GNWT to address this issue in the  
4 hearings, as well.

5                   So I guess I won't say more than that.  
6 My intention was simply to provide some explanation  
7 about the problem and to give fair warning both to  
8 North American Tungsten and to GNWT that the Board is  
9 going to need to hear from both of those parties in  
10 order for it to feel comfortable and, ultimately, for  
11 it to be satisfied that it has the evidence it needs  
12 to recommend a licence to the minister.

13                   So that's really all I want to say.  
14 We'll be looking to your interventions, I suppose,  
15 when they're received. Thanks.

16

17                   (BRIEF PAUSE)

18

19                   THE FACILITATOR: Lindsey, for Board  
20 staff. So I think, because the next topic, it looks  
21 like, is -- is nitrogen compounds and it's about  
22 twenty (20) after 10:00, I think we'll just head to  
23 the break right now for twenty (20) minutes and come  
24 back at 10:40, okay?

25

1 --- Upon recessing

2 --- Upon resuming

3

4 PRESENTATION BY AMERICAN TUNGSTEN AND QUESTIONS:

5 MS. DEBORAH FLEMMING: ...to point to  
6 the Flat River under the water licence as well as  
7 MMER. And -- there it is. And so the information in  
8 the evaluation report, the data went from the start  
9 of our water treatment facility to the end of  
10 December 2014, which is where we, at that point, were  
11 below the water quality objective that was proposed.

12 A couple of questions came back. And  
13 what we saw was an interesting trend with nitrites  
14 increasing, and also trending over approximately  
15 three (3) week period. So the red dotted line at the  
16 bottom is the objective that was proposed. And the  
17 S4-44 is the dark green, which is down in the lower  
18 section but still above that red line.

19 So when the questions came and we  
20 graphed everything we had to date and saw this, of  
21 course, we started investigating what was the cause,  
22 where the -- where this was going from, and just to  
23 look at the trends and what was going on.

24 So we did note a few items. So points  
25 to look at are April 2013, which is where the

1 temporary water treatment plant started discharging  
2 or roughly. The numbers prior were not discharge  
3 numbers, but just numbers sampled for prior to  
4 discharge. And then we operated the -- the temporary  
5 water treatment plant through the year. And then in  
6 July 2014, the tailings moved from TP4 depositing in  
7 -- directly into the TP5.

8                   And so TP5 is where the raw water is  
9 pulled for the water treatment facility. And so in  
10 July we saw the tailings discharge go directly into  
11 TP5. We did see an increase in TSS within that raw  
12 water feed, but that the water treatment plants were  
13 still able to cope and -- and work as anticipated.

14                   In the beginning of August 2014, the  
15 permanent wastewater treatment facility started. And  
16 that -- and that's the approximate time that the  
17 sewage treatment plant effluent was also directed  
18 towards TP5. So prior to that it was the effluent  
19 from the sewage treatment plant would go into TP4 and  
20 go through the typical exfiltration.

21                   When we moved it over, it now goes  
22 into basically a -- a wet well that doesn't  
23 exfiltrate in TP4 and is on a float system. So it's  
24 automatically pumped over to TP5. And that discharge  
25 is in the similar location as the sludge line and

1 about 40 or 50 metres away from the raw water intake  
2 for the water treatment plant.

3                   The days of increased discharge where  
4 they flow from the water treatment plant to the Flat  
5 River was over forty-five hundred (4,500) occurred in  
6 September during our plume study. Those were the  
7 only days where we were over that forty-five hundred  
8 (4,500) discharge from the water treatment facility.

9                   And then we looked at this trend and  
10 when I initially looked at it it's on a three (3)  
11 week cycle which is what we work at the mine. So our  
12 first question was is there an operator doing  
13 something different than the others. So we went back  
14 and looked at procedures and -- and tried to line  
15 them up to see if they matched up with anybody's  
16 scheduled and they don't. So we eliminated that as a  
17 -- a factor. And then we started looking into the  
18 nitrogen cycle which can typically be on a three (3)  
19 week cycle.

20                   So a couple of other things we've  
21 noticed is during this time frame from January to  
22 about May or April we do have ice on the surface of  
23 TP5. There is a small opening in the area of  
24 discharge and there is around the intake, but  
25 predominantly ice covered. So looking at potentially

1 increased anaerobic conditions. And then the latest  
2 results we have are numbers at S4-44 as well as the  
3 water treatment facility and discharge have dropped  
4 back down.

5                   So in discussions with some of the  
6 chemists we were talking about the nitrogen cycle and  
7 the fact that there's a potential that dissolved  
8 oxygen and -- and such are -- are limited. And so  
9 we're -- I'm not sure of the correct word --  
10 arresting? We're slowing down or -- or stopping that  
11 cycle partway because we don't have that oxygen  
12 available.

13                   So one (1) of the solutions that we  
14 are currently moving forward on is increased  
15 aeration. There's a couple of very simple systems  
16 where we would aerate within TP5 and so looking to ma  
17 -- make sure we select one (1) that can work and  
18 function through the winter. So something as simple  
19 as having an additional pipe that runs around the  
20 intake of the -- for the water treatment facility  
21 that actually spreads the water back in would keep  
22 the water open more and just the aeration from the --  
23 the spraying to increase and decrease the -- the  
24 nitrite levels and complete that conversion to  
25 nitrate.

1                   Of course, being that it is summer and  
2 we have seen those numbers drop, it will be a bit of  
3 a challenge for us to confirm, but we are hoping that  
4 with increased oxygen we can at least observe a -- a  
5 change in the nitrite nitrate cycle. So that's  
6 something that -- that we're looking at and working  
7 on and that we believe is -- is part of this issue  
8 here, and this being the first year that we have seen  
9 it because of all of those factors lining up right  
10 before we went in to that -- that season, so.

11                   That's kind of the input of the things  
12 we're looking at and -- and such. So I'll put it  
13 back to everybody if they have questions.

14                   THE FACILITATOR:   Lindsey, Board  
15 staff. Do we want to start with some questions here?  
16 I notice Dehcho First Nation and ENR had some  
17 questions about this topic.

18                   ENR, are you prepared to start here?

19                   MR. RICK WALBOURNE:   Rick Walbourne,  
20 ENR. Thanks for that, Deborah. Just a couple of  
21 quick questions.

22                   You did mention you're going to start  
23 working on the aeration. Did you -- I'm not sure if  
24 I caught -- when were you planning on starting that  
25 work? Immediately? I didn't think you thou -- you



1 said you were going to start it this summer.

2 Is that correct?

3 MS. DEBORAH FLEMMING: Deborah  
4 Flemming, North American Tungsten. Yeah. Yes, we're  
5 in the process of developing and figuring out how  
6 we're going to do that. As soon as we are able we  
7 will move forward on that, sooner as we can.

8 MR. RICK WALBOURNE: Thanks. Rick  
9 Walbourne, ENR.

10 You did mention, as well -- I'm not --  
11 I'm not sure exactly when you say -- or when you said  
12 sewage was -- I know sewage has been added to TP5.  
13 Could you let -- just reiterate when sewage has been  
14 started at -- been added to TP5?

15 Is this always the process, or have  
16 you seen any kind of connection between there as --  
17 you know, I'm trying to get a handle on the quantity  
18 of sewage versus the quantity of tailings. I don't  
19 think it's a -- a large portion, because obviously  
20 sewage could have some role in reducing oxygen.

21 I'm just wondering if you've seen any  
22 specific links just regarding that start up plan.  
23 You did mention it there briefly, so.

24 MS. DEBORAH FLEMMING: Deborah  
25 Flemming, North American Tungsten.

1                   So our sewage does go to the sewage  
2 treatment plant and it is the effluent that is  
3 discharged to the tailings. And that has happened  
4 for quite a number of years.

5                   One (1) of the items that -- that we  
6 believe may be contributing is the ammonia levels and  
7 the bacterial component that may still be present in  
8 the effluent that is being discharged to TP5 in the  
9 area of the -- the sludge from the water treatment  
10 facility.

11                  We have -- I just recently collected a  
12 water sample from the effluent discharge and noticed  
13 that it does have a reasonably high ammonia levels in  
14 the order of 10 to 15 milligrams per litre. When we  
15 talk about volumes, we're at approximately 150 to 160  
16 cubic metres of sewage treatment effluent discharge  
17 on a twenty-four (24) hour basis, whereas the  
18 underground mine and tailings is -- sorry, the  
19 underground water is about 3,000 cubic metres a day  
20 and tailings can be up to 2,000.

21                  MR. RICK WALBOURNE:     Rick Walbourne,  
22 ENR. Just for a clarification there, Deborah. You  
23 mentioned the -- the effluent from the sewage  
24 treatment plant and then you -- you mentioned a bit  
25 about sludge as well. So is the sludge -- is the

1 treated water and the sludge both going there, or --  
2 I'm not sure if I followed that.

3 MS. DEBORAH FLEMMING: Deborah  
4 Flemming, North American Tungsten.

5 Sorry. The effluent is the treated  
6 water. The sludge is from the water -- wastewater  
7 treatment facility, so that's the solids from the  
8 tailings that we're pulling out, so two (2) separate  
9 plants, so sewage treatment being the effluent  
10 discharge and the sludge coming from the wastewater  
11 treatment facility. They are discharged in a similar  
12 area within TP5.

13 MR. PAUL GREEN: It's Paul Green, with  
14 Water Resources. So -- so effluent -- sewage  
15 effluent is now discharged to TP5.

16 Did it not used to be discharged to  
17 TP3? When did that change, if -- if remember  
18 correctly?

19 MS. DEBORAH FLEMMING: Deborah  
20 Flemming, North American Tungsten. Up until July  
21 2014, the sewage effluent was discharged into TP4.  
22 And I believe prior to that, it was in TP3. So when  
23 TP3 was a tailings -- receiving tailings I believe  
24 the sewage went there. And when the tailings moved  
25 into TP4 and TP4 stopped being exfiltration, I

1 believe that's the time frame that it moved over  
2 there. And now that TP4 is essentially full, it is  
3 pumped over to TP5.

4 MR. PAUL GREEN: So it started post-  
5 July 2014 then?

6 MS. DEBORAH FLEMMING: Deborah  
7 Flemming, North American Tungsten. That's correct.

8 MR. PAUL GREEN: Paul Green, with  
9 Water Resources. One (1) more question. Looking at  
10 the -- at the line, like, it's not a steady increase.  
11 It's kind of a stuffed in -- like, it's a cycle over  
12 -- over a month sort of from a low sort of up, and  
13 then stepping up, and then coming down, stepping up  
14 and coming down.

15 Any thoughts on why we're observing  
16 that trend?

17 MS. DEBORAH FLEMMING: Deborah  
18 Flemming, North American Tungsten. When we are  
19 looking at this, this does look like the nitrogen  
20 cycle, potentially where it is building up, then gets  
21 some oxygen to -- to move it down. It's something  
22 that we're still investigating as to why we have this  
23 roughly three (3) week trend oscillating as it is  
24 increasing.

25 MR. PAUL GREEN: Paul Green. One (1)

1 more question. Do you have -- have you produced sort  
2 of a similar graph with the nitrate, just out of  
3 curiosity?

4 MS. DEBORAH FLEMMING: Deborah  
5 Flemming, North American Tungsten. Yes, in fact, I  
6 have. It is similar in the oscillation pattern, not  
7 quite the same on a trending pattern and does appear  
8 to be slightly opposite in its three (3) week trends.  
9 And I can provide those.

10

11 (BRIEF PAUSE)

12

13 THE FACILITATOR: Okay, Lindsey,  
14 Board staff. Okay, so we'll take that as IR-2, to  
15 provide those graphs.

16

17 --- INFORMATION REQUEST NO. 2: NATCL to submit to  
18 the MVLWB by June 25, 2015:  
19 a) Graphs of nitrate and nitrite at  
20 Surveillance Network Program station  
21 4-6 prior to when the Sewage Treatment  
22 Plant effluent was discharged to TP-4;  
23 and  
24 b) Graphs of nitrite in surface water  
25

1 THE FACILITATOR: Did you have --  
2 while I'm on the microphone, did you look at 4 -- at  
3 46 from before? Because if you were -- I'm just  
4 trying to understand if this didn't happen in TP4  
5 before because it would have iced over, as well. I  
6 mean, you were -- I think I'm understanding. You  
7 were putting this -- the SUP (phonetic) effluent into  
8 TP4. And then the decant would have gone into TP5.  
9 And 46 is the decant.

10 So I'm just wondering if that was a  
11 trend that was occurring before?

12 MS. DEBORAH FLEMMING: Deborah  
13 Flemming, North American Tungsten. I have graphed  
14 that. Let me just pull it up.

15

16 (BRIEF PAUSE)

17

18 MS. DEBORAH FLEMMING: So there does  
19 not appear to be a similar trend, although there is -  
20 - there is a pattern of increase and decrease  
21 throughout.

22 THE FACILITATOR: Lindsey, for the  
23 Board. When you mean a pattern of increase and  
24 decrease do you mean, like, seasonally, like -- like  
25 this is, or...?

1 (BRIEF PAUSE)

2

3 MS. DEBORAH FLEMMING: Deborah  
4 Flemming, North American Tungsten.

5 An increase and decrease, although it  
6 does not appear initially to be seasonal. No, I'm  
7 going to recall that statement. It does. I'll  
8 provide these. I -- I have a couple of hard copies  
9 that I can provide at the moment so we can take a  
10 quick look.

11 THE FACILITATOR: Lindsey, for Board  
12 staff. Okay. So we'll add that to -- to IR-2 as  
13 well to get those for the record.

14 So in short, I guess what you're --  
15 what you're looking at doing is not so much  
16 decreasing the nit -- nitrogen compounds. It's more  
17 changing the form to a less toxic form basically in  
18 your discharge by the aeration.

19 Is that -- is that what you're looking  
20 at investigating?

21 MS. DEBORAH FLEMMING: Deborah  
22 Flemming, North American Tungsten.

23 Yes, that's correct. However, we are  
24 of course looking to reduce any other nitrogen  
25 compounds as much as we can, including ensuring our

1 explosives management is well handled and those types  
2 of issues and items.

3 THE FACILITATOR: Okay. Lindsey, for  
4 Board staff.

5 Sorry, ENR, are you complete with your  
6 questioning?

7

8 (BRIEF PAUSE)

9

10 THE FACILITATOR: Carrie on the  
11 phone, did you have any follow-up questions about  
12 this topic?

13 MS. CARRIE BRENEMAN (BY PHONE):

14 Yeah. I just had a couple of questions here.

15 Deborah, on the graph, so kind of September 2014 is  
16 when we kind of started to see that increase. And  
17 below you have an increase in discharge greater than  
18 4,500 metres cubed.

19 Is there some event there that you  
20 think drove that trend kind of increase after  
21 September?

22 MS. DEBORAH FLEMMING: Deborah  
23 Flemming, North American Tungsten. I guess two (2) -  
24 - two (2) answers. One, the increased discharge was  
25 for three (3) days, and I don't believe that's a



1 significant driver of any of these items. And the --  
2 all the rest of the data shown prior to May 2015 are  
3 at the below 4,500 cubic discharge.

4 The trend that we believe we're seeing  
5 is the decreased temperatures and the beginning of  
6 the ice formation on the TP5.

7 MS. CARRIE BRENEMAN (BY PHONE): And  
8 when did start -- ice start to form on TP5 kind of  
9 relative to this graph?

10 MS. DEBORAH FLEMMING: Deborah  
11 Flemming, North American Tungsten. Ice begins to  
12 form and we start getting freezing temperatures in  
13 October. We have significant ice coverage in  
14 November, and near fully ice coverage in January.

15 MS. CARRIE BRENEMAN (BY PHONE): And  
16 then also I kind of find it interesting because in  
17 kind of the -- like winter of 2013/2014, like when  
18 you would have had those ice-on conditions, nitrogen  
19 was actually quite low. Or, sorry, nitrate was quite  
20 low on your graph.

21 MS. DEBORAH FLEMMING: Deborah  
22 Flemming, North American Tungsten.

23 We believe it is connected with a  
24 decreased amount of oxygen in TP5 that's associated  
25

1 with the direct deposit of tailings that moved from  
2 TP4 to TP5 in January 2014.

3 MS. CARRIE BRENEMAN (BY PHONE): Oh,  
4 okay. Okay. Thanks, Deborah.

5 THE FACILITATOR: Lindsey, Board  
6 staff. Does anyone else have any questions about  
7 nitrite or other nitrogen compounds?

8 MR. PAUL GREEN: It's Paul Green,  
9 with Water Resources. One (1) last question I -- we  
10 have. It just came to mind.

11 Are we seeing an overall increase in  
12 nitrogen loading, all nitrogen compounds, at the end  
13 of the pipe, or is it sort of the same amount we've  
14 been seeing over -- historically, just -- just the  
15 form has been changed around?

16 I'm just curious if you've done any  
17 sort of loading calculations at end of pipe?

18 MS. DEBORAH FLEMMING: Deborah  
19 Flemming, North American Tungsten.

20 I have not done any form of loading  
21 calculations at end of pipe. I hadn't gotten to that  
22 point, to be honest.

23 MR. NATHEN RICHEA: It's Nathen  
24 Richea, Water Resources. I just have a question  
25 because I'm not aware.

1                   What type of sewage treatment plant do  
2 you have on site for the operation?                   MS.

3 DEBORAH FLEMMING:   Deborah Flemming, North American  
4 Tungsten.

5                   Now I'm embarrassed to say I don't  
6 know.   It's an older one.   It has been there since  
7 the time -- the town site was there.   Initially put  
8 in, in the early to mid '70s and upgraded in about  
9 1976, I believe.   The Sewage Management Plan and  
10 stuff has the full description of the plant and its  
11 processes.

12                   MR. NATHEN RICHEA:   Thank you.   It's  
13 Nathen Richea.   That's probably why I don't remember  
14 either.   I haven't read that plan in a while.

15                   Just wondering, it would seem then  
16 it's your position that the nitrates are typically  
17 coming from sewage and not from other sources.   I  
18 guess the spikes in the -- the figure, it -- it would  
19 seem from your perspective that it's mostly from the  
20 sewage and not from the underground or from blasting.

21                   MS. DEBORAH FLEMMING:   Deborah  
22 Flemming, North American Tungsten.   One (1) thing we  
23 have noted, when we introduced the temporary water  
24 treatment plant we did do a full review of the  
25 explosives management.   And we actually reduced the

1 amounts of ammonia and such coming out of the  
2 underground mine from about fours and fives down to  
3 where we're fairly constant, around 2 milligrams per  
4 litre. We are fairly confident that it is not coming  
5 from the underground.

6 THE FACILITATOR: Lindsey, for Board  
7 staff. Just to come back to something I think I  
8 heard you saying about not having gotten to loading  
9 calculations yet.

10 Is that something that you're thinking  
11 of working on? Not really? Maybe you would consider  
12 working on that as an Information Request just to  
13 give us an idea?

14 Is that something that you could come  
15 up with?

16 MS. DEBORAH FLEMMING: Deborah  
17 Flemming, North American Tungsten.

18 I think as -- as part of the  
19 completion of the in -- investigation it -- it is  
20 something that we'll look at. I'm not quite sure of  
21 the format, but some type of loading assessment for  
22 sure.

23 THE FACILITATOR: Okay. Lindsey, for  
24 Board staff.

25

1                   So this is more of the investigation  
2 you were talking about kind of doing over a full  
3 year? I think you mentioned in your responses to  
4 review comments that you could potentially do an inf  
5 -- in -- investigation that would cover a full year  
6 and then potentially submit something on that  
7 investigation? And there's a couple of things that  
8 I'm just wondering about including in that, one (1)  
9 of those being a loading assessment.

10                   And the other thing that I was  
11 wondering is, you know, if you are planning to look  
12 at this aeration is that going to affect your ability  
13 to meet your nitrate EQC?

14                   MS. DEBORAH FLEMMING:     Deborah  
15 Flemming, North American Tungsten.

16                   To the first question, yes, I believe  
17 that's something that we can look to do -- include as  
18 a full investigation and put forward as a submission.  
19

20                   (BRIEF PAUSE)

21

22                   MS. DEBORAH FLEMMING:     And the second  
23 item -- look so focused...

24                   THE FACILITATOR:     Lindsey, Board  
25 staff. That was an assessment of how doing the

1 aeration is going to affect your ability to meet your  
2 -- meet your nitrate EQC since that's what you'd be  
3 converting to.

4 MS. DEBORAH FLEMMING: Deborah  
5 Flemming, North American Tungsten.

6 The initial look at -- that -- that we  
7 have undertaken internally does not look to impact  
8 that ability to meet the nitrate objective.

9 THE FACILITATOR: Lindsey, for Board  
10 staff. Okay. So you -- you've already looked at  
11 that aspect? Okay. So that's not something you  
12 would necessarily include in the inves --  
13 investigation report unless it came up as an issue.  
14 And so in terms of timeline, if we were thinking  
15 about having a condition for this, I'm just wondering  
16 if what you mean by a full year is kind of starting  
17 with some of the -- this 2015, 2014/2015 data and  
18 then into -- or if you would want to be looking at  
19 from now until a year from now.

20 MS. DEBORAH FLEMMING: Deborah  
21 Flemming, North American Tungsten.

22 I think it would be beneficial for us  
23 to be able to see another winter cycle to about June  
24 so that we can see if we -- to -- to ensure that we  
25 don't get the same trending and to be able to

1 facilitate the time to ana -- analyze that data and  
2 put that forward. We're at mid-June, so I guess that  
3 does look like a year from now.

4 THE FACILITATOR: Lindsey, for Board  
5 staff. Okay, so just if people are sort of thinking  
6 about what that kind of -- what they'd want to see in  
7 that kind of investigation. Maybe just make mention  
8 of that in your intervention if you have some  
9 suggestions or recommendations for what that  
10 investigation should look like based on what we've  
11 seen here so far.

12 So any other questions about nitrogen?  
13 We're at about quarter after 11:00 here. So we can  
14 move into the next topic if people are ready. Anyone  
15 on the phone, any follow-up?

16

17 (BRIEF PAUSE)

18

19 THE FACILITATOR: I'm going to take  
20 that as a no. And we'll move on to -- to the metals.

21

22 And, Deborah, I think you have a few  
23 opening slides for that, right?

24

25 PRESENTATION BY NORTH AMERICAN TUNGSTEN - METALS:

1 MS. DEBORAH FLEMMING: Deborah  
2 Flemming, North American Tungsten.

3 So we have aluminum up first. And a  
4 couple of the questions that came up asked about --  
5 or we had said that we felt that there was  
6 potentially a natural background level that was  
7 driving some of these. And so this graph, where  
8 we've basically graphed a fair number of the surface  
9 items, some of the outliers are actually the Bunsen  
10 Creek just the way I pulled the data.

11 But what you can see are two (2)  
12 distinct appearances of seasonal trends where all  
13 items rise up from May 2013 and drop down. And  
14 again, starting in May we get an increase in those  
15 levels, and that is across most of the stations.  
16 Even S4-29, which is this bright green one, pops up  
17 above that objective in August 2013. And again, it  
18 pops up with everything else in the summer of 2014.

19 So that's where the appearance of the  
20 seasonal -- seasonality of the increased aluminum is  
21 -- is why we felt that that was perte -- perhaps a  
22 natural cycle on that increase. This most recent one  
23 here we believe may be at the end in May/June 2015.  
24 We're actually investigating our supplier of the  
25



1 coagulant used in the water treatment facility as it  
2 appears that they have changed their product on us.

3                   And so we're doing a full  
4 investigation on that particular supplier to see.  
5 We're not sure if that's part of the seasonal trends  
6 we've seen before. But given that it appeared to be  
7 a much larger jump than we had seen previously, we've  
8 initiated an internal investigation on that  
9 particular item.

10

11                   (BRIEF PAUSE)

12

13                   THE FACILITATOR: Lindsey, for Board  
14 staff. So I think we'll just talk about aluminum  
15 first, and then move on to other parameters.

16                   Does anyone have any questions about  
17 aluminum?

18

19                   (BRIEF PAUSE)

20

21                   MS. CARRIE BRENEMAN (BY PHONE): It's  
22 Carrie Breneman, Dehcho First Nation. Thanks,  
23 Deborah. This kind of satisfies the -- the question  
24 that I asked in my Information Request. And just to  
25

1 clarify, too, you also had elevated levels of  
2 chromium and zinc.

3 Do you see the same kind of trend with  
4 those two (2) metals as you do with aluminum?

5 MS. DEBORAH FLEMMING: North --  
6 Deborah Flemming, North American Tungsten. It's not  
7 as pronounced. And perhaps if we -- well, I do have  
8 the same types of trends produced -- or graphing  
9 produced, and so we can look and see what that looks  
10 like.

11 THE FACILITATOR: Lindsey, for Board  
12 staff. We'll just maybe finish up with aluminum  
13 first. Are you --

14 MS. CARRIE BRENEMAN (BY PHONE):  
15 Okay.

16 THE FACILITATOR: Rick, do you have a  
17 question there?

18 MR. RICK WALBOURNE: Rick Walbourne,  
19 ENR. As per our comment, we did note that Tungsten  
20 identified exceedances of the water quality objective  
21 for aluminum, chromium, and zinc. So this is -- I'll  
22 include this in our aluminum.

23 I guess the question is: Is the  
24 Proponent requesting an amendment to these water  
25 quality objectives or are they just investigating why

1 these anomalous exceedences took place? So that  
2 would obviously drive how much work would have to be  
3 done on the intervention. And so, yeah, I guess  
4 that's the question.

5 MS. DEBORAH FLEMMING: Deborah  
6 Flemming, North American Tungsten.

7 Given that there are seasonal trends  
8 and other than those seasonal time frames we can meet  
9 the objective. We were going to ask the Board staff  
10 if there is some way of I guess adjusting or  
11 accommodating for natural levels when you see the  
12 increases in the background stations like twenty-nine  
13 (29) as well, or do we have to look at a general  
14 increase to the objective overall.

15

16 (BRIEF PAUSE)

17

18 THE FACILITATOR: Lindsey, for Board  
19 staff. I'm just trying to think of any examples  
20 where we might have had seasonal water quality  
21 objectives. And -- and I'm not sure off the top of  
22 my head. But there might be possible -- I can't -- I  
23 don't know. I can't think of any off the top of my  
24 head, but I can definitely look into that to see if  
25 that's something we've done before. And I -- I mean,

1 I could see how it could be a consideration. I'm  
2 just not sure if there's an -- if there's enough data  
3 to -- right now to do that.

4 Do -- have you -- I -- I mean, it's  
5 really hard to see just like this, but have you done  
6 sort of any trend analysis on it? Because I'm just  
7 wondering, like, in the last year it kind of looks  
8 like it's sneaking up a bit. And I -- I mean, that's  
9 just -- that's basically just a visual. It's not  
10 really a very obvious trend. I'm just wondering if  
11 there's been any analysis done to assess that.

12 MS. DEBORAH FLEMMING: Deborah  
13 Flemming, North American Tungsten. No, we have not  
14 done that. That's something we could look at in a  
15 more specific detail.

16 THE FACILITATOR: Lindsey, for Board  
17 staff.

18 Yeah, and I -- maybe you could do that  
19 because it -- it doesn't really seem to be increasing  
20 so much in the actual river. It seems to be staying  
21 fairly low. But I just -- in your wastewater it  
22 looks like it's kind of sneaking up a little bit.  
23 And that -- that's a -- I mean, that's a separate --  
24 that's an aside from the seasonal variation.

25

1                   Is that something that you could do as  
2 an IR or would you need to -- to give it longer? I'm  
3 just not sure who does these kinds of things at your  
4 shop.

5                   MS. DEBORAH FLEMMING:     Deborah  
6 Flemming, North American Tungsten.

7                   I might need more than a week to  
8 complete that one. Two (2) to three (3) weeks would  
9 be helpful.

10

11   (BRIEF PAUSE)

12

13                   THE FACILITATOR:     Lindsey, for Board  
14 staff. I'm just trying to see if that's something we  
15 could get in before the pre-hearing conference here  
16 if we gave you an extra week or something to look at  
17 it. Because the IRs are June 25th.

18                   MS. DEBORAH FLEMMING:     Deborah  
19 Flemming, North American Tungsten.

20                   I can do an initial look and provide  
21 what I can get done in a week and we can go from  
22 there.

23

24   (BRIEF PAUSE)

25

1 THE FACILITATOR: Lindsey, for Board  
2 staff.

3 Would people be okay with seeing that  
4 for July 2nd instead of June 25th if that's -- the  
5 interventions are due on July 14th, so I'm not sure  
6 if that's enough time for people to -- to look at  
7 that analysis as part of their intervention writing.

8

9 (BRIEF PAUSE)

10

11 MS. CARRIE BRENEMAN (BY PHONE):

12 Sorry, Lindsey, could you say that again? So our  
13 response to IRs are due July 14th and you're  
14 proposing that North American Tungsten submits on  
15 July 2nd, just that one (1) component?

16 THE FACILITATOR: Lindsey Cymbalisky,  
17 Board staff. It's not actually -- it's your  
18 interventions that are due on the 14th. You don't --

19 MS. CARRIE BRENEMAN (BY PHONE):

20 Yeah.

21 THE FACILITATOR: Yeah. But, yeah,  
22 that's what I'm saying. July 14th is interventions  
23 and just for this particular IR response if we could  
24 allow an extra week?

25

1 MS. CARRIE BRENEMAN (BY PHONE):

2 Yeah, I have no -- Carrie Breneman, Dehcho First  
3 Nation. I have no problem with that.

4

5 (BRIEF PAUSE)

6

7 MR. NATHEN RICHEA: It's Nathen  
8 Richea, Water Resources ENR. Yeah, we'll do our best  
9 to -- to look at the information. There's a few  
10 things going on right now, but we'll do our best to  
11 look at that and incorporate any thoughts into our  
12 intervention.

13 THE FACILITATOR: Lindsey, Board  
14 staff. Environment Canada, is that all right with  
15 you?

16 MS. MELISSA PINTO: Melissa Pinto,  
17 Environment Canada. That sounds fine.

18 THE FACILITATOR: Okay. Lindsey, for  
19 Board staff.

20 And then as far as the sort of  
21 potential for a seasonal water quality objective, or  
22 just generally considering a higher water quality  
23 objective to inc -- to account for seasonal  
24 variability, if people could think about that as well  
25 when you're preparing your interventions, what you

1 would prefer to see and some -- some rationale for --  
2 for your recommendation.

3

4 --- INFORMATION REQUEST NO. 3: NATCL to submit to  
5 the MVLWB by July 2, 2015, a trend  
6 analysis of the total aluminum data at  
7 Surveillance Network Program stations  
8 4-6, 4-20, and 4-43

9

10 MR. RICK WALBOURNE: Rick Walbourne,  
11 ENR. I guess this -- that goes back to the original  
12 question, it's hard for us to assess a water quality  
13 objective unless we know if the proponent is  
14 proposing a new one.

15 So, I mean, it's not really up to us  
16 to propose new water quality objectives and all the  
17 parameters. The -- the question was given that  
18 they're seeing some spikes, are they proposing a new  
19 water quality objective.

20 The question then was from the  
21 Proponent to the Board on whether or not they would  
22 entertain a seasonal water quality objective. And I  
23 would, while I'm on the mic as well, if I recall, and  
24 Paul can correct me if I'm wrong, I think something  
25 similar was done for Fortune Minerals -- or sorry,



1 Avalon. Avalon potentially for iron, based on  
2 background, because they were seeing a substantial  
3 seasonal spike in levels so they actually had a  
4 different water quality objective for seasonal.

5                   So we think it's settled. We just  
6 looked at it recently for some reason.

7                   THE FACILITATOR: Lindsey, for Board  
8 staff. So I guess I don't -- I don't know the answer  
9 as to whether Deborah is actually proposing a new  
10 water quality obje -- or North Americ -- American  
11 Tungsten is actually proposing -- and you're right,  
12 to -- to really answer that question you do need --  
13 we do need to know if you are actually requesting one  
14 and what it would -- what it would be.

15                   I guess my quest -- in that absence of  
16 that I was sort of looking to have thoughts on  
17 whether it would -- not necessarily what the numbers  
18 would be, but whether it would make sense to have a  
19 seasonal water quality objective or just a higher  
20 water quality objective?

21                   MS. DEBORAH FLEMMING: Deborah  
22 Flemming, North American Tungsten.

23                   I just want to say, of the aluminum  
24 for S4-44, it's only been the -- the once and then  
25 the recent. So over almost two (2) years of data,

1 one (1) exceedance with a -- with an explanation of  
2 background levels.

3 I guess is that something that we look  
4 at. And provided that there is a reasonable  
5 explanation without increasing an objective given  
6 that. And then obviously I'm going to try my best to  
7 get IR-3 turned around within the next week so that  
8 we can provide more information. The sooner the  
9 better.

10 And again, also forwarding my  
11 investigation with our supply. The aluminum is a  
12 primary component of the coagulant and so could be an  
13 impact, so I am moving forward on that investigation.  
14 I do not know if I'll have that available prior to  
15 the interventions.

16 THE FACILITATOR: Okay. Lindsey, for  
17 Board staff. Okay. So I think when people are  
18 looking at, for example, your SNP reports and your  
19 annual reports, they do consider explanations of  
20 natural background as reasons for not meeting your  
21 water quality objective, in terms of actual  
22 compliance with your water licence. It's meeting  
23 your -- your EQC, that is really the issue.

24 So if you're meeting your EQC then  
25 that's -- that's really not a compliance issue. But

1 if you had sort of repeated exceedances of your water  
2 quality objective without a reasonable ex --  
3 explanation then we would be looking at your water  
4 quality objective and your EQC again.

5                   And -- and so, you know, I don't -- I  
6 think you have that explanation there and it's -- and  
7 you're still meeting your EQC. And so, to me, I'm  
8 not sure if it's really necessary to actually change  
9 the water quality objectives. So -- but I can't --  
10 you know, I can't really speak for the Board's final  
11 decision on that.

12                   So that's -- that's maybe -- that's  
13 maybe the question is: Do people think that there's  
14 a -- a real need to -- to reassess the water quality  
15 objective in this case based on sort of a limited  
16 amount of data?

17                   MR. NATHEN RICHEA: Thank you. It's  
18 Nathen Richea, Water Resources, ENR.

19                   I'm going to just provide a bit of a  
20 background on how this is all envisioned, at least  
21 from our perspective, for EQC site-specific water  
22 quality objective, aquatic effects monitoring  
23 programs, and sort of SNP I guess monitoring.

24                   The idea of having water quality  
25 objectives for the receiving environment is, one (1),

1 to assure that we're having -- or for protecting the  
2 downstream environment from -- from impacts.

3                   And the reason why the water quality  
4 objectives apply outside a zone of influence is there  
5 is an allotment for mixing zones under the MMER,  
6 Metal Mining Effluent Regulations, where a zone of  
7 potential chronic toxicity could occur.

8                   So what we're trying to do is assure  
9 that any effluent quality criteria that we establish  
10 in a water licence, one either achieves the SSWQO or  
11 water quality objective, at the edge of the mixing  
12 zone, but, two (2), that the water quality objectives  
13 that are selected account for natural conditions and  
14 potential impacts for sensitivities to various  
15 species in the receiving environment. In this case,  
16 it's Flat River.

17                   Sometimes, there's some uncertainty in  
18 setting water quality objectives. Some of that might  
19 be the absence of particular baseline data or  
20 reference data from source creeks or other areas that  
21 have contributed -- contributed contaminants or  
22 metals, I guess, in this instance, to the -- to the  
23 receiving environment.

24                   And we ran into that when we looked at  
25 the transition, the amendment for the waste water

1 treatment plant, the permanent treatment plant, in  
2 the amendment to the water licence.

3                   We needed additional information to --  
4 in order to us to fully assess, one (1), the mixing  
5 characteristics within the Flat River, within the  
6 mixing zone, and, two (2), what the baseline  
7 concentrations were for some of these source creeks  
8 and, you know, the natural variability, I guess, in -  
9 - in the area.

10                   So we're getting pieces of the  
11 information provided now, but I don't think we have  
12 enough right now to really assess whether the water  
13 quality objectives that we have been -- that have  
14 been assumed are appropriate, or whether they need to  
15 be changed. And that -- therein lies the issue.

16                   I think from -- from our perspective,  
17 that's why we were interested in looking at the  
18 Aquatic Effects Monitoring Program to see if we can -  
19 - through the monitoring of aquatic species, we can  
20 determine whether the objectives are appropriate.

21                   Now, sometimes there are natural  
22 sources. And if it's only a few spikes that are  
23 causing the exceedance of the objective, then that's  
24 something that needs to be considered. But really,  
25 what's important is we need the monitoring data to

1 really assess how frequently that occurs and how  
2 large the spikes are and what the potential sources  
3 of those spikes could be.

4                   So in a long story short, we're  
5 concerned if there are exceedances in the water  
6 quality objectives. Our concern is measured because  
7 we need to understand what the sources of those  
8 exceedances are.

9                   What we need to do in order to assess  
10 that is the monitoring, and there's a separate  
11 section in the agenda that talks about that. But,  
12 from our perspective, that's what we're interested in  
13 pursuing and -- and looking at for this operator.

14                   THE FACILITATOR: Lindsey, for Board  
15 staff. So I think what I'm hearing is at this point  
16 we're not really in a position to reassess this water  
17 quality objective. And that is something that we can  
18 do again possibly through the AEMP once it's in place  
19 and we have some data through that, as well as some  
20 continued data through the SNP to put us in a  
21 position to better assess the suitability of the  
22 current water quality objective.

23                   Nathen's not jumping on me, so maybe I  
24 got it right.

25

1 I just want to capture -- capture an  
2 IR that was in here which was an -- an assessment of  
3 -- or a -- a trend analysis for the aluminum, total  
4 aluminum data, in your -- in your effluent for July  
5 2nd.

6 So do we have any other questions from  
7 anyone on aluminum?

8

9 (BRIEF PAUSE)

10

11 THE FACILITATOR: I think we can  
12 safely and efficiently move on to talking about  
13 chromium or zinc, whichever is coming up next here.  
14 Chromium. Go ahead, Deborah.

15

16 (BRIEF PAUSE)

17

18 MS. DEBORAH FLEMMING: Deborah  
19 Flemming, North American Tungsten. So again, I've  
20 plotted a lot of the surface water quality stations,  
21 and the red dash line, which shows the objective.  
22 The dark green line touches the objective in August  
23 2013, and exceeds it in January 2014.

24 The yellow spike that we see going off  
25 is actually the culvert discharge into Flat River.

1 We do have a question in with the lab to check their  
2 QA/QC. We would anticipate a similar spike in the  
3 water treatment facility, the light blue line, if, in  
4 fact, that was the source of -- of the water.

5                   So we are currently investigating that  
6 this is a contamination sample issue, and fully  
7 investigating that component. But as you can see,  
8 there's not much for trending, and I am still  
9 investigating this particular metal.

10                   THE FACILITATOR: Lindsey, for Board  
11 staff. So do we have any questions about the graph  
12 and data that Deborah has put up here? I'm assuming  
13 that everyone on the phone now has copies of the  
14 presentation and -- and can see what we're talking  
15 about here. And you can correct me if I'm wrong.

16

17                   (BRIEF PAUSE)

18

19                   MR. PAUL GREEN: Just a quick one  
20 from Waters. Paul Green speaking.

21                   Have you done any speciation, chrom  
22 (III) versus chrom (VI), as part of your  
23 investigation yet, or is that planned?

24                   MS. DEBORAH FLEMMING: Deborah  
25 Flemming, North American Tungsten.



1                   No, we haven't. We're still in the  
2 very beginning investigation and waiting for a  
3 response from the lab prior to moving forward with  
4 the next step.

5                   THE FACILITATOR: Lindsey, for Board  
6 staff.

7                   Deborah, do you -- do you know or have  
8 some idea of when that might be complete? Not really  
9 before -- I'm just wondering if this is something we  
10 can sort of tie up in this process, possibly.

11                  MS. DEBORAH FLEMMING: Deborah  
12 Flemming, North American Tungsten.

13                  For the -- I think it's IR-4, if we  
14 can say that I will provide the response from the lab  
15 and further investigation regarding the ore types and  
16 metal properties for the June 25th date.

17                  THE FACILITATOR: Lindsey, for Board  
18 staff.

19                  Okay. I think we've got that as IR-4.

20

21 --- INFORMATION REQUEST NO. 4: NATCL to submit to  
22 the MVLWB by June 25, 2015,  
23 information regarding the chromium  
24 spike, including investigating ore

25

1 types, geochemical analyses, and mill  
2 processes

3

4 THE FACILITATOR: Anyone on the phone  
5 have any questions about chromium?

6 MS. CARRIE BRENEMAN (BY PHONE):

7 Carrie Breneman, Dehcho First Nations. No.

8 THE FACILITATOR: Okay. Lindsey, for  
9 Board staff.

10 We have still twenty (20) minutes  
11 before lunch. So let's talk about -- I think zinc  
12 was one (1) of the other parameters. And so  
13 Deborah's got a -- a graph up here to discuss, so  
14 I'll pass it over to Deborah.

15

16 (BRIEF PAUSE)

17

18 MS. DEBORAH FLEMMING: Deborah  
19 Flemming, North American Tungsten.

20 The total zinc, we did have an  
21 exceedance at S4-44 in February and March of 2013.  
22 This is prior to the discharge from the temporary  
23 water treatment plant or the permanent water  
24 treatment plant.

25

1                   Since then, we've had one (1) other  
2 item in October 2014 where the number has gone up,  
3 but not exceeded the water quality objective.

4                   At this point in time, we do not  
5 believe that was an impact from any discharge  
6 specifically from the mine, and do not -- and are not  
7 looking to change that water quality objective.

8

9                   (BRIEF PAUSE)

10

11                   THE FACILITATOR:   Lindsey, for Board  
12 staff.  Anyone have any follow-up questions on zinc?

13

14                   (BRIEF PAUSE)

15

16                   THE FACILITATOR:   Anyone on the  
17 phone?

18

19                   (BRIEF PAUSE)

20

21                   THE FACILITATOR:   It seems like no.  
22 So did anyone have any other questions about any  
23 other metals or any other parameters that came up  
24 during your preparation for the technical session?

25

1 (BRIEF PAUSE)

2

3 THE FACILITATOR: Anyone on the phone  
4 have questions about water quality objectives in --  
5 in general, other than the ones that we've discussed?

6 MS. CARRIE BRENEMAN (BY PHONE): No.

7

8 (BRIEF PAUSE)

9

10 THE FACILITATOR: Okay. So I think  
11 maybe what we'll do is -- because the next topic is -  
12 - is actually the AEMP, and I want to leave a little  
13 bit of time to talk about that. So I think what we  
14 should do is just break for lunch now and come back  
15 at 1:00. And we can move on with the agenda then.

16 All right, everyone, so we'll see you  
17 back here at one o'clock.

18

19 --- Upon recessing

20 --- Upon resuming

21

22 THE FACILITATOR: Lindsey, for Board  
23 staff. Coming back after lunch. I just wanted to  
24 make sure that we had everyone who was coming back in  
25 the room, and we almost do. So I think we'll start

1 right after lunch with the AEMP. And I don't think  
2 that Deborah was planning to -- oh, you have a few  
3 slides there, so I'll let Deborah start with those.

4

5 PRESENTATION BY NORTH AMERICAN TUNGSTEN AND QUESTIONS

6 - AEMP:

7 MS. DEBORAH FLEMMING: Deborah  
8 Flemming, North American Tungsten. I just wanted to  
9 give an update on the AEMP development status. We  
10 have been working with a consultant, RC BioSolutions,  
11 to develop the plan as per the guidelines.

12 And we have participated in and  
13 facilitated traditional knowledge collection  
14 workshops in both Fort Simpson and Nahanni Butte in  
15 the middle -- at the middle of May. We are waiting  
16 for a document from LKFN with respect to the  
17 information that they were going to tailor specific  
18 to the AEMP and provide that to us this week.

19 The AEMP draft 1 release is pending.  
20 The latest itinerary I sent out had that scheduled  
21 for June 22nd, so we are still working towards that.  
22 We will be looking to facilitate this process by  
23 using a comment table similar to that that the Water  
24 Board uses for getting topics back and information  
25

1 back from the different reviewers so that we can  
2 combine that into the AEMP that we're developing.

3                   One (1) of the questions that came up  
4 was this -- is this process external to the Water  
5 Board process or within. We had proposed it as  
6 external, but certainly we are open to discussion on  
7 that. We thought we would run it in a similar  
8 format, but outside of the Mackenzie Valley Land and  
9 Water Board process.

10                   The first wor -- or the second working  
11 group meeting is scheduled for July 10th in  
12 Yellowknife. We decided to make that a face-to-face  
13 meeting. We felt that if we had a room and a  
14 situation similar to this, that we could work through  
15 some of the topics and issues quicker and facilitate  
16 some more discussion. Just easier than being on a  
17 conference call. We'll do it in Yellowknife so that  
18 the majority of the regulators can be present, and  
19 others as -- as they can attend.

20                   THE FACILITATOR: Okay. Lindsey,  
21 Board staff. Does anyone have any questions about  
22 the AEMP process that Deborah has outlined, or any  
23 recommendations about the AEMP generally speaking?

24

25                   (BRIEF PAUSE)

1 THE FACILITATOR: Carrie, are you on  
2 the line?

3 MS. CARRIE BRENEMAN (BY PHONE): Yes,  
4 I'm on the line and we're -- we've been in  
5 communication with NATCL about the Aquatic Effects  
6 Monitoring Program, and we're comfortable with that  
7 process.

8 THE FACILITATOR: Okay. Lindsey, for  
9 Board staff. So it looks like we can wrap that topic  
10 up pretty quickly, unless -- oh, Nathen.

11 MR. NATHEN RICHEA: Thank you. It's  
12 -- excuse me, Nathen Richea, Water Resources ENR.  
13 Yes, this has been a topic of discussion for a while  
14 now and we have participated in the process.  
15 Obviously we're very interested in the development of  
16 the Aquatic Effects Monitoring Program.

17 And I think due to the nature of the  
18 previous amendments, we're comfortable with  
19 proceeding on a -- as a step -- separate standalone  
20 process. But with the renewal of the licence and the  
21 potential for a ten (10) year term, we think  
22 development of the program is important.

23 Moving forward, we had some discussion  
24 prior to lunch about water quality objectives and  
25 assessing conditions in -- in the Flat River. And

1 that's what the Monitoring Program is intended to  
2 also inform. So we are very interested in the  
3 development of that project -- or that program. So  
4 we will participate in the July 10th meeting, but we  
5 also think it's important for this -- important  
6 consideration for this renewal proceeding, so.

7 THE FACILITATOR: Lindsey, for Board  
8 staff. So just so I can clarify, you are supporting  
9 this sort of external development process followed by  
10 -- they have a submission date, like a formal  
11 submission to the Board, at the end of January, so --  
12 approximately. That's what it has in here.

13 So I'm just wondering, are you -- are  
14 you supportive of participating in the process that  
15 way, or would you prefer to see something more  
16 formalized with the Board for earlier drafts?

17 MR. NATHEN RICHEA: Thank you. It's  
18 Nathen Richea, Water Resources.

19 All I can say is I reiterate the --  
20 our point, that we're very interested in the program  
21 and the development of the program. We know there's  
22 an Environmental Effects Monitoring Program that's  
23 currently conducted by the site. And we -- we're  
24 aware of that and we do want to make the two (2)  
25



1 programs align, so we're not duplicating efforts or  
2 causing things to be too onerous on the Company.

3           With that being said, there is some  
4 information that we need to assess and -- and the  
5 impacts of the potential release of contaminants, the  
6 points where it's released, which is different than  
7 previous activities. On the Flat River is of  
8 importance to us.

9           And we did mention earlier today about  
10 the concern about bull trout. So we intend to ensure  
11 that the Monitoring Program is sensitive enough to  
12 assess what the potential impacts of the operation is  
13 on the -- on the Flat River and the aquatic species.

14           So getting to the question, I guess,  
15 back to us was are we comfortable with the process.  
16 I think we're comfortable with the process moving  
17 forward, but we do want to stress that, you know,  
18 there's been a series of amendments over the past few  
19 years. And we've been comfortable moving the AEMP as  
20 a separate project or process from those amendments.

21           But now with the renewal I think it's  
22 a bit of a different situation. And I don't want to  
23 -- I don't want to have a situation where we have a  
24 renewal and we don't have a plan for a series of  
25 years following the issuance of the renewal licence.

1                   So I guess what I'm saying is we want  
2 the process to proceed for the development of the  
3 Aquatic Effects Monitoring Program. And we want that  
4 done in as timely a manner as possible, given that  
5 there is a point source discharge now into Flat  
6 River. And, you know, we should be assessing what  
7 the effects of that are.

8                   MS. DEBORAH FLEMMING:     Deborah  
9 Flemming, North American Tungsten.

10                   Perhaps to work with Nathen --  
11 Nathen's concern, that a condition be in the new  
12 licence that the AEMP document be submitted for final  
13 approval within three (3) months of the issuance, or  
14 something along those lines.

15

16                   (BRIEF PAUSE)

17

18                   THE FACILITATOR:     Lindsey, for Board  
19 staff. Sorry, I just wanted to take a look at the  
20 work plan there where it's looking like the Board  
21 would conclude its portion of the process sort of  
22 late November, followed by a period for the Minister  
23 to sign off. So that would -- that would put  
24 actually the submission date even later than January  
25

1 of -- of 2016, just based on the -- based on the  
2 timelines, but...

3                   So I just had to think on that. I'm  
4 not sure how -- how set in stone this sort of work  
5 plan is here for you. You know, if -- if people are  
6 wanting to see it earlier and that -- for review in  
7 the sense of running a review process prior to the  
8 summer season of 2016, then it would be better to get  
9 it in at the end of January, as you have suggested in  
10 this work plan. Otherwise, with the three (3)  
11 months, within -- with -- from issuance it might  
12 actually be a bit later.

13                   In any case, does anyone else have any  
14 questions about the AEMP process? We don't have a  
15 document to talk about, so we can't really talk about  
16 specific details, but.

17                   Okay. I'll take that as we're ready  
18 to move on to talk about the ICRP. And, Deborah, do  
19 you have any slides for that or do you want to  
20 just...

21

22 PRESENTATION BY NORTH AMERICAN TUNGSTEN AND QUESTIONS

23 - ICRP:

24                   MS. DEBORAH FLEMMING: Deborah

25 Flemming, North American Tungsten.

1                   So we did submit a draft 1 of the ICRP  
2 with the water licence application. Again, we  
3 submitted a proposed schedule that we could run  
4 external to the process of -- of Mackenzie Valley or  
5 we are open to, of course, running that within.

6                   When we got into the development of  
7 this and -- and pulling it together, it's a  
8 substantial amount of work to compile the history on  
9 a mine that's fifty (50) or sixty (60) years old, all  
10 the stages, and -- and the progressive, and the  
11 different varying reclamation, and -- and the  
12 detailed data that we'd like to see in the ICRP.

13                   As we got into this we realized that  
14 initially we needed to compile the base document and  
15 then we would require additional time to move  
16 forward, to fill in those details, including the  
17 engineering and the -- and the detailed analysis that  
18 has been created. So as part of the submission there  
19 was a suggestion on the -- the aspects that we would  
20 like to review so that we can move forward through  
21 the document and get a -- a good, well-written piece  
22 at the end, so that each subsequent draft would be of  
23 increased detail, and filling in the varying aspects.

24                   So we would like some feedback on  
25 that.

1 THE FACILITATOR: Lindsey, Board  
2 staff. Does anyone in the room have some feedback  
3 for Deborah or questions on the process that they've  
4 laid -- laid out for the ICRP?

5 MS. CARRIE BRENEMAN (BY PHONE):  
6 Carrie Breneman, Dehcho First Nations. Deborah, I've  
7 reviewed the document and I've sent in comments  
8 internally to Deb Tee (phonetic) to review. But  
9 unfortunately -- I mean, I emailed you about this,  
10 but unfortunately, she's on -- she's had a lot of  
11 duty travel and she's away this week. So I'm  
12 optimistic that by the end of the week we can send  
13 you some comments on the draft. But until I've  
14 talked to Deb Tee and kind of gotten some guidance  
15 from DFN I can't really -- I can't really speak to it  
16 at this point.

17 The one (1) question I did have about  
18 the draft is that, like I kind of reviewed it from  
19 kind of like a background information standpoint, but  
20 I felt like there could have been maybe just a bit  
21 more clarity.

22 On -- in some of the documents you  
23 referenced previous studies and then you also  
24 reference work that's to be completed, specifically  
25 that geochemical risk assessment that came out of the

1 dry stack tailing application. And I think a section  
2 in there on previous studies that have been done and  
3 then studies that are to be completed would be  
4 helpful when reviewing the document.

5 MS. DEBORAH FLEMMING: Deborah  
6 Flemming, North American Tungsten. Thank you,  
7 Carrie, for that feedback. We'll look to add  
8 something along those lines.

9

10 (BRIEF PAUSE)

11

12 MR. NATHEN RICHEA: It's Nathen  
13 Richea, Water Resources.

14 Well, we're very interested in the  
15 development of a closure plan for North American  
16 Tungsten. From what I understand, there isn't an  
17 approved closure plan in place at this point in time.  
18 We would like to see further development of a closure  
19 plan. We understand it takes some time to develop  
20 these plans and usually they're -- you know, there  
21 typically are working groups established to help  
22 provide feedback into the goals, objective, and  
23 criteria for closure and reclamation planning.

24 Those are very intensive processes and  
25 it requires a lot of information in order to come up

1 with the appropriate closure options and criteria --  
2 measurement criteria for release. They take time to  
3 put together, so I totally understand, you know, the  
4 comments Deborah had made.

5                   But there are some people that will be  
6 participating in the review as part of the working  
7 group that have experience working on closure plans  
8 at other sites and in other areas that can provide  
9 input and feedback into the development of that plan.

10

11                   Just off the top of my head, writing  
12 down a few things that I'm aware of that we probably  
13 would need to discuss further would be, you know, the  
14 Flat River tailings themselves and whether they stay  
15 in place or whether they need to be reclaimed.

16                   The cover system for the dry stack  
17 tailings facilities and the existing tailings ponds,  
18 there were some discussion that we had during the  
19 amendment process about the cover systems and the  
20 performance of the system, whether a certain  
21 percentage of infiltration would be preferred versus  
22 more of an impermeable cover, and then some stab --  
23 stability aspects associated with that for those  
24 facilities. I think that work is still ongoing and  
25

1 it's important for closure planning and -- and  
2 developing cover systems.

3                   Another item that we identified too is  
4 the location of source material for closure material  
5 at closure. So there's a bunch of stuff that has to  
6 be sort of discussed further and -- and some may --  
7 some reclamation research, perhaps, that needs to be  
8 developed to help further discussions and information  
9 to make decisions about closure for the site.

10                   You know, it is -- it is a bit  
11 concerning that we're in a renewal and we don't  
12 really have an approved plan at this point. So  
13 that's it. We don't want to tie the two (2)  
14 processes together given, you know, some of the  
15 details and information that still needs to be  
16 gathered. But we do want to work with the Company to  
17 come up with a more detailed plan for closure and  
18 we're willing to participate in any sort of working  
19 group to develop that.

20                   That said, the plans can be interim  
21 and work their way in detail as reclamation research  
22 and -- and information comes in over time. So I -- I  
23 do think it would be good to have a plan in place for  
24 Board review and approval as soon as possible, I  
25



1 guess similar to my comments on the Aquatic Effects  
2 Monitoring Program.

3                   So in a nutshell, we're interested.  
4 We're -- we'd like to participate in the process of  
5 developing a closure plan, and we'd be interested in  
6 seeing that done as soon as possible.

7                   MS. DEBORAH FLEMMING:     Deborah  
8 Flemming, North American Tungsten.

9                   We note the comments from Nathen and  
10 agr -- agree that we do want to get that document  
11 into at least an interim submission as soon as  
12 possible. And the schedule we put forth, I -- I  
13 believe, was to have something, again, for the end of  
14 the year or early, very early in the -- 2016, as a  
15 document obviously still needing work in level of  
16 detail, because it will be an interim document.

17                   Just an update, we have been working  
18 on the cover system and additional modelling and --  
19 and such to help inform decisions regard that, as  
20 well as stability aspects associated with increased  
21 infiltration. The field work for source of material  
22 for cover is still scheduled to go on later this  
23 summer as I can get out into the field.

24                   The Flat River tails are on a coming  
25 slide. And obviously we understand the sources of

1 concern. What we'd like to do is use the geochemical  
2 risk assessment that is currently underway, as well  
3 as the load balance, to help as a primary source for  
4 informing the decision and the -- the options that  
5 we'll put -- we will put forth. Layered onto that,  
6 of course, the biological and ecological aspects.

7           One (1) thing that had been mentioned  
8 in previous comments about assessments around the  
9 Flat River tails was that short and long-term effects  
10 had not been duly considered. So we are looking at  
11 the short-term effects of leaving them or removing  
12 them, as well as the long-term effects. Flooding,  
13 additionally, was one (1) of the issues of  
14 consideration. And so those aspects we'd be looking  
15 to -- to put in.

16           I'm not expecting a decision or a  
17 final document before January 2016 at this point on  
18 that particular item. But following the load balance  
19 we should be in a substantially better position to  
20 move forward.

21           THE FACILITATOR: Lindsey, for Board  
22 staff. So, Deborah, can I just clarify? There's a  
23 couple of conditions in the licence right now that  
24 relate to qualitative and quantitative risk  
25 assessments for the Flat River.

1                   And are you suggesting that those be  
2 superceded by the integrated geochemical risk  
3 assessment and load balance?

4                   MS. DEBORAH FLEMMING:     Deborah  
5 Flemming, North American Tungsten.

6                   Yes, at this point in time that's what  
7 we would look to do, supercede with their geochemical  
8 risk assessment, but then per -- there would need to  
9 be a further assessment that included the biological  
10 and ecological aspects on top of that going forward.

11                  THE FACILITATOR:     Lindsey, for Board  
12 staff. So you would want to be doing that as a  
13 separate item, or through the closure and reclamation  
14 planning? I'm just trying to figure out where that  
15 information would be presented to reviewers.

16                  MS. DEBORAH FLEMMING:     Deborah  
17 Flemming, North American Tungsten.

18                  Ideally, it would be part of the  
19 research plans required within the ICRP.

20

21   (BRIEF PAUSE)

22

23                  THE FACILITATOR:     Lindsey, Board  
24 staff. Does anyone have any follow-up questions

25

1 about the Flat River tailings and the process going  
2 forward?

3

4 (BRIEF PAUSE)

5

6 THE FACILITATOR: Okay. We are  
7 really doing great here. Everyone looks sleepy after  
8 lunch. All right. Let's move on to the -- talking  
9 about the engagement plan. Deborah, did you have  
10 slides for that, or -- or Allan maybe.

11

12 PRESENTATION BY NORTH AMERICAN TUNGSTEN AND QUESTIONS  
13 - ENGAGEMENT PLAN:

14 MR. ALLAN KRASNICK: Allan Krasnick,  
15 North American Tungsten. I don't if I'm a general  
16 making comments or I'm making -- a private making  
17 general comments, but...

18 So we -- we have been working on the  
19 engagement plan for several months, and our latest  
20 draft kind of got delayed because of the events that  
21 have been going on with the Company.

22 We were in fact to meet with the -- to  
23 meet up in Fort Simpson and in Nahanni Butte the last  
24 week of May. It was a tentatively scheduled  
25 something and we had to cancel it because of this.

1 So as part of -- during the same time as the AEMP  
2 meeting here on July 10th, Deborah and I will be  
3 going to -- to the communities just before that and  
4 having a meeting in Nahanni Butte of our joint  
5 committee and working, hopefully, with Liid -- the  
6 Liidlii Kue on the outline of an IBA with them, and  
7 on the -- sort of some kind of scheduling for a --  
8 for an engagement plan with them.

9                   And we're hoping at the same time --  
10 we -- we haven't set anything up yet, but at the same  
11 time to meet with the Decho generally.

12                   MS. DEBORAH FLEMMING:   Deborah  
13 Flemming, North American Tungsten.

14                   In addition to that, in the draft it  
15 does cover off the working groups with the AEMP, as  
16 well as the ICRP and the plan to move forward with  
17 those working groups and get discussion and feedback  
18 from reviewers prior to submission dates on  
19 monitoring plans, and in particular, those two (2)  
20 items.

21

22                   (BRIEF PAUSE)

23

24                   THE FACILITATOR:   Okay. Lindsey, for  
25 Board staff. I'll just -- I'll open the floor to any

1 comments people want to make, but I just wanted to  
2 ask that people in their interventions make  
3 recommendations as to when a reasonable due date  
4 would be for the submission of an engagement plan,  
5 which is now a standard requirement of water  
6 licences.

7                   So if any -- does anyone have any  
8 questions about what Deborah and -- and Allan have  
9 outlined here, or about the engagement plan process  
10 in general? Anyone on the phone have questions?

11                   MS. CARRIE BRENEMAN (BY PHONE):  
12 Carrie Breneman, Dehcho First Nations. No, I don't  
13 have any questions.

14

15                   (BRIEF PAUSE)

16

17                   THE FACILITATOR: Okay. Lindsey,  
18 Board staff.

19                   So we can open the floor here for a  
20 bit more of a general discussion. There were some  
21 comments related to management plans and general  
22 operational issues. Some of those comments came from  
23 Environment Canada, so I'm not sure if Lisa is back  
24 this afternoon.

25

1 MR. REG EJECKAM (BY PHONE): Yes,  
2 it's Reg --

3 THE FACILITATOR: Or Reg.

4 MR. REG EJECKAM (BY PHONE): -- we  
5 are back on -- on line.

6 THE FACILITATOR: Okay. Thanks, Reg.

7 MR. REG EJECKAM (BY PHONE): Okay.

8 THE FACILITATOR: So did -- Reg, did  
9 you have any follow-up questions to the review  
10 comments you made, given -- given Cantung's  
11 responses?

12 MR. REG EJECKAM (BY PHONE): Yeah.  
13 Reg Ejeckam, Environment Canada. For comment number  
14 two (2) where there was a response that there's no  
15 collection pond in this location, but it did indicate  
16 that there's some instal -- installation at the two  
17 (2) which is supposed to collect -- seepage -- small  
18 seepage collection at the northwest corner of the  
19 TP4.

20 So I'm wondering, How -- where that --  
21 how do they collect the seepage that comes out of two  
22 (2)? What is the -- the reference to the  
23 installation of the drainage system to collect  
24 seepage there? In their response they did say that  
25

1 there's no collection for there, so how -- how is the  
2 seepage collected and dealt with?

3 MS. DEBORAH FLEMMING: Deborah  
4 Flemming, North American Tungsten. Just referring to  
5 the item, I believe you're speaking about the seepage  
6 collection at the toe or the internal toe of the dam  
7 structure of tailings pond 4.

8 This is not a collection system, but  
9 put in place so that there would not be seepage  
10 within. So since it's been placed there, there has  
11 been no seepage. There were quite a number of photos  
12 attached for you to see when we talked about seepage.  
13 It was the standing water that they were trying to  
14 eliminate during construction so that the stability  
15 of the dam would be appropriate.

16 So this is not a collection system for  
17 seepage of tailings water. This was something put in  
18 place for the structural component of the dam.

19 MR. REG EJECKAM (BY PHONE): Reg --  
20 Reg Ejeckam, Environment Canada. So the -- the  
21 reference to just precipitation happening in that  
22 area, that -- that means that the precipitation kind  
23 of disappeared? There's no filtration of that  
24 seepage that comes in through precipitation?

25



1 MS. DEBORAH FLEMMING: Deborah  
2 Flemming, North American Tungsten. Okay, now I --  
3 you're -- you're speaking to the waste rock? And  
4 there is ditching along the toe of it, but the  
5 precipitation which occurs and the coarseness of the  
6 material, we don't actually see water daylighting in  
7 that ditch line. So there's no collection of water  
8 because we don't see it. It goes to ground.

9 MR. REG EJECKAM (BY PHONE): Reg  
10 Ejeckam. Sorry, I'm mixing the two (2). But that  
11 relief we're talking about, that's the -- the waste  
12 rock now, because of the large size of the waste  
13 rock, you say close to the ground which means it goes  
14 into the groundwater, or -- or where does it go? You  
15 don't say. You don't have any collection, or the --  
16 the precipitation is so little that it doesn't show  
17 up? Is that the case?

18 MS. DEBORAH FLEMMING: Deborah  
19 Flemming, North American Tungsten.

20 Yes, that's the case. It is near  
21 Sardine Creek and we do monitor Sardine Creek  
22 regularly. And there's been no evidence of influence  
23 there. In addition the contact time for water on a  
24 granite or highly carbonated material, which is what  
25 the waste rock is, is such that there are -- have

1 been no issues seen in Sardine Creek regarding metals  
2 or -- or acid generation.

3 MR. REG EJECKAM (BY PHONE): All  
4 right. Reg Ejeckam, Environment Canada.

5 Again, the -- the monitoring in the  
6 Sardine Creek, I think that the comment we provided  
7 was that the -- the attributes of monitoring the  
8 drainage ditch before it reaches the Sardine Creek.  
9 And you have -- you -- the implication is that there  
10 is no evidence that there's any kind of contamination  
11 in Sardine Creek so there's no need to do monitoring  
12 the -- the drainage ditch.

13 But if there's any issues by the time  
14 it is 750 metres is quite a long way that you  
15 probably -- a precipitate or disappear somehow. But  
16 monitoring in the Sardine Creek I think is probably a  
17 little far down -- far down compared to monitoring  
18 the ditch before it gets there so that if there's any  
19 issues it will be detected ahead of time, rather than  
20 waiting for it to get into the Sardine Creek.

21 MS. DEBORAH FLEMMING: Deborah  
22 Flemming, North American Tungsten.

23 As I indicated we do not see water  
24 present in that ditch line so we are unable to  
25 collect water and sample water that we do not see

1 daylighting there. Again, this is material that is  
2 tested and it is tested and comes back as non-PAG.

3 MR. REG EJECKAM (BY PHONE): Reg  
4 Ejeckam, Environment Canada.

5 Yeah, I -- I think I hear what you're  
6 saying, but I'm not quite -- I don't think we're  
7 quite satisfied that -- making those assumptions.  
8 Because as you know although it is classified as a  
9 non-PAG, but there's usually a lag time and you  
10 really never know what happens especially when you  
11 say there has been very little contact time with the  
12 precipitation. But, you know, it's -- my feeling --  
13 our feeling is it's probably, you know, better to  
14 check where it's collected, the source, where you  
15 should be able to control it if there's any issues.  
16 But once it gets into the Sardine Creek, but you may  
17 not have any kind of control at that point.

18 MS. DEBORAH FLEMMING: Deborah  
19 Flemming, North American Tungsten. As I said we  
20 actually test this for whether or not it is  
21 potentially acid-generating. And the waste rock pile  
22 is tested and returns back as non-potentially acid-  
23 generating. This is the granites. These are the  
24 things that we test and utilize in our construction  
25 of our dams and -- and meets the requirements for

1 construction. The lag time is irrelevant when we're  
2 talking about a non-PAG waste rock.

3 MR. REG EJECKAM (BY PHONE): Reg  
4 Ejeckam, Environment Canada. Okay. Thank you.

5

6 (BRIEF PAUSE)

7

8 THE FACILITATOR: Lindsey, for Board  
9 staff. Okay.

10 So does anyone have any other  
11 questions? Anything that comes up now to mind  
12 especially since the amendment has been issued with  
13 dry stack. If you have any questions related to the  
14 conditions in the -- in the latest amendment and how  
15 that will change or not change in the renewal process  
16 now would be a good time to bring them up.

17 MR. NATHEN RICHEA: It's Nathen  
18 Richea, Water Resources, ENR. I guess I'm just  
19 trying to get a sense of the schedule for the  
20 construction of the tailings storage facility 4B and  
21 tailings storage facility 7. I think they're  
22 scheduled for the summer.

23 Is that still the plan?

24 MS. DEBORAH FLEMMING: Deborah  
25 Flemming, North American Tungsten. The schedule was

1 to submit design and such ninety (90) days prior to  
2 and the construction occurring in September or early  
3 October for 4b. And then in the summer --  
4 spring/summer of 2016 for TSF7.

5 At this point, that is still the plan.  
6 Of course, with the current status we must go through  
7 the monitor and present certain cases and information  
8 to move forward.

9 MR. NATHEN RICHEA: Thank you. It's  
10 Nathen Richea, Water Resources, ENR.

11 With the removal of the solids from  
12 tailings storage facilities 5, I guess, is there a  
13 significant -- I guess you have that one (1) figure  
14 that showed -- is there enough space in there to give  
15 you the time to develop 4b, I guess, which is -- I  
16 think from what you said, scheduled for September  
17 pending any other decisions?

18 MS. DEBORAH FLEMMING: Deborah  
19 Flemming, North American Tungsten.

20 Yes. The graph we showed with TP5  
21 does have the consideration in that we will -- for  
22 the construction to be out at September/October, and  
23 was one of the initial instigating factors for the  
24 solids removal in TP5 to provide the capacity  
25 required.

1 MR. NATHEN RICHEA: Thank you. It's  
2 Nathen Richea, Water Resources.

3 I think you mentioned previous -- when  
4 we had this discussion about sixty-two (62) -- a thou  
5 -- 100,000 cubic metres of solids will be removed  
6 from tailings pond 5 and stored in tailings storage  
7 facility 3.

8 Is there additional space on top of  
9 tailings storage facility 3 for additional solids, or  
10 is that pretty much within the stability of -- I know  
11 it's above the existing structure, or I think you  
12 mentioned, and that you had some assessments done by  
13 an engineer to pinpoint the locations where that  
14 material might be stored?

15 Would the 100,000 cubic metres exhaust  
16 that avenue, or -- or is there additional area there  
17 that you might be able to utilize?

18 MS. DEBORAH FLEMMING: Deborah  
19 Flemming, North American Tungsten.

20 I believe there may be additional  
21 area. I would have to refer back to the survey that  
22 we conducted initially to give a solid number on  
23 that.

24

25 (BRIEF PAUSE)

1 MR. NATHEN RICHEA: It's Nathen  
2 Richea, Water Resources. Just a question then for  
3 the Board.

4 Do -- is the survey information, or  
5 anything like that, available on the registry? I  
6 mean -- I don't -- I don't know how I'm going to ask  
7 this one but, Is -- is it something that should be  
8 required as part of the submission, or anything like  
9 that, for -- for the Board being that additional  
10 tailings are stored above the structure right now for  
11 tailings pond 3?

12 It would be important from our  
13 understanding of what's being done.

14 THE FACILITATOR: Lindsey, for Board  
15 staff. I'm not sure what you mean by -- by a survey.  
16 Can you -- can you explain what you're looking for?

17 MR. NATHEN RICHEA: Sure. It's  
18 Nathen Richea.

19 So the discussion we had this morning  
20 was some of the solids were being removed from  
21 tailings storage facility 5 to free up capacity which  
22 includes produce -- you know, production water and --  
23 and such, so that Canadian Zinc had the ability to  
24 continue operating during this interim time until the  
25 additional storage facilities are constructed.

1                   From what I understood, and Deborah  
2 can correct me, is they had a survey done by an  
3 engineer of tailing -- for tailings pond 3 which has  
4 been closed, or tailings haven't been put in tailings  
5 pond 3 for some time now, that has suggested that the  
6 solids could safely be stored above the existing  
7 level of tailings storage pond 3, but that these  
8 solids are actually above -- I don't know what to  
9 call it. Maybe the berm area.

10                   I'll let Deborah speak to it, but what  
11 I'm concerned about, I want to sort of understand  
12 exactly where the tailings are, and how high they are  
13 in tailings pond 3. And if it is being placed in a  
14 certain area, where is that area, and how is this all  
15 happening. And it might be in the survey report, so  
16 I'm just interested in seeing that.

17                   MS. DEBORAH FLEMMING: Deborah  
18 Flemming, North -- North American Tungsten.

19                   What I can provide is the initial --  
20 the plan that we put forward, and -- which shows --  
21 which indicates the area, and I can provide a volume  
22 for you and if you want to call that IR-5. So we'll  
23 provide a capacity volume and the area map for the  
24 storage of the dry tailings on top of TP3 which is  
25 away from the berm, a crest -- approximately a crest



1 and a half height at 60 to 70 metres away from the  
2 berm edge crest.

3 THE FACILITATOR: Lindsey, for Board  
4 staff. Also -- I -- I mean, I would expect that this  
5 type of information would also be reported in the  
6 annual -- I mean, the volume would be reported in the  
7 SNP, but work that you've completed of that nature  
8 would be summarized at least in the -- in the annual  
9 report. So there should be some information there.  
10 If there's something specifically that you're looking  
11 for in that annual report we could change -- you  
12 know, change some of the annual report conditions to  
13 capture that a little bit better maybe.

14 MR. NATHEN RICHEA: Thank you. It's  
15 Nathen Richea.

16 Yeah, I haven't thought about it that  
17 further -- that far in ahead. This is the first that  
18 I was aware of that this morning and really all I'm  
19 looking for is what considerations we're taking into  
20 account if this is -- has some bearing on  
21 geotechnical stability of TP3. Hence, the setback  
22 from the crest which, you know, as an engineering  
23 requirement I understand that. But I just want to  
24 know sort of how that was assessed and what volume is  
25 there. So it's not just about how much material has

1 been put there. It's what has been considered in  
2 assessing the -- the location and how that material  
3 may be stable in the long term.

4 THE FACILITATOR: Yeah, Lindsey, for  
5 -- and I -- Lindsey, for Board staff.

6 And I think I understand that that's  
7 what Deborah is committing to provide is that initial  
8 ath -- assessment of how and why that approach was  
9 possible geotechnically and then in terms of once  
10 that work is actually completed it would be reported  
11 on I think within the annual report. So you would  
12 have a better idea of what's there once it's done.

13 Jen, are you okay with that IR?

14 MS. JEN POTTEN: Hi. Jen, for the  
15 Board. So I'm just going to read what I think the IR  
16 should say and then maybe you guys could add to it or  
17 correct it if -- if that works. So to provide a map  
18 and a volume of the capacity remaining in the top of  
19 TP3.

20 Is that specific enough or you want  
21 some more information? Because I think Lindsey just  
22 clarified, Nathen, something for you about the  
23 geotechnical information. So did you want to add to  
24 that?

25

1 (BRIEF PAUSE)

2

3 MR. NATHEN RICHEA: It's Nathen  
4 Richea, Water Resources.

5 Yeah, I -- I guess what I'm trying to  
6 -- if there's a survey available that had some  
7 considerations for where the location would be and --  
8 and how that decision was made. That's what I'm  
9 looking for. So I'm not sure if the IR actually  
10 captures it from that perspective, but Deborah might  
11 know because she's probably read the survey and  
12 probably has the information about what's in there.  
13 So maybe she could speak to it.

14 MS. DEBORAH FLEMMING: Deborah  
15 Flemming, North American Tungsten.

16 Most of the information we have was  
17 provided to the Board in the initial presentation of  
18 this is our excavation plan and -- and such. The  
19 primary item as far as you're talking the  
20 geotechnical issues is -- I called my engineer of  
21 record and I said, This is what we want to do. Can  
22 you give us some guidelines and -- and tell us how we  
23 can achieve this?

24 And that the basis of it is because it  
25 is dry and can support the weight of the vehicles, et

1 cetera. A typical geotechnical assessment of not  
2 loading a crest on a dam structure, so not putting  
3 that extra load, is to stay one and a half (1 1/2)  
4 crest heights away from the edge. We drew up and  
5 sent him the plans and he did a review and said that  
6 he felt that he was comfortable with us doing it in  
7 that manner. I will review what we presented to the  
8 Board and add to that if I have additional  
9 information. And I will also provide a volume of  
10 what the capacity is in that area for you.

11

12 --- INFORMATION REQUEST NO. 5: NATCL to submit to  
13 the MVLWB by June 25, 2015,  
14 information about the capacity  
15 remaining for tailings in TP3,  
16 including a map, placement locations  
17 and rationale, and estimated volumes  
18 of tailings to be placed

19

20 THE FACILITATOR: Lindsey, for Board  
21 staff. Does anyone on the phone have any questions?

22 MS. CARRIE BRENEMAN (BY PHONE):

23 Carrie Breneman, Dehcho First Nations.

24 No, I don't have any questions.

25

1 THE FACILITATOR: Okay. I'm just  
2 going to pass the mic to Jen, here.

3 MS. JEN POTTEN: Hi, this is Jen,  
4 from the Board staff.

5 I just had a question about the  
6 timing, and it's sort of piggybacking on the previous  
7 question about five (5) minutes ago in terms of  
8 scheduling for the summer.

9 So there's this discussion about doing  
10 some of the construction of the dry stack facilities,  
11 and how the designs would be required ninety (90)  
12 days in advance of that. And you guys are looking to  
13 do that construction sort of this fall,  
14 September/October, and so we'd be looking for the  
15 design drawings sort of June/July.

16 And I was just wondering how that  
17 connected -- or what the current sort of thought is,  
18 given the financial climate about the town site  
19 removal now that you guys have been issued your dry  
20 stack amended licence so that modification that has  
21 been applied for is no longer required, because  
22 you're able to remove the town site.

23 And just in terms of timing -- I mean,  
24 obviously, the town site needs to be removed first  
25

1 before you do that construction, so I was just  
2 wondering if you could speak to that, please?

3 MS. DEBORAH FLEMMING: Deborah  
4 Flemming, North American Tungsten.

5 The town site is for the second dry  
6 stack, the TSF7, and -- which still with the  
7 scheduling is early summer. It does allow us some  
8 flexibility in proceeding with reclamation this  
9 summer, which we can do internally with site  
10 personnel.

11 And so we will proceed as we can with  
12 that. The remainder of it will be done for seven (7)  
13 in the spring of 2016, and -- and such. So aspects  
14 of that should continue, but is not required  
15 specifically for four (4) at this -- it's actually  
16 for seven (7).

17

18 (BRIEF PAUSE)

19

20 THE FACILITATOR: Okay. So Lindsey,  
21 for the Board.

22 So this looks like we're ready for --  
23 time for any final questions. This is your last  
24 chance -- chance before you write your intervention.  
25

1 (BRIEF PAUSE)

2

3 THE FACILITATOR: Nothing burning?

4 Uh-oh. Jen -- Jen looks like she might have

5 something burning.

6 MS. JEN POTTEN: Jen, for the Board.

7 We were just asking about the

8 engagement plan, and I think there was a commitment

9 made to have that submitted today, but I maybe I

10 missed the part about that when we were -- you guys

11 were talking about that, sorry.

12 So could you just maybe provide an

13 update on that? Thanks.

14 MS. DEBORAH FLEMMING: Deborah

15 Flemming, North American Tungsten.

16 It was our intent to submit today.

17 However, with the current goings on at a corporate

18 level, and Allan is my primary writer for that

19 particular document, it has been delayed. And I

20 would anticipate that we'd need another month and

21 stuff to -- to move through the process that he's

22 currently engaged in, and that we are getting much

23 closer to that.

24

25

1                   But I do need to take into  
2 consideration how busy he is at the corporate level  
3 at this point.

4

5                                   (BRIEF PAUSE)

6

7                   THE FACILITATOR:   Okay.  So this is  
8 Lindsey, for Board staff.

9                   So I -- I just want to finish off with  
10 a few things, and one is reading out the Information  
11 Requests, just to give a last chance to give Jen some  
12 help, but she's just asked for a little five (5)  
13 minute break before we do that.

14                   So if we could just adjourn for five  
15 (5) minutes, and then we'll read out the IRs and just  
16 go over the next steps, and then we'll be out of  
17 here.  So it is five (5) to 2:00 now, so at two  
18 o'clock, we will go over the IRs and finish up.

19

20 --- Upon recessing

21 --- Upon resuming

22

23                   MS. JEN POTTEN:   ...staff.  The -- so  
24 there's a total of five (5) IRs.  I'm just going to  
25 start off with the first one, and it's about



1 fluoride. So the GNWT/ENR is to submit to the MVLWB  
2 by June 25th, 2015, the Macdonald and Sinclair paper.

3 IR number 2 is nit -- about nitrogen  
4 compounds. So NATCL is to submit to the MVLWB by  
5 June 25th, 2015, two (2) items. There's graphs of  
6 nitrate and nitrite at station 4-6 prior to when the  
7 sewage treatment plant effluent was discharged to  
8 tailings pond 4, as well as graphs of the nitrite and  
9 surface water.

10 IR number 3 is about aluminum. NATCL  
11 to submit to the MVLWB by July 2nd, 2015, a trend  
12 analysis of the total aluminum data in the effluent.

13

14 (BRIEF PAUSE)

15

16 THE FACILITATOR: This is Lindsey,  
17 for Board staff.

18 I'm just wondering if maybe we should  
19 clarify the specific stations that we're looking for,  
20 like four forty-three (443) and four twenty-seven  
21 (427) to -- yeah. Maybe let's just clarify to put --  
22 say those two (2) specific stations. No, it's four  
23 twenty-seven (427), too. Is that right, Deborah? Or  
24 four (4) -- at the culvert? Okay. I know. I can't  
25 remember which ones. We'll have to -- I'll look it

1 up and you can go on to number 4, that -- that's  
2 fine.

3

4

(BRIEF PAUSE)

5

6

THE FACILITATOR: Lindsey, for the  
7 Board.

8

Okay. We're just trying to discover  
9 here -- discuss here whether there should also be  
10 trend analysis of the -- the influent to the -- to  
11 the treatment plant, just so we can see if there's  
12 any comparison. But Deborah has mentioned that that  
13 -- that there may be some issues with that. But I  
14 think we'll include it in the trend analysis, and if  
15 there's any issue, you can just explain it along with  
16 providing the trend analysis. So that's four six  
17 (46), right? Yeah. Okay. So it would be those  
18 three (3) stations, and I'll check those for you in a  
19 second, Jen, so you can go on to number 4.

20

MS. JEN POTTEN: So Jen, for Board  
21 staff here.

22

I just need some help a little bit  
23 with number 4. It was about chromium and it was  
24 about some information about the geochemical analysis

25

1 of -- of waste rock or ore, information coming from  
2 the lab.

3 And I was just wondering if you could  
4 help clarify that.

5 MS. DEBORAH FLEMMING: Deborah  
6 Flemming, North American Tungsten.

7 I believe that is that I would provide  
8 as much information as I could as to where the spike  
9 on chromium was coming from, including investigating  
10 ore types and mill process.

11

12 (BRIEF PAUSE)

13

14 MS. JEN POTTEN: Thanks. Great.  
15 Jen, for Board staff.

16 And IR number 5 is about tailings pond  
17 3 capacity, so NATCL to submit to the MVLWB by June  
18 25th, 2015, information about the capacity remaining  
19 for tailings in tailings pond 3, including a map,  
20 placement locations and rationale, and estimated  
21 volumes of tailings to be placed.

22 So in terms of the IRs, I'm hoping to  
23 send that out today in a PDF to the distribution list  
24 so everyone will get to see that. And that's really  
25 about it for me. Thanks.

1 THE FACILITATOR: Okay. Lindsey, for  
2 Board staff.

3 So just to wrap up, as we talked  
4 about, most of those IRs are due on the 25th, the --  
5 with the exception of the one that's due on July 2nd.  
6 Pre-hearing conference is coming up on July 7th, and  
7 written interventions are due on July 14th. So we'll  
8 just -- I'm not going to go through all of the rest  
9 of the dates like I did at the beginning, but just  
10 the -- the next steps.

11 So I think unless anyone has any final  
12 comments, we are done here for the day. Thanks for  
13 coming out, everyone.

14 MR. REG EJECKAM (BY PHONE): Thank  
15 you.

16  
17 --- Upon adjourning

18  
19 Certified correct

20

21

22

23 \_\_\_\_\_

24 Wendy Woodworth, Ms.

25

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