



MACKENZIE VALLEY ENVIRONMENTAL  
IMPACT REVIEW BOARD

THOR LAKE RARE EARTH ELEMENT PROJECT

AVALON RARE METALS INC.

EA1011-001

TECHNICAL SESSION

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Facilitator

Shannon Hayden

HELD AT:

Tree of Peace

Yellowknife, NWT

August 15, 2012

Day 4 of 4

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21  
22  
23  
24  
25

1	TABLE OF CONTENTS	
2		Page No.
3	List of Commitments	7
4	List of Undertakings	8
5	Opening Comments	9
6		
7		
8	Presentation re Air emissions - both sites	13
9	Question Period	17
10		
11	Socio-economic issues	50
12	Question Period	51
13		
14	Archaeological and heritage resources	
15	and other issues	64
16	Question Period	69
17		
18	Review of tasks for developer or parties	77
19		
20		
21	Certificate of Transcript	86
22		
23		
24		
25		

1	LIST OF COMMITMENTS		
2	NO.	DESCRIPTION	PAGE NO.
3	9	Avalon commits to consulting with	
4		Environment and the GNWT to develop	
5		and implement an incineration	
6		management plan that incorporates	
7		information in the Environment	
8		Canada technical document on batch	
9		waste incineration management	22
10	10	Avalon commits to developing an	
11		air quality monitoring and management	
12		plan in consultation with ENR and	
13		Environment Canada, including, but	
14		not limited to, stack testing	
15		and SO2 and TSP monitoring	46
16	11	Avalon commits to continuous	
17		monitoring of sulphur dioxide for	
18		one (1) year within the fence line	
19		at the Thor Lake mine site and	
20		hydrometallurgical plant site	47
21			
22			
23			
24			
25			

1	LIST OF UNDERTAKINGS		
2	NO.	DESCRIPTION	PAGE NO.
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
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1 --- Upon commencing

2

3 THE FACILITATOR MERCREDI: Okay.

4 Welcome back to the technical session for Avalon --

5 Avalon's Thor Lake rare earth element project. Thank  
6 you, everyone, for participating today.

7 Today's -- on the agenda for today will  
8 be air emissions up front; socioeconomic issues;  
9 culture, language, way of life; training and  
10 employment procurement; archaeological and heritage  
11 resources; and other issues.

12 We will do a quick review of homework,  
13 and I think the only outstanding item was homework  
14 number 14, which was Avalon to forward the  
15 presentation that they gave yesterday to the Review  
16 Board. They did. It is posted and available on the  
17 website, so that homework item is complete. Thank you  
18 to Avalon for -- for expediting that.

19 So, again, for anybody that wasn't here  
20 previous to today, if you're speaking into the mic,  
21 it's name and organization, please. Please speak  
22 clearly into the mic, but not too loud. We will do a  
23 roundtable of who is in the room and on the  
24 teleconference line.

25 There is a sign-in sheet at the back.

1 If you haven't already signed in, it's on the -- the  
2 table that you passed just as you came in.

3 It is -- again, if -- if there are any  
4 resolutions -- or, sorry, if there are any issues that  
5 can be resolved through sidebar discussions, please --  
6 or if they're not resolved, please bring that back on  
7 the record to indicate to the Review Board that they  
8 do or do not have to look at the issue any further.

9 As I said, today is about air and  
10 socioeconomic issues, and, time permitting, any other  
11 questions for the developer, but we will stick to the  
12 agenda as closely as we can. And, again, should there  
13 be any disagreements, this is a place to at least  
14 state positions, and we do ask that when those  
15 positions are stated for the record, that it is --  
16 respect is -- is at the -- the front of your mind when  
17 you're speaking. Just again, we are here to -- to  
18 collect evidence for the Board.

19 To my right is my colleague, Shannon  
20 Hayden. She will be facilitating for most of today,  
21 and make her job easy, I guess.

22 With that, I'll turn the mic over to --  
23 to Shannon.

24 Actually, we'll do a roundtable  
25 starting with Shannon. My name is Paul Mercredi with

1 the Review Board.

2 THE FACILITATOR HAYDEN: And I'm

3 Shannon Hayden with the Review Board.

4 MR. SIMON TOOGOOD: Simon Toogood with

5 the Review Board.

6 MS. SARAH-LACEY MCMILLAN: Sarah-Lacey

7 McMillan with Environment Canada.

8 MS. AILEEN STEVENS: Aileen Stevens

9 with ENR.

10 MR. ALBERT BOURQUE: Albert Bourque

11 with ENR.

12 MS. KELLY CUMMING: Kelly Cumming with

13 Avalon.

14 MR. MARK WISEMAN: Mark Wiseman,

15 Avalon.

16 MR. DAVID SWISHER: David Swisher with

17 Avalon.

18 MS. KATHY PRESTON: Kathy Preston,

19 RWDI, working for Avalon.

20 MS. CAILIN MAKIN: Cailin Makin with

21 the Review Board.

22 MR. TODD SLACK: Todd Slack, YKDFN.

23 MS. SHANNON GAULT: Shannon Gault,

24 YKDFN.

25 MS. STEPHANIE POOLE: Stephanie Poole,

1 NWT Treaty 8 Tribal Corporation, Akaitcho IMA office.

2 MS. BRITTANY SHUWERA: Brittany

3 Shuwera, ITI GNWT.

4 MS. AMY LIZOTTE: Amy Lizotte, GNWT

5 ITI.

6 MR. RUSSELL TEED: Russell Teed, GNWT,

7 Minerals, Oil, and Gas.

8 MR. GAVIN MORE: Gavin More, GNWT.

9 MR. LIONEL MARCINKOSKI: Lionel

10 Marcinkoski, Aboriginal and Northern Affairs, AANDC.

11 MS. STACEY MENZIES: Stacey Menzies,

12 Review Board.

13 THE FACILITATOR MERCREDI: Thanks,

14 Stacey. And one (1) -- one (1) thing, just kind of a

15 logistical item. Please before you finish speaking or

16 please do not turn the mic off prematurely. As it --

17 it sounds as though for a couple of exchanges people

18 were turning off their mics a little too quickly. So

19 just finish speaking, pause, turn off the mic like

20 this.

21 THE FACILITATOR HAYDEN: Okay. So

22 good morning. Happy Friday. I'm going to send --

23 we're doing air emissions this morning to start for

24 both sites, the mine site, as well as the

25 hydrometallurgical site.

1                   And maybe if -- Avalon, I'm not sure if  
2   you wanted to have some introductory comments before  
3   we open the floor?

4                   THE FACILITATOR MERCREDI:   And going  
5   to the conference line I believe we have one (1)  
6   person.  If they could identify themselves for the  
7   record.

8                   MS. VICTORIA ST. JOHN:   Victoria from  
9   KFN.

10                  THE FACILITATOR MERCREDI:   Hi,  
11   Victoria.  Thank you.

12                  MS. VICTORIA ST. JOHN:   Okay.

13

14   PRESENTATION RE AIR EMISSIONS - BOTH SITES

15                  MR. DAVID SWISHER:   David Swisher with  
16   Avalon.  We've got just a few primer slides to go  
17   through regarding air quality.  And I'll let my  
18   colleague here from RWDI, Kathy, proceed.  Thank you.

19                  MS. KATHY PRESTON:   Kathy Preston with  
20   RWDI.  So this is a brief summary of what was done for  
21   the air quality assessment and overall the  
22   contaminants that were assessed are the ones for which  
23   there are standards in the Northwest Territories.  So  
24   nitrogen dioxide, sulphur dioxide, carbon monoxide,  
25   total suspended particulate, plat -- particulate

1 matter with diameter less than 2.5 microns, which is  
2 also known as (PM2.5), and also dust fall. There  
3 aren't standards for dust fall in the NWT, so we used  
4 -- we compared to objectives in BC, Alberta and  
5 Ontario.

6                   So the assessment for air quality  
7 consisted of estimating emissions and then predicting  
8 ground level concentrations using -- we had separate  
9 study areas for the Thor Lake site and the  
10 hydrometallurgical site because they're quite distant  
11 from each other. So we used two (2) 20 kilometre x 20  
12 kilometre study areas for them. And because there  
13 aren't any guidelines for doing dispersion modelling  
14 in the Northwest Territories, we used the BC Air  
15 Quality Model Guidelines. And we also assessed  
16 greenhouse gas emissions and we did that by estimating  
17 the emissions.

18                   So the sources that were included in  
19 the modelling for the Thor Lake mine site. So what we  
20 did is we -- we reviewed all the different types of  
21 sources that there were and then based on professional  
22 judgment made a decision as to whether the sources  
23 would have a major, moderate or minor effect on  
24 ambient air quality. So it wasn't just dependent on  
25 the emissions but actually they are based on our

1 previous experience what the effect might be, and  
2 certainly the largest sources were the -- the  
3 ventilation raises.

4                   And, essentially, because this is an  
5 underground mine, any emissions that occur within the  
6 mine itself will only be released to ambient air  
7 through either the mine portal and there's a second  
8 ventilation raise. And so there we applied health  
9 guidelines and then -- so we -- we assumed the worst  
10 case; that they'd just be at the occupational health  
11 guidelines within the mines and that would be the  
12 concentration that is emitted from the ventilation  
13 raises.

14                   The other major sources would be the  
15 mine air heater. There's six (6) diesel generators  
16 and they proved to be the largest sources of nitrogen  
17 oxides, carbon monoxide and PM2.5. And then there's  
18 very few -- there's just two (2) transfer and handling  
19 points above ground and the transfer and handling  
20 points and the ventilation raises, it was sort of  
21 50/50 as to which was the largest source of TSP.

22                   And then at the hydrometallurgical  
23 plant, the largest source of emissions that -- with  
24 sulphuric acid plant. And then we looked at emissions  
25 of SO2. And then in response to some requests, we

1 also estimated vehicle emissions and road dust.

2 For the preliminary modelling that was  
3 done for the DAR, no exceedances were predicted, but  
4 we -- as I said, we used the BC model guidelines, for  
5 which you do not include receptors. So you don't  
6 predict concentrations inside the fence line.

7 And that's standard prac -- practice in  
8 all of the provinces where I have experience doing  
9 dispersion modelling, so BC, Alberta, and Ontario. It  
10 would also be true in Saskatchewan.

11 However, it was requested that we  
12 remodel, including receptors inside the fence line.  
13 And also we wou -- it was requested that we remodel  
14 with the generators, assuming they were operating at a  
15 hundred percent load not at a reduced load.

16 When we did that, we did predict some  
17 exceedances, but only inside the fence line. And so  
18 we predicted exceedances of one (1) hour SO2 up to 1  
19 percent of the time, twenty-four (24) hour SO2 up to 3  
20 percent of the time, and twenty-four (24) hour TSP up  
21 to 17 percent of the time. And then at the  
22 hydrometallurgical plant, we did predict exceedances  
23 of one (1) hour SO2 up to .5 percent of the time.  
24 But, again, that was just inside the fence line.

25 And what we show, we also present in



1 both the DAR and our responses to those requests, the  
2 spatial distribution. And it clearly shows that  
3 predicted concentrations decreased rapidly with  
4 distance from the site, so.

5                   The reason why receptors inside the  
6 fence line are excluded in other provinces is because  
7 it's occupational health standards that are -- are  
8 used inside the fence line. And they are much greater  
9 concentrations than the ambient air quality  
10 objectives, which in most jurisdictions have been put  
11 forward by governments to be protective of human  
12 health and the environment, but -- but outside a -- an  
13 industrial facility.

14

15 Question Period

16                   THE FACILITATOR HAYDEN: Okay, thank  
17 you, Kathy. And I guess we'll open up the floor to  
18 questions. Environment Canada...?

19                   MS. SARAH-LACEY MCMILLAN: Good  
20 morning. It's Sarah-Lacey with Environment Canada. I  
21 have a question regarding a discussion that occurred  
22 yesterday about incinerators.

23                   And I know that you are not ready to  
24 decide on what incinerator you want to use. But, you  
25 did indicate that you're going to commit to meeting

1 some standards. And I just want to clarify which  
2 standards those are.

3 MR. DAVID SWISHER: David Swisher with  
4 Avalon. In our discussion yesterday I'd mentioned  
5 that most incinerators, at least that we've looked at  
6 or investigated, meet typical EPA standards. But we  
7 would be more than happy to entertain what standards  
8 the EC would recommend for those incinerators.

9 MS. SARAH-LACEY MCMILLAN: It's Sarah-  
10 Lacey with Environment Canada. My line of questioning  
11 was more related to your incineration management plans  
12 and incorporating the advice from the EC technical  
13 document for batch incineration.

14 Would you be willing to make a  
15 commitment to implementing an incineration management  
16 plan and incorporating that bas -- batch waste  
17 incinerator document?

18 MR. DAVID SWISHER: So I think --  
19 David Swisher, Avalon. So I think what you're saying  
20 is, would be incorporated into our conceptual waste  
21 management plan. I believe the incineration would be  
22 included in there.

23 In terms of examples of incinerators,  
24 we can certainly put examples that we've investigated  
25 in that plan, as, you know, if that would help.

1 David -- David Swisher with Avalon.  
2 The only reason I -- I hesitate to say this is the  
3 type that we'll use is because it won't be implemented  
4 for another three (3) or four (4) years, and there  
5 will probably be new technology that comes out. And  
6 we'll certainly want to comply with the latest and  
7 greatest. That's why I'm -- I'm having a hard time,  
8 you know, commenting on that. Thank you.

9 MS. AILEEN STEVENS: Aileen Stevens,  
10 ENR. I think ENR and ECR are on the same page with  
11 the incineration management plan. And we typically  
12 request the same standards for each proponent. And  
13 it's simply that the incinerator that's selected is  
14 designed to meet the Canada wide standards for dioxin  
15 and furan and mercury emissions.

16 And then, also, as part of operating  
17 that incinerator, that you incorporate the practices  
18 and recommendations included in Environment Canada's  
19 document on batch waste incineration just to make sure  
20 it's operated appropriately and the batches are put  
21 together appropriately and that the maintenance is  
22 carried out and there's appropriate training for the  
23 operators.

24 I mean, incineration is not rocket  
25 science, but it is actually more complex than people

1 realize in order to achieve the manufacturer specs.

2 So that's basically what we're getting at.

3 MR. DAVID SWISHER: David Swisher,  
4 Avalon. I -- I appreciate that clarification. And --  
5 and we can say, you know, absolutely we'll include  
6 that in the plan and make sure that we have the  
7 appropriate measures within the plan to make sure that  
8 we're operating those incin -- incinerators to the  
9 design specifications.

10 So if you're looking for a commitment,  
11 we are committed to developing -- yes, we would commit  
12 to developing an incinerator plan as part of our  
13 conceptual waste management plan to include those  
14 specifics. Thanks.

15 MS. AILEEN STEVENS: Aileen Stevens,  
16 ENR. And just further on that, that it would be  
17 conducted in consultation with ENR and EC just to make  
18 sure that by the time we reach the end goal all  
19 parties are on the same page.

20 MR. DAVID SWISHER: David Swisher,  
21 with Avalon. Yes.

22 THE FACILITATOR HAYDEN: Shannon  
23 Hayden, with the Review Board. Thanks for that. And  
24 I'll go to Simon for a reading of that commitment.  
25 Can -- does Environment Canada or ENR -- well, would

1 you like to reiterate what you would like that  
2 commitment to read so we can have Avalon approve.

3 MS. SARAH-LACEY MCMILLAN: It's Sarah-  
4 Lacey, with Environment Canada. I have something  
5 written down here. And we'll just verify.

6 That Avalon will commit to consulting  
7 with EC and GNWT to develop and implement an  
8 incineration management plan incorporating the advice  
9 provided in the EC technical document for batch waste  
10 incineration.

11 THE FACILITATOR HAYDEN: I see some  
12 nodding heads from Avalon. So, once Simon is finished  
13 typing we'll have a reread.

14 MR. SIMON TOOGOOD: It's Simon  
15 Toogood, with the Review Board. I have the commitment  
16 as:

17 "Avalon commits to consulting with  
18 Environment Canada and the GNWT to  
19 develop and -- and implement an  
20 incineration manage -- and  
21 incineration management plan that  
22 incorporates the information in the  
23 Environment Canada batch waste  
24 incineration..."

25 I just missed the last part of the --

1 what the Environment Canada document is.

2 MS. SARAH-LACEY MCMILLAN: Sarah-  
3 Lacey, with Environment Canada. It's EC technical  
4 document for batch waste incineration.

5 MR. SIMON TOOGOOD: Hi, it's Simon  
6 Toogood with the Review Board again. I'll reread that  
7 in full. It's:

8 "Avalon commits to consulting with  
9 Environment and the GNWT to develop  
10 and implement an incineration  
11 management plan that incorporates  
12 information in the Environment  
13 Canada technical document on batch  
14 waste incineration management."

15 Is that correct?

16 THE FACILITATOR HAYDEN: Great.  
17 Thanks. Thanks, Simon. I guess we can move on. And  
18 if you guys have some more questions for Avalon.  
19 Sarah...?

20

21 --- COMMITMENT NO. 9: Avalon commits to  
22 consulting with  
23 Environment and the GNWT  
24 to develop and implement  
25 an incineration management

1 plan that incorporates  
2 information in the  
3 Environment Canada  
4 technical document on  
5 batch waste incineration  
6 management.

7

8 QUESTION PERIOD CONTINUES:

9 MS. SARAH-LACEY MCMILLAN: Sarah-  
10 Lacey, with Environment Canada.

11 Will Avalon be completing stack  
12 emission testing for the incinerator to ensure  
13 compliance with the Canadian wide standards for dioxin  
14 and furans, as well as the Canadian wide standards for  
15 mercury?

16 THE FACILITATOR HAYDEN: Shannon, with  
17 the Review Board. Just a moment for Avalon to  
18 consult.

19 MR. DAVID SWISHER: David Swisher,  
20 with Avalon. Thank you. I think our position would  
21 be that through best practice management, that we --  
22 and particularly with the best practice management and  
23 conceptual waste management plan that we have and that  
24 we'll be working with EC and GNR -- or ENR on that --  
25 that we should be able to meet the requirements for

1 the incineration, particularly when the incineration  
2 is -- is modelled to meet design specs.

3 So if we meet design specs, then there  
4 shouldn't be a need for further stack testing.

5 MS. SARAH-LACEY MCMILLAN: It's Sarah-  
6 Lacey. I'm going to ask Aileen to answer. I mean,  
7 I'm not an air expert. I do have a list of questions  
8 to ask. So I'll just ask her to elaborate on why  
9 we've requested it.

10 MS. AILEEN STEVENS: Stack testing for  
11 incinerators when they're being brought on board is  
12 becoming typical practice up here to ensure that it is  
13 being operated appropriately and it was designed as --  
14 as it was meant to be.

15 And, also, part of -- I mean, the stack  
16 testing for the incinerator kind of ties into the air  
17 quality monitoring that was presented in the air  
18 quality assessment. I guess I'm just going to jump  
19 right to it, but basically where the company says that  
20 they expect to:

21 "Trend input parameters used in the  
22 dispersion model. It is recommended  
23 that stack testing be conducted on  
24 the diesel generators, miner heater,  
25 and sulphuric acid plant after



1                               commissioning."

2                               And I think it would be fair that,  
3 under the same logic, the incinerator be stack tested  
4 as well.

5                               MR. MARK WISEMAN:     Mark Wiseman,  
6 Avalon. Again, with regard to incinerators, these are  
7 going to be very, very small emission points relative  
8 to some of the others.

9                               And again, with the comprehensive plans  
10 that we're talking about in terms of what's going into  
11 them, if we do -- hello? Yeah -- if we do a good job  
12 of -- of monitoring things like operating parameters,  
13 temperatures, flow rates, all those sorts of things,  
14 for a small emission source like that, we don't think  
15 that, you know, monitoring of -- of some of these  
16 other things are required. But we would agree that  
17 the sulphuric acid plant and that sort of thing, that  
18 -- that it would be required for those kinds of  
19 things.

20                              MS. AILEEN STEVENS:     Aileen Stevens,  
21 ENR. Okay, well, I guess we'll have to think on that  
22 and then come back to it. It would be preferable that  
23 stack testing was done upon commissioning.

24                              I have a few ques -- sorry, are you  
25 done, Environment Canada? Thanks. Okay, so from

1 ENR's perspective, I just had a few questions that I  
2 was looking for clarification on around the hydromet  
3 facility, dust activities on site, the air quality  
4 monitoring plan, and then I just confirmed our  
5 statements for the incineration management plan, but  
6 that's already been covered off.

7                   So to start with the emissions from the  
8 hydromet facility, I recognize that sulphur dioxide is  
9 the primary emission source. And that's from the  
10 sulphuric acid plant.

11                   But I'm just wondering what other  
12 emissions were considered and what levels they would  
13 be at from -- from the kiln or the pug mill -- I'm not  
14 sure which one (1) you guys were going with -- the  
15 dryer, and even fugitive emissions from the sulphuric  
16 acid plant, and I'll just...

17                   MR. DAVID SWISHER: David Swisher,  
18 with Avalon. Yeah, so the hydromet plant, outside of  
19 the sulphuric acid plant, recognizing that that's --  
20 that will -- will be the -- the largest emitter in the  
21 area, we didn't look at the hydromet plant, because  
22 it's a fully enclosed plant. And we're containing  
23 everything within that plant off of the -- any of the  
24 off gases that come off of the kiln itself are being  
25 captured and then reprecipitated and introduced back

1 into our waste stream.

2 So we were really concerned and  
3 focussed on the sulphuric acid plant. And Kathy can  
4 comment on the -- the sulphuric plant in -- in terms  
5 of -- I think.

6 What was your question, if you could,  
7 on the sulphuric acid plant? Thank you.

8 MS. AILEEN STEVENS: Well, my first  
9 question was: What are the extra emissions and -- and  
10 if fugitive emissions were considered from the  
11 sulphuric acid plant?

12 MS. KATHY PRESTON: Kathy Preston,  
13 from RWDI. Fugitive emissions from the plant were --  
14 were not considered in the -- in the dispersion  
15 modelling.

16 MS. AILEEN STEVENS: Aileen Stevens,  
17 ENR. No, sorry, I should clarify. I definitely  
18 recognize it wasn't input into the model, because  
19 perhaps it wasn't a criteria or a contaminant if  
20 there's acid mist or sulphur coming from the acid  
21 plant. But would -- well, I guess I'm just looking  
22 for clarification that there are, in fact, emissions  
23 that would come from that source from fugitive  
24 emissions.

25 And also, to sort of go back to what

1 you were saying about reprecipitating all emissions  
2 from the hydromet facility, so you're saying there are  
3 no stacks coming out of this building?

4 I mean, there must be -- there must be  
5 some emissions coming from the process.

6 MR. DAVID SWISHER: David Swisher,  
7 Avalon. Sorry, I didn't mean to give you that  
8 impression. You're correct, there is a -- a stack  
9 that will be coming from the hydromet plant from --  
10 but everything that -- so far the latest tests that  
11 we've been able to conduct have indicated that  
12 everything gets re-precipitated out and sent to the  
13 waste management facility.

14 So when we initially did the air  
15 quality with RWDI, our main concern was the SO2 and  
16 the sulphuric acid plant, understanding that that  
17 would be the largest emitter and that's why we -- we  
18 had that modelled.

19 MS. KATHY PRESTON: Kathy Preston,  
20 from RWDI. The one (1) thing I can comment on, just  
21 based on AP-42 emission factors for the type of  
22 facility it is, the double absorption, that certainly  
23 the sulphuric acid missed emissions would be very low  
24 compared to any other type of similar -- similar  
25 facility.

1                   However, as stated, they -- they  
2 weren't modelled, because again, there was -- wasn't  
3 anything to com -- compare them to.

4

5                   (BRIEF PAUSE)

6

7                   MR. DAVID SWISHER:    Sorry, I just -- I  
8 had a question for my own expert, so we're just  
9 pulling up -- I just want to make sure I can provide a  
10 -- some additional information I was thinking of there  
11 before...

12                  THE FACILITATOR MERCREDI:   And just  
13 for the sake of the transcripts, we'll give Avalon a  
14 moment to caucus here.

15                  MR. DAVID SWISHER:    David Swisher,  
16 Avalon. No further caucus, I just wanted to make sure  
17 that -- I was just double-checking a number that she  
18 had put in there with regards to the sulphuric acid  
19 plant output, just because I wanted to make sure that  
20 what we had modelled captured the latest change with  
21 regards to the original assessment that we had done at  
22 a sulphuric acid plant output of 700 tonnes per day,  
23 which is no longer the case.

24                  It's actually -- the output is around  
25 300 tonnes per day. So we have reduced that

1 significantly for the hydromet facility. Thank you.

2 MS. AILEEN STEVENS: Aileen Stevens,  
3 ENR. Just to clarify though, the information that I  
4 have down from the information that the model was  
5 based on was 225 tonnes a day of sulphuric acid.

6 So I guess the model is an  
7 underestimate just by amount then.

8 MR. DAVID SWISHER: David Swisher,  
9 Avalon. Actually, the model is overestimating that,  
10 because the model is based on -- she's just looking at  
11 the -- the data. The model was based on, actually,  
12 314 tonnes per day, but that's not the -- the use.  
13 The usage is around the two twenty-five (225) that  
14 you're talking about.

15 MS. AILEEN STEVENS: Aileen Stevens,  
16 ENR. Well, just to wrap this up, I was curious of the  
17 extra emissions, they weren't modelled, that's fine.  
18 But I guess we can recognize -- sorry, the additional  
19 fugitive emissions, the -- the amount of acid missed  
20 that may be coming from the sulphuric acid plant,  
21 you're indicating that the additional emissions from  
22 the hydromet facility would be reprecipitated.

23 But just to -- the -- the angle I was  
24 going to take with this was monitoring on site. SO2  
25 would be a good starting point, I would think, at

1 least, to be monitoring on site just to verify what's  
2 happening and where all the sulphur emissions are  
3 going, if they -- if they are present, if they're at  
4 the level predicted, if they're higher, et cetera.

5 Can Avalon -- sorry -- comment on their  
6 air quality monitoring plan? Thanks.

7 MR. DAVID SWISHER: David Swisher with  
8 Avalon. Absolutely. We -- we fully intend to -- to  
9 conduct monitoring of -- in the area, and I'll let  
10 Kathy speak to that monitoring plan, as she, based on  
11 the modelling work that they did for us, put together  
12 recommendations on what that modelling would look like  
13 -- or, monitoring would look like. Thank you.

14 MS. KATHY PRESTON: Kathy Preston,  
15 with RWDI. We did -- initially in the DAR we didn't  
16 recommend any ambient air quality monitoring because  
17 we didn't predict any exceedances. We did, as you  
18 noted, recommend that some stack testing be -- be done  
19 for the criteria air contaminants.

20 Then when we did the subsequent  
21 modelling inside the fence line, as I mentioned during  
22 the introduction, we predicted some exceedances. And  
23 therefore we did recommend that there be SO2  
24 monitoring at both sites inside the fence line and  
25 that TSP monitoring also occur at the mine site,

1 because we predicted an exceedance there - TSP for --  
2 for a year.

3 Now the SO2 monitoring we did recommend  
4 is passive SO2 monitoring. So that's what -- that's  
5 what we've recommended to date. And -- and definitely  
6 within the facility, because beyond the -- the -- we  
7 didn't predict any exceedances beyond the facility.

8 MS. AILEEN STEVENS: Aileen Stevens,  
9 ENR. Okay. Thanks for that clarification. I -- I  
10 didn't realize that there was additional monitoring  
11 that was going to be implemented. But the -- the  
12 exceedances that are expected are for one (1) hour SO2  
13 standards.

14 So are there new passive instruments  
15 that can pick up that kind of -- that kind of time  
16 frame?

17 MS. KATHY PRESTON: Kathy Preston,  
18 with RWDI. SO2 exceedances were predicted for one (1)  
19 hour and twenty-four (24) hour at the -- the Thor Lake  
20 site and for one (1) hour at the hydromet plant. And  
21 the passive monitoring would be thirty (30) day  
22 passive monitoring. It wouldn't be -- you're correct,  
23 it doesn't -- it doesn't catch the one (1) hour --  
24 well, it will. It's thirty (30) day; it's monthly  
25 monitoring.



1 MS. AILEEN STEVENS: Okay. Aileen  
2 Stevens, ENR. It will be difficult to see -- to -- to  
3 verify the predictions for a one (1) hour and twenty-  
4 four (24) hour standard on a thirty (30) day -- a  
5 thirty (30) day exposure, just because those peaks  
6 will get sort of averaged out. Have you considered  
7 other types of monitoring for this type of  
8 verification?

9 THE FACILITATOR HAYDEN: This is  
10 Shannon with the Review Board. Just giving Avalon a  
11 moment.

12 MR. DAVID SWISHER: David Swisher,  
13 with Avalon. So in discussions with our expert and  
14 the points that you've made, I -- I think, between  
15 Mark and I, we've -- we would feel comfortable going  
16 beyond those rec -- recommendations and -- and looking  
17 at the more instantaneous monitoring for the SO2  
18 within the fence line. Mind you, it's within the  
19 fence line that we only saw those exceedances. So  
20 from a worker exposure standpoint and a safety  
21 standpoint, we're comfortable with increasing the --  
22 the recommendations provided to us.

23 And we would suggest doing that for a  
24 year period to get a baseline. And then, of course,  
25 we would -- we would want to obviously share those

1 results with GNWT and -- and discuss any -- any  
2 further or additional modifications to that plan, if  
3 necessary. Thanks.

4 MS. AILEEN STEVENS: Aileen Stevens,  
5 ENR. Okay, great. Thanks. I think that will be very  
6 helpful. I'll just move along. We've kind of crossed  
7 into the other -- the other section I was going to ask  
8 about, but I just wanted to go back to the dust  
9 activities.

10 I had -- in my IR, I had asked for some  
11 clarification on the handling during transport, and  
12 the response was -- well, I -- I wasn't still -- I  
13 still wasn't clear after I received the response. So  
14 I just wanted to verify a few items. And I do  
15 apologize if you've already talked about this over the  
16 past few days.

17 But in the air quality assessment, you  
18 do indicate in Section 7, for air quality and dust  
19 control, that:

20 "Additional mitigation measures  
21 could be considered to reduce the  
22 emissions, and they include the  
23 following: employ wet suppression  
24 systems, cover the conveyor system,  
25 connect the process building event

1 to a bag-house dust collection  
2 system, restrict unnecessary idling  
3 of project equipment, and inspect  
4 and maintain vehicles and equipment  
5 regularly."

6 Now, the way it's written, it -- it  
7 implies that that's not currently the plan, that you  
8 will employ those measures if there's a dust issue?

9 MR. DAVID SWISHER: David Swisher,  
10 with Avalon. What -- what that's meant to imply is  
11 that during the natural course of operations from,  
12 say, the underground mining, the material's going to  
13 be wet when it's conveyed. It's going to be in a  
14 moist state and that it should not be -- technically,  
15 it should not be generating any dust.

16 If we observe, through not only the  
17 sampling that we're doing on the surface as well as  
18 underground, that there is dust, then we would employ  
19 dust suppression to -- to take care of that. I think  
20 that's the same case for the transportation at the  
21 site, when we're taking containers from the -- the  
22 plant down to the barge area. The majority of the  
23 season, it'll either be snow covered/ice covered, but  
24 there will be the summer months that that road will --  
25 will dry up. And once that occurs, then we'll -- we'll

1 apply the water to -- to mitigate the -- the dust  
2 issues there.

3                   We just -- in terms of implementing  
4 something for a year-round situation that may not  
5 require it, we're just hesitant to commit to that.  
6 But we are committing to -- to ensuring dust  
7 suppression when it's required, to -- to make sure  
8 that we're not emitting, you know, dust plumes and  
9 whatnot that you often see during the springtime  
10 anyway in the communities. Thanks.

11                   MS. AILEEN STEVENS: Aileen Stevens,  
12 ENR. Okay, thanks for the clarification. Now just to  
13 talk about quickly the handling -- the handling and  
14 transport, how controlled is the product when it's  
15 being handled and transported?

16                   Is there a negative pressure system in  
17 the loading bays? Is there a covered conveyor system?  
18 And during transport, are the C-cans (phonetic)  
19 sealed? Are they airtight? Are they watertight?

20                   And also the concentrate in trailers  
21 with a tarp over it, is the concentrate first in bags  
22 and then in a truck with a tarp, or is it just free  
23 concentrate with a tarp cover to go down the road?

24                   MR. DAVID SWISHER: David Swisher,  
25 Avalon. It's a long range, so I'll start at the

1 beginning. From the floatation plant, the floatation  
2 plant itself at Nechalacho is fully enclosed. All the  
3 loading that's done into the containers, basically the  
4 material or concentrate is in a moist state. It's  
5 going to be at least, I believe, 10 to 12 percent  
6 moisture content. So it's already moist. That  
7 material then gets loaded into the half-height  
8 intermodal containers inside the -- the building.  
9 Once those are loaded, then the containers are moved  
10 outside.

11 What we expect and what we've designed  
12 for is the fact that most of those containers will be  
13 outside and will freeze, and everything will freeze in  
14 the -- the containers during the winter months.

15 So when we're shipping or transporting  
16 across the lake, the material's already moist; it will  
17 most likely be frozen, which is why on -- when we get  
18 it to the hydromet plant at Pine Point, we actually  
19 have a indirect-heating thaw shed that's also inside.  
20 And the containers go inside of that shed. And then,  
21 from inside that shed, the containers then will be --  
22 once they thaw out, then they'll be dumped into a --  
23 probably another small-circuit wash-down, water  
24 circuit so that it basically avoids any lumping going  
25 into the hydrometal -- metallurgical plant.

1                   So all of that is pretty well  
2 contained. Now, when we ship product, we have two (2)  
3 products from the hydromet plant; we have a light rare  
4 earth precipitant that contains half our heavy rare  
5 earths. That will be sealed in containers, and that  
6 will be -- and -- and that will be shipped south. And  
7 that material will also be moist, because you can't  
8 fully dry that material. It will still be 10 to 12  
9 percent moisture content.

10                   The residue is the second item, and  
11 that's what -- where we were suggesting hauling in  
12 bulk with tarped trucks. But the residue itself is  
13 going to be a minimum of 15 percent moisture con --  
14 content, up to 20, 25 percent moisture content, as  
15 indicated by Henrietta Notzl, who was here earlier  
16 this week.

17                   So that's going to be actually in cake  
18 form, very moist. So we don't expect any -- any  
19 drying to take place, whatsoever. And that will be  
20 trucked to the railhead. And then at the railhead  
21 facilities, what we're told by CN -- because that will  
22 be on their property, they'll be -- they'll be  
23 building to their standards.

24                   And the trans-load facility, itself,  
25 will be enclosed where the rail cars come inside the

1 trans-load facility and get loaded with that material.  
2 And then they have their covers, plastic covers, that  
3 go over the top of that, as they do with hauling dry  
4 goods, as well.

5                   Hopefully that answers your question.

6 Thanks.

7                   MS. AILEEN STEVENS: Yes, thanks for  
8 the clarification there. Now, the 10 to 12 percent  
9 moisture would likely indicate that there would not be  
10 a significant amount of dust.

11                   But this has been changed then from the  
12 previous 8 percent assumption?

13                   MR. DAVID SWISHER: I think the -- the  
14 8 percent assumption was there's this range between 8  
15 and 12 percent, and it depends on the filter presses,  
16 the type of filter presses that are used.

17                   Manufacturers' designs recommend, you  
18 know, anywhere between 8 and 12 percent. Our  
19 metallurgical experts are indicating that you're going  
20 to be hard pressed to get below 10 percent with those  
21 filters, because general, regardless of what they  
22 design down to, and saying you might achieve 8  
23 percent, you're typically in the 10 to 12 percent  
24 range.

25                   MS. AILEEN STEVENS: Aileen Stevens,

1 ENR. Okay. Thanks for that. I guess the concern is  
2 that I know that the -- the product is meant to be  
3 relatively non-toxic, benign, non-reactive, all that  
4 stuff; but we don't know the -- the actual effects to  
5 the environment if -- under the situation of  
6 contaminant loading. I haven't seen any studies for  
7 such a thing.

8                   So the idea of a truck with the product  
9 in it with a -- just simply a tarp over it driving  
10 down the highway does lend itself to the notion that  
11 dust could escape and start loading along -- along the  
12 highway. This has occurred at other mines.

13                   But at 20 to 25 percent, obviously --  
14 20 to 25 percent moisture, I mean, we wouldn't expect  
15 that to happen. But 20 to 25 percent moisture is  
16 pretty significant and, obviously, expensive to haul  
17 that much water.

18                   So at some point in the future, is --  
19 is it likely that Avalon will be trying to reduce that  
20 more significantly, or is it -- is it possible to get  
21 past a point where the moisture would no longer  
22 contain the dust in any of your process optimization?

23                   MR. DAVID SWISHER: At this stage,  
24 what our -- what Henrietta, our metallurgical expert,  
25 plus our new VP of metallurgy, David Marsh, has



1 indicated is that, at best, we'll get down to 15  
2 percent moisture content. Right now, everything's  
3 indicating 15 to 25, and generally around the 20  
4 percent range.

5 In terms of downstream customers,  
6 delivering the residue, so, you know, we're still  
7 looking at the facilities in the South and whether  
8 we're -- we're going to treat that, or if it -- it  
9 gets sold at a discount to others. They'll require it  
10 dry. And if they require it dry, then our discussions  
11 are that we would put a drying facility where it's  
12 required, where its final destination is, if it's  
13 required.

14 But not -- at this point, we don't  
15 envision drying that material completely. The -- the  
16 costs to do that, I think, outweigh at this point,  
17 based on the expensive cost to -- to try and dry it,  
18 that much material, versus the shipping costs.

19 MS. AILEEN STEVENS: Okay. Thanks for  
20 that clarification. Well, I guess, if the moisture --  
21 if the moisture levels are contained, then I guess I  
22 have no further questions on the item of contaminant  
23 loading. Sorry, did you have further comments?

24 MR. DAVID SWISHER: David Swisher,  
25 Avalon. Yeah, I just wanted to make a note, too, that

1 we actually do have a real-life example of that with  
2 regards to the project site itself, because the -- the  
3 deposit itself is still -- and the -- and the -- the  
4 minerals of interest are -- are contained all the way  
5 to the surface and outcropping to the surface.

6                   And so you've got -- you've got the  
7 fresh water, you've got the -- the vegetation, the  
8 trees, and everything is -- is not adversely affected  
9 by those elements that are naturally -- or, in the  
10 natural state and at surface, because we know, based  
11 on all of the -- the samples that we've taken and the  
12 drilling that we've done, that all of that outcrops  
13 right to surface as well. So just wanted to make that  
14 -- that point. Thanks.

15                   MS. AILEEN STEVENS: Aileen Stevens,  
16 ENR. No, thanks for that clarification. That's a  
17 valid point. Okay. So my final questions were  
18 regarding the air quality monitoring plan. Now,  
19 you've mentioned that you will be doing sulphur  
20 dioxide monitoring and TSP monitoring. And I guess  
21 I'd just like to -- well, sorry, and also you've  
22 mentioned that you would do stack testing on your  
23 diesel generators and your mine air heaters and the  
24 sulphuric acid plant stack, I assume, after  
25 commissioning.

1                   Could you please just clarify the  
2 intentions there? Because, ultimately, what ENR would  
3 like to have is an air quality monitoring and  
4 management plan developed in consultation with ENR  
5 prior to implementation. Thanks.

6                   MR. DAVID SWISHER:     David Swisher,  
7 Avalon. Yeah, we can confirm and -- and agree with  
8 what you've indicated there on our monitoring plans.

9                   MS. AILEEN STEVENS:     Okay. I guess,  
10 taking it to the next level then -- sorry, Aileen  
11 Stevens, ENR -- could we please get a commitment from  
12 Avalon to develop an air quality monitoring and  
13 management plan in consultation with ENR and EC  
14 including the items that have already been indicated,  
15 such as stack testing and SO2 and TSP monitoring.

16                  MR. DAVID SWISHER:     David Swisher,  
17 Avalon. Sure.

18                  THE FACILITATOR HAYDEN:   Thanks, this  
19 is Shannon Hayden with the Review Board. While Simon  
20 types that down, I also want to revisit a discussion  
21 from some of your questions just a little while ago.

22                         And I wasn't sure if we should capture  
23 a commitment when Avalon said they were -- I wasn't  
24 sure if they were willing to do the more instantaneous  
25 monitoring or if they're willing to consider doing

1 more instantaneous monitoring for within the fence  
2 line for that one (1) year to establish a baseline.

3 So maybe we could just see if there's a  
4 commitment in there too.

5 MR. SIMON TOOGOOD: It's Simon  
6 Toogood, with the Review Board. Just to get into the  
7 record, the commitment:

8 "Avalon commits to developing an air  
9 quality monitoring and management  
10 plan in consultation with ENR and  
11 Environment Canada, including stack  
12 testing, SO2, and TSP monitoring."

13 Does that capture the intent of the  
14 commitment?

15 MS. AILEEN STEVENS: Aileen Stevens,  
16 ENR. Including, but not limited to, if Avalon's okay  
17 with that.

18 MR. DAVID SWISHER: David Swisher,  
19 with Avalon. Can we have just a moment here, because  
20 I'm -- I'm getting a whole lot of things and I'm not  
21 listening to what's happening here. Thanks.

22 THE FACILITATOR MERCREDI: What we'll  
23 do is, as far as -- we'll capture it for the re --  
24 we'll try and capture the concern allowing -- that  
25 GNWT as stated, and then we'll get that reading. And

1 then while Avalon is caucusing, we'll go back to them  
2 when they're ready.

3 So, with that, Simon, could you read  
4 it? And this is with the intention of Aileen  
5 listening, not necessarily Avalon.

6 MS. AILEEN STEVENS: Sorry, Aileen  
7 Stevens, ENR. Maybe we should wait, though, for  
8 Avalon, since it is their commitment, just to make  
9 sure they're okay with it.

10 MR. SIMON TOOGOOD: Hi, Simon Toogood.

11 "Avalon commits to developing an air  
12 quality monitoring and management  
13 plan in consultation with ENR and  
14 Environment Canada, including but  
15 not limited to stack testing and SO2  
16 and TSP monitoring."

17 THE FACILITATOR MERCREDI: And GNWT,  
18 does that capture...?

19 MS. AILEEN STEVENS: Aileen Stevens,  
20 ENR. That works for me. Let's just see what Avalon  
21 thinks.

22 MR. DAVID SWISHER: David Swisher,  
23 with Avalon. A lot of activity over here. Could you  
24 read that one (1) more time for us, please?

25 MR. SIMON TOOGOOD: Simon Toogood with

1 the Review Board.

2 "Avalon commits to developing an air  
3 quality monitoring and management  
4 plan in consultation with ENR and  
5 Environment Canada, including, but  
6 not limited to, stack testing and  
7 SO2 and TSP monitoring."

8 MR. DAVID SWISHER: David Swisher,  
9 with Avalon. Yes, that -- that sounds good. Thanks.

10

11 --- COMMITMENT NO. 10: Avalon commits to  
12 developing an air quality  
13 monitoring and management  
14 plan in consultation with  
15 ENR and Environment  
16 Canada, including, but not  
17 limited to, stack testing  
18 and SO2 and TSP monitoring

19

20 THE FACILITATOR MERCREDI: Okay, and  
21 so that was the most recent concern. There was a  
22 commitment probably about ten (10) minutes ago that  
23 might have need capturing as well, and we can go to  
24 Simon for that.

25 MR. SIMON TOOGOOD: It's Simon Toogood

1 with the Review Board. I have it as:

2 "Avalon commits to continuous  
3 monitoring of SO2 for one (1) year  
4 within the fence line at the Thor  
5 Lake mine site and  
6 hydrometallurgical plant site."

7 THE FACILITATOR MERCREDI: And,  
8 Aileen, does that capture that concern? Okay, and  
9 David, does that -- was that within the realm of  
10 something that Avalon can commit to? If Avalon  
11 needs a moment, that -- that's definitely all right.  
12 We'll have Simon read it back. Simon...?

13 MR. SIMON TOOGOOD: Simon Toogood.  
14 "Avalon commits to continuous  
15 monitoring of sulphur dioxide for  
16 one (1) year within the fence line  
17 at the Thor Lake mine site and  
18 hydrometallur -- hydrometallurgical  
19 plant site."

20 MR. DAVID SWISHER: Great, I got  
21 nothing from either side, so -- David Swisher with  
22 Avalon -- yes, that sounds good. Thank you.

23

24 --- COMMITMENT NO. 11: Avalon commits to  
25 continuous monitoring of

1 sulphur dioxide for one  
2 (1) year within the fence  
3 line at the Thor Lake mine  
4 site and  
5 hydrometallurgical plant  
6 site

7  
8 THE FACILITATOR MERCREDI: Great,  
9 thank you. So I think we're up to date on -- on that.  
10 And then moving on for further questions.

11 MS. AILEEN STEVENS: Aileen Stevens,  
12 ENR. The last thing on my list was about the  
13 incineration management plan, but we have a previous  
14 commitment already on the record. Is that correct?

15 MR. SIMON TOOGOOD: Mr. Simon Toogood  
16 with the Review Board. I have a previous commitment  
17 as number 8 on incinerations standards.

18 "Avalon commits to consulting with  
19 Environment Canada and GNWT to  
20 develop and implement an  
21 incineration management plan that  
22 incorporates information in the  
23 Environment Canada technical  
24 document on batch waste incineration  
25 management."



1 MS. AILEEN STEVENS: Aileen Stevens,  
2 ENR. Thanks very much. That's all I have to ask  
3 about air quality. And thanks for your patience and  
4 all your answers.

5 MR. DAVID SWISHER: David Swisher,  
6 Avalon. No, thank you for your patience.

7 THE FACILITATOR HAYDEN: Okay. Are  
8 there any more questions from the floor for air  
9 quality for both the Thor Lake or the  
10 hydrometallurgical site?

11 THE FACILITATOR MERCREDI: We'll go to  
12 the teleconference line. Is there any questions on  
13 air quality/air emissions for either sites for the  
14 Thor Lake project?

15 MS. VICTORIA ST. JOHN: Not at this  
16 time.

17 THE FACILITATOR MERCREDI: And,  
18 Victoria was that you, for the record?

19 MS. VICTORIA ST. JOHN: Yes.

20 THE FACILITATOR MERCREDI: Victoria,  
21 was that -- was that your non-comment?

22 MS. VICTORIA ST. JOHN: Pardon?

23 THE FACILITATOR MERCREDI: Is this  
24 Victoria St. John?

25 MS. VICTORIA ST. JOHN: Yeah.

1 THE FACILITATOR MERCREDI: Okay.

2 Thank you. We just needed to clarify that for the  
3 record. Thank you.

4 MS. VICTORIA ST. JOHN: Okay.

5 THE FACILITATOR MERCREDI: If there  
6 are no further questions on air quality or air  
7 emissions, then we'll move to the next topic on the  
8 agenda. So again, by show of hands, please come  
9 forward to the mic. If not, then we will move to the  
10 next topic, which is socioeconomic issues, in the run-  
11 up to the break. We'll go for about twenty (20)  
12 minutes on socioeconomic issues, training, employment,  
13 and procurement.

14 For sure. We will take a break. We'll  
15 take about a ten (10) minute break.

16

17 --- Upon recessing

18 --- Upon Resuming

19

20 SOCIO-ECONOMIC ISSUES

21 THE FACILITATOR MERCREDI: Okay. I'll  
22 give a one (1) minute warning. Everybody's had a  
23 pretty good and long break, so we'll give a one (1)  
24 minute warning, and then we'll start up with  
25 socioeconomic issues.

1                   Thank you, and welcome back from break.  
2   So we will launch into the socio -- topic of  
3   socioeconomic issues. Training, employment, and  
4   procurement is first up on the -- on the agenda. And,  
5   first of all, we will go to Avalon for any opening  
6   statements, anything on that matter.

7                   MR. DAVID SWISHER:   David Swisher,  
8   with Avalon. Yeah, I'd like to just comment that you  
9   should have received the correspondence from the  
10   meeting minutes between Avalon and the GNWT that  
11   occurred prior to these technical sessions, and -- and  
12   the fact that a lot of the -- at least our impression  
13   from that meeting was that many of the items that were  
14   discussed were addressed and should be in the letter  
15   that the Review Board has now. Thanks.

16                  THE FACILITATOR MERCREDI:   Thank you.  
17   And that -- that document is posted and available on  
18   the -- the Review Board website. Further to that,  
19   were there anything? If not, I'll go to the floor for  
20   questions.

21

22   QUESTION PERIOD:

23                  MS. BRITTANY SHUWERA:   Brittany  
24   Shuwer, GNWT. Thanks for posting the minutes on the  
25   registry. I saw them this morning, so thanks for

1 that.

2 Just in followup to yesterday's  
3 discussion on access to the haul road, the GNWT wants  
4 to confirm that traditional and business users will be  
5 able to access the road over the life of the mine.

6 I know Avalon discussed controlled  
7 access, so we just want to confirm that users will be  
8 able to access the road as well.

9 MR. DAVID SWISHER: David Swisher,  
10 with Avalon. As mentioned yesterday, that they would  
11 be able to access the road. However, during the  
12 period in which we're transporting, then we also have  
13 a responsibility, considering it's going to be leased  
14 ground, to make sure that safety is of the utmost  
15 importance. And so there may be some restrictions  
16 during certain periods, depending on the haulage  
17 routes, strictly for the safety of other persons on  
18 the road. Thank you.

19 MS. BRITTANY SHUWERA: Brittany  
20 Shuwera, GNWT. Thanks for that confirmation. So I  
21 just have two (2) questions in follow-up to the  
22 meeting that we had with Avalon last week. We managed  
23 to clear up a lot of outstanding issues. There's just  
24 two (2) things regarding reporting that we want to  
25 just put out on the record.

1                   Further to our meeting on August 1st,  
2 the GNWT appreciates that Avalon has made significant  
3 commitments in bringing industry benefits to the NWT.  
4 We are encouraged by Avalon's willingness to work  
5 together and achieve common goals.

6                   There are a few outstanding concerns  
7 with respect to reporting that we would like to  
8 further discuss. GNWT recognizes that there are  
9 privacy and competitive concerns with respect to some  
10 reporting clauses. As well, the GNWT recognizes that  
11 onerous or duplicative reporting requirements are not  
12 necessary.

13                   The following items remain to be  
14 outstanding and are examples of reporting commitments  
15 met by other NWT businesses.

16                   With respect to reporting on NWT  
17 purchased goods and services, the GNWT is unable to  
18 quantify benefits from Northern procurement if  
19 companies are unable to provide a breakdown of the  
20 gross value of goods and services.

21                   Could Avalon commit to annually  
22 reporting on the gross value of goods and services  
23 purchased during the calendar year by major category  
24 of purchase in relation to each phase of the project?

25                   MR. DAVID SWISHER:     David Swisher,

1 with Avalon. I -- I'm going to step back and just  
2 mention that as a result of correspondence that was  
3 sent to the GNWT on August 1st indicating that Avalon  
4 is willing to sit down with the GNWT and work out an  
5 SEA, that these details as discussed in our meeting  
6 would be addressed and determined then.

7                   So Avalon's not willing to commit until  
8 the Minister gets back to Avalon with regards to their  
9 response. Thank you.

10                   MS. BRITTANY SHUWERA: Brittany  
11 Shuwera, GNWT. Thank you for that. We're pleased at  
12 this time with that response and look forward to  
13 further discussion. I'll just finish with my last  
14 question, and I assume the response will be much the  
15 same, but I'd like to put it out there anyway.

16                   In order for benefits from the Avalon  
17 project to be extended to NWT businesses, it is  
18 important for all businesses to understand what  
19 opportunities are available. The GNWT recognizes and  
20 is pleased to see the commitments Avalon has made with  
21 the local study area, but would also like to -- like  
22 confirmation that NW -- NWT businesses are provided  
23 full and fair opportunity, by priority, to participate  
24 in the contract bids.

25                   Can Avalon commit to providing an

1 annual business forecast and assessment?

2 MR. DAVID SWISHER: David Swisher,  
3 with Avalon. You are correct, the answer is going to  
4 be similar. But what I'll add to that is that as  
5 mentioned in our discussions, we give priority to our  
6 Aboriginal partners first and foremost. So I'm sure  
7 that if we have future discussions with regards to any  
8 agreements with the GNWT, then those details would be  
9 discussed.

10 And again, just for the record, Avalon  
11 is still waiting for a response from the Minister with  
12 regards to that.

13 I'd also like to point out that the  
14 GNWT should download the CSR report that Avalon has  
15 provided for the public registry, as there are certain  
16 reporting items that we've already indicated in there  
17 that are currently acceptable for Avalon and we look  
18 forward to discussing more in the future with the  
19 GNWT, as long as it doesn't supercede our Aboriginal  
20 partner commitments. Thank you.

21 MS. BRITTANY SHUWERA: Brittany  
22 Shuwera, GNWT. Thank you for your response. We  
23 acknowledge that as well and look forward to further  
24 discussions. I think that's all we had at this time.

25 If -- if anything else comes up, I'm

1 sure we'll be in touch. Thanks.

2 THE FACILITATOR HAYDEN: Thanks,  
3 Brittany. This is Shannon with the Review Board. Are  
4 there any further questions from the floor? And -- I  
5 -- I guess I could check to see if there is somebody  
6 on the line still as well.

7 MS. VICTORIA ST. JOHN: Yes, this is  
8 Victoria St. John, KFN.

9 THE FACILITATOR HAYDEN: Okay. Did  
10 you have any questions for the -- the training,  
11 employment, and procurement at this time?

12 MS. VICTORIA ST. JOHN: None at this  
13 time.

14 THE FACILITATOR HAYDEN: Okay.

15 MS. VICTORIA ST. JOHN: Thank you.

16 THE FACILITATOR HAYDEN: Okay. And  
17 anybody in the room here?

18 MS. SHANNON GAULT: Shannon Gault for  
19 the YKDFN. Sorry about that. I just wanted clarity  
20 on a couple of points that were observed in the DAR.  
21 In addition to recognizing agreements with the First  
22 Nations, in terms of contract procurement, I'm just  
23 looking for confirmation that, under the preferential  
24 Northern hiring policy that Avalon has agreed to, that  
25 IBA communities will be given priority within that



1 group as well.

2 MR. DAVID SWISHER: David Swisher with  
3 Avalon. Yes, with the -- the -- the priority is first  
4 with our Aboriginal partners.

5 MS. BRITTANY SHUWERA: Thank you for  
6 that. Regarding training, in the DAR it states that  
7 Avalon receives Aboriginal skills and employment  
8 partnership funding.

9 I just was looking for more details on  
10 how that funding is being used and plans to be used  
11 with the Aboriginal partners leading up to project  
12 startup and throughout the process.

13 MR. DAVID SWISHER: David Swisher,  
14 Avalon. Shannon, I'm sorry, I missed it when that --  
15 was that referring to the training? Okay. With  
16 regards to training, that -- any funding that Avalon  
17 receives, funding support that Avalon receives, is  
18 going to be used for pre-construction training.

19 We have pre-construction activities,  
20 and so what we want to do -- and the idea is to  
21 attract from our Aboriginal communities, as well as  
22 all communities that are available, but giving  
23 preference to those seats within our Aboriginal  
24 communities for the pre-construction training.

25 So we'll have pre-construction

1 training. And then during construction, there's  
2 opportunities to actually get on-the-job training with  
3 -- during the construction periods. And then, of  
4 course, during the operations, we'll have  
5 apprenticeship programs that will provide training as  
6 well for both skilled and non-skilled employees.

7                   Hopefully that answered your questions.  
8 Thanks.

9                   MS. BRITTANY SHUWERA: Thank you. It  
10 does. I think, just for the Review Board, I'll add  
11 some context to my questions. The issue of training  
12 and increasing knowledge and education of First  
13 Nations members is a -- is a really significant point  
14 of interest for First Nations communities and  
15 governments.

16                   Oftentimes, we get statistics from our  
17 workers at various mines, and they tend to fall into  
18 the unskilled or semi-skilled categories of  
19 employment. And we're always eager to work with  
20 developers to increase the skills of our people to get  
21 more skilled training and employment. And we're  
22 obviously very encouraged to know that training  
23 funding will be used and will be targeted towards our  
24 First Nations members, so we thank the Proponent for  
25 that.

1                   And I guess I would just follow that by  
2 asking if it would be possible -- I think the DAR  
3 mentions the percentage of current employees -- or,  
4 that is, First Nations employees that Avalon has  
5 hired, and I would ask that those numbers be provided  
6 for First Nations members who benefit from training.

7                   Was that clear? I feel like I was  
8 repeating myself. I apologize.

9                   MR. DAVID SWISHER: David Swisher,  
10 with Avalon. No, fully understood. I think we -- you  
11 could find the answer to your question in the CSR  
12 document that was just posted to the Review Board  
13 site. We also have the CSR document that's posted on  
14 Avalon's website. And on page 15 of that document,  
15 there's a percentage breakdown of the current  
16 distribution of employees, both Aboriginal and non-  
17 Aboriginal, and hopefully that would answer your  
18 questions. Thanks.

19                  MS. BRITTANY SHUWERA: Thank you.  
20 That's all I have right now.

21                  THE FACILITATOR HAYDEN: Okay. This  
22 is Shannon with the Review Board. Remaining on the  
23 topic with training, employment, and con -- and  
24 procurement for now, I'm wondering if there's any more  
25 questions.

1 (BRIEF PAUSE)

2

3

4 THE FACILITATOR HAYDEN: Okay. Seeing  
5 none, I guess we can move on within the agenda. We're  
6 still discussing socioeconomics, but the next item is  
7 culture, language, and way of life. I'm not sure if  
8 Avalon were interested in saying some opening  
9 statements for that, or if we should open the floor  
10 for questions.

11 Okay. So if there's any questions in  
12 the room for socioeconomic issues -- culture,  
13 language, way of life -- now is your time. And I -- I  
14 believe Victoria might have come back on the line, on  
15 the phone? Does she have any questions for Avalon?

16 MS. VICTORIA ST. JOHN: Not at this  
17 time. I don't have any questions

18 THE FACILITATOR HAYDEN: Thank you.

19 MS. VICTORIA ST. JOHN: Thank you.

20 THE FACILITATOR MERCREDI: We -- if  
21 there are no further questions on training,  
22 employment, procurement, culture, language, and way of  
23 life, we are at the last topic of the agenda, so --  
24 which would be archeological, inherited resources, and  
25 other issues.

1                   So, again, we will move to that last  
2   topic if there are no -- if there no -- by a show of  
3   hands, and I'm not seeing any, so.

4                   MR. SHAFIC KHOURI:   Paul, can you just  
5   give us a few minutes?

6                   THE FACILITATOR MERCREDI:   Absolutely,  
7   you bet.

8                   MR. SHAFIC KHOURI:   (OFF MIC).

9                   THE FACILITATOR MERCREDI:   You bet.

10                  MR. SHAFIC KHOURI:   Thanks.

11                  THE FACILITATOR MERCREDI:   That was  
12   Shafic Khouri with GNWT just asking for a moment to  
13   caucus.

14                  MR. SHAFIC KHOURI:   Thanks, Paul.

15                  THE FACILITATOR MERCREDI:   You bet.  
16   While GNWT caucuses, and it appears they may be good  
17   to go, we will try and contact the Prince of Wales  
18   Northern Heritage Centre to see if they -- they --  
19   they might have been planning to be here at 3:30, so  
20   if we can contact them, they may or may not have  
21   concerns to bring on record.

22                  I know that Avalon does have a few  
23   slides to present. So, with that, I see Shafic has  
24   come to the -- the mic. Shafic...?

25                  MR. SHAFIC KHOURI:   Shafic, ENR/GNWT.

1 Prince of Wales has nothing. They are not here. They  
2 don't plan on participating in this. Thank you.

3 THE FACILITATOR MERCREDI: Very well.  
4 Thank you. So with that, we'll move to the next topic  
5 for anybody that's in the room. Archeological,  
6 inherited resources, and other issues. By show of  
7 hands, if I'm not seeing anything, we'll open the  
8 floor to any questions on any other topics, this being  
9 the last day. And with -- if I'm not seeing any -- if  
10 I'm not seeing any -- and hands or anyone come up to  
11 the mic, then we will call this technical session  
12 closed for the week.

13 So if there -- if anybody would like  
14 any other opportunity to ask Avalon questions while  
15 they're here under the umbrella of the technical  
16 session, speak now. I'll go to Victoria; do you have  
17 any -- any -- any questions for the Avalon Team?

18 MS. VICTORIA ST. JOHN: Hello. Can  
19 you hear me?

20 THE FACILITATOR MERCREDI: Yes, I can  
21 hear you. Do you have any questions for the Avalon  
22 team?

23 MS. VICTORIA ST. JOHN: Would it -- as  
24 far as this afternoon, they're -- so they're not going  
25 to have anything this afternoon for the technical

1 session?

2 THE FACILITATOR MERCREDI: There are  
3 no questions as of yet. And I -- we will -- yeah,  
4 right now there are no questions, so this could very  
5 well be the end of the technical session.

6 MS. VICTORIA ST. JOHN: Okay. I don't  
7 have any questions right now, but it won't be our last  
8 opportunity at this?

9 THE FACILITATOR MERCREDI: There will  
10 be more opportunities for participation within the  
11 environmental assessment, if that's what you mean.  
12 But as far as the technical session is concerned, it  
13 is -- it appears that it might be coming to a close  
14 soon. So I hope that answers your questions.

15 MS. VICTORIA ST. JOHN: Yeah. I don't  
16 have any other questions right now.

17 THE FACILITATOR MERCREDI: Thank you,  
18 Victoria.

19 MS. VICTORIA ST. JOHN: Thank you.

20 THE FACILITATOR MERCREDI: And  
21 Stephanie?

22 MS. STEPHANIE POOLE: Thank you.  
23 Stephanie Poole, Akaitcho IMA office. Paul, you  
24 mentioned that Avalon has a presentation with a few  
25 slides. Is that in regards to archeology? I would

1 like to see the presentation before the technical  
2 session is closed.

3 THE FACILITATOR MERCREDI: Absolutely.  
4 David...?

5

6 PRESENTATION BY AVALON RE ARCHAEOLOGICAL AND HERITAGE  
7 RESOURCES AND OTHER ISSUES:

8 MR. DAVID SWISHER: David Swisher with  
9 Avalon. Can everybody see that okay now? Okay. So I  
10 just have a few slides on the archeology. I think  
11 that's a -- it's an important point that we did want  
12 to develop some slides on, particularly around our  
13 Aboriginal partners.

14 So I think I'll just go through a few  
15 of the slides here to take us through a little bit of  
16 the background on -- on the archeology done at the  
17 Nechalacho site.

18 So in the -- in the Thor Lake area,  
19 Nechalacho, in 1988 there was a study that was  
20 focussed on in -- within the same similar area,  
21 particularly for the barge area, and the road  
22 infrastructure. And so that study took place. We  
23 have that report.

24 And then in 2011 Avalon determined that  
25 although -- although there wouldn't be archaeological



1 items that may or may not change between 1988 and  
2 2011, because that's a recent period, what we did want  
3 to do though is we wanted to have more recent  
4 confirmation, considering that methodologies and the  
5 way that these studies are done have -- have improved  
6 since 1988.

7                   So in 2011 we did another study, and  
8 that study was an independent study. We also had our  
9 Aboriginal partners participate in that study to get  
10 their feedback and -- and help in the field with that  
11 study.

12                   And so in 2011 we had pedestrian  
13 surveys of -- of the proposed site at Nechalacho. So  
14 that included the plant site, the tailings management  
15 facility, the air strip, the lay-down areas, the  
16 roads, and the proposed seasonal docking area.

17                   And then in 2012 we did another field  
18 reconnaissance of any of the moderate- to high-  
19 potential portions of the proposed areas in question  
20 as a follow-up from the 2011 survey. And then in the  
21 Pine Point area we did, in 2012, the marshalling yard,  
22 or the seasonal dock facility.

23                   And so in 1988, just a quick review of  
24 that, there were three (3) sites that were documented  
25 as numbered there, KAPB-4, KAPB-3, and KAPB-2.

1                   And the -- the first site was deemed to  
2 be a prehistoric and recent -- prehistoric, and they  
3 found materials at the dock area and the adjacent  
4 road. The -- the second site, they found some scatter  
5 on the crest of a -- of the high ridge that would be  
6 just to the north of the tailings management facility  
7 -- proposed tailings management facility. And then  
8 the last site is really in and around the existing  
9 exploration camp and is really on the west end of --  
10 of Thor Lake.

11                   Four (4) artifacts at that time were  
12 collected from the second site, and they contained  
13 three (3) white quartz biface fragments and one (1)  
14 bone hide flesher.

15                   And so in 2011 the archeologists and  
16 the participants were -- were given the background of  
17 that 1988 survey. And so in 2011 they went back out  
18 in the field and they revisited all of those prior  
19 sites, and then they did additional work at one (1) of  
20 the higher-incident areas, which was the KAPB-4 site,  
21 to effect the potential effects from mine development.

22                   They also added six (6) new sites that  
23 were recorded along the north sides of the -- of the  
24 tailings management facility, and they saw -- they saw  
25 two (2) sites, small sites, comprised of one (1) or

1 two (2) stone circles and -- and possible hearths.

2 And of course one (1) site is a -- was a rock

3 structure used as a martin trap.

4                   They found two (2) sites that may be  
5 avoidable, but it -- but four (4) appear to be within  
6 the footprint of the proposed tailings management  
7 facility. So the recommendations in 2011 is to  
8 complete a detailed plan mapping, careful surface  
9 inspection, and some subsurface testing.

10                   So given that that was the  
11 recommendation, then we asked them to come back in  
12 2012 and follow up on those recommendations. And so  
13 they did a full assessment of both the Nechalacho site  
14 and the Pine Point barging area. And what they found  
15 were that all remaining survey gaps that they had in  
16 their 2000 survey were resolved. And then they went  
17 back and did a -- a systematic data recovery of the  
18 six (6) new sites around the tailings management  
19 facility, and they resulted in no artifacts recovered  
20 and considered that those sites would be mitigated.

21                   And they went down to the barging area,  
22 and they did not discover any new sites at the barging  
23 area and recommended to have it qualified. And so the  
24 recommendations from this year's survey was that if  
25 there were any additional work outside of the proposed

1 plan area around the -- the barging area, seasonal  
2 barge area, that there be a qualified archaeologist on  
3 site, on -- on site and -- and standby, excuse me, and  
4 then the crews be educated at the site for the  
5 identification of potential features and artifacts.  
6 And so Avalon will be committing to those as -- as  
7 well.

8                   And so mitigation measures, Avalon has  
9 conducted archaeological impact assessments at both  
10 sites to ensure that archaeological resources are not  
11 disturbed. Our resources are protected through  
12 various federal, territorial, and Inuvialuit  
13 legislation regulations.

14                   A site protection plan will be prepared  
15 that will facilitate the continued protection and  
16 management of archaeological resources during the  
17 construction phase of the project, and mitigation  
18 measures will be designed on an individual basis and  
19 require prior approval by the Prince of Wales Heritage  
20 Centre. Mitigation measures may include avoidance,  
21 temporary site protection, or systematic data  
22 recovery. And that's all I have. Thank you.

23                   THE FACILITATOR HAYDEN: Thank you.  
24 This is Shannon with the Review Board. Are there any  
25 questions on the archaeological programs that Avalon

1 has undertaken so far or questions, I guess, on what  
2 they might do in the future as well?

3

4 QUESTION PERIOD:

5 MS. STEPHANIE POOLE: Thank you. It's  
6 Stephanie Poole with the Akaitcho IMA office. I -- I  
7 do have a few questions stemming from the  
8 presentation. First question: A bone hide flesher  
9 was recovered, and -- and where is it now?

10 Second question: You mentioned a full  
11 assessment that was done in 2012. Where's the final  
12 report for that full assessment? Is it available to  
13 the public?

14 When you mentioned the full assessment  
15 that happened in 2012, you said you went back to look  
16 at some sites that were discovered to check them more  
17 thoroughly and to also check underground. I'm curious  
18 about what kind of methodology was used to check  
19 underground for archaeological sites, particularly  
20 grave sites.

21 And then you mentioned in the future  
22 that there would be a plan regarding archae --  
23 archaeology and that if any mitigation were to occur,  
24 it would be with the involvement of the Prince of  
25 Wales Heritage Centre and -- and by their approval.

1                   And I just wanted to say that the  
2 Akaitcho Dene First Nations have to be involved in  
3 developing that plan and also in approving any  
4 mitigation measures. It's my understanding that the  
5 Prince of Wales Heritage Centre, part of the way they  
6 work is -- is that they will give you a licence to  
7 document anything that you discover, like with the GPS  
8 and take photos of it. And once that's done, then  
9 it's okay to destroy it. And that's not acceptable  
10 for the Akaitcho Dene First Nations.

11                   Those are my questions.

12                   MR. DAVID SWISHER: David Swisher,  
13 with Avalon. Thanks for that, Stephanie. I think  
14 I'll just answer your last question first, if that's  
15 okay. I agree with you. I think the -- the plan  
16 right now, particularly in the commitments we've made  
17 with our Aboriginal partners, is that they are  
18 involved at each step and that they do have a say on  
19 the -- the plan itself, and that they are one (1) of  
20 the first that are -- are contacted. And -- and you  
21 can find that in the confidential information that's  
22 in -- in either of the Akaitcho communities in those  
23 agreements. So that -- that is, yeah, in there. So  
24 we agree on that.

25                   Going back to the -- the bone flesher

1 that was found in 1988, I believe all the artifacts  
2 that were found in 1988 actually now are in the Prince  
3 of Wales Heritage Centre. I'd have to go back and  
4 look at the 1988 report, but I believe they -- I know  
5 that they took them off site, and I believe they're at  
6 the Heritage Centre there.

7                   The 2012, final report, there is no  
8 final report yet. That -- the -- the survey was just  
9 recently done, I think about a month ago. We do have  
10 a summary page that I'd be glad to provide to the  
11 Review Board for posting on the registry that -- that  
12 would, I think, help confirm some of the presentation  
13 there and provide a little bit more background for  
14 you.

15                   So I can certainly do that. I'm not an  
16 archeologist when they talk about the underground, but  
17 I do know that they -- I believe they are digging in  
18 areas down to the hard bedrock to actually per -- in  
19 zones of areas that are identified as -- as higher  
20 possible zones to make sure that they've covered that  
21 whole area, because over -- over, you know, hundreds  
22 or thousands of years, you get sediment buildup that  
23 could bury certain things. And I think that's what is  
24 meant by the -- the underground portion. Thank you.

25                   MS. STEPHANIE POOLE: Stephanie Poole,

1 Akaitcho IMA Office. You've offered to submit a final  
2 archeological assessment report summary to the public  
3 registry, which is fine. But I wonder, when will the  
4 final report be ready, and will that be submitted to  
5 the public registry prior to technical report  
6 submissions in this EA process?

7 MR. DAVID SWISHER: It's David  
8 Swisher, with Avalon. Those reports take a long time  
9 to develop. And -- and we did look into that, which  
10 is why we were able to get a summary. But in terms of  
11 the full report, we're told that we won't receive that  
12 until sometime early next year. So I -- we'll  
13 certainly make that available to our Aboriginal  
14 partners -- communities as soon as that's available.  
15 Thank you.

16 MS. STEPHANIE POOLE: Stephanie Poole,  
17 Akaitcho IMA. So just for the record, it sounds like  
18 you don't know when that report will be ready to be  
19 shared with other parties. Is that correct?

20 MR. DAVID SWISHER: David Swisher,  
21 with Avalon. I can -- I can pull up the  
22 correspondence, because I did inquire about that, and  
23 -- and forward the correspondence to the Review Board.  
24 But the indication is it's going to be a -- a while  
25 before they will have the -- the final report



1 completed for us.

2 MS. STEPHANIE POOLE: Stephanie Poole,  
3 Akaitcho IMA Office. Just in regards to the -- any  
4 assessment or surveys that were done in regards to  
5 looking for things underground, it sounds like the  
6 focus of the work was just to look for, perhaps, small  
7 items or artifacts underground.

8 But what I'm interested in and  
9 requesting is information on any work that was done in  
10 trying to identify historical burial sites. I would  
11 say that the discoveries that have been made so far on  
12 site would lead me to believe that is quite possible  
13 that there could be burial sites there. It looks  
14 likes the Dene were living there and working there.

15 And so it -- it could be possible, and  
16 the Akaitcho Dene First Nations would like information  
17 on how you have investigated in that regard.

18 MR. DAVID SWISHER: David Swisher,  
19 with Avalon. Yeah, we can provide the -- the final  
20 2011 report that actually is more of the -- the  
21 initial report that is follow-up to the 1988, and that  
22 information would be contained in there. So we'd be  
23 glad to provide that. I thought that was actually  
24 provided already to the Board, but if not, we can --  
25 we can provide it to you. Thank you.

1 THE FACILITATOR HAYDEN: This is  
2 Shannon with the Review Board. I think there were a  
3 couple of homework items that might have come up  
4 there, and they would probably be completed pretty  
5 quickly. Yep, go ahead.

6 MR. DAVID SWISHER: Yes, homework,  
7 because I can provide those before we leave. So the  
8 first one (1) being the -- provide the Board with the  
9 2011 archeological final report.

10 MR. SIMON TOOGOOD: All right. Simon  
11 Toogood with the Review Board. I have this as an  
12 undertaking for Avalon to provide the -- sorry,  
13 homework, my apologies, as homework for Avalon to  
14 provide the 2011 archeological report. That would be  
15 the final -- sorry, for Avalon to provide the final  
16 2011 archeological report. Is that correct?

17 MR. DAVID SWISHER: That's correct.  
18 The second homework item is to provide the Review  
19 Board with the 2012 archeological summary.

20 MR. SIMON TOOGOOD: All right. Simon  
21 Toogood with the Review Board. I have homework for  
22 Avalon to provide the Review Board with the 2011 --  
23 sorry, with the 2012 archeological summary.

24 MR. DAVID SWISHER: David Swisher with  
25 Avalon. The 2012 archaeological survey summary.

1 Thank you.

2 MR. SIMON TOOGOOD: All right. Simon  
3 Toogood, with the Review Board. To clarify:

4 "Avalon to provide the Review Board  
5 with the 2012 archaeological survey  
6 summary."

7 MR. DAVID SWISHER: Yes, thank you.

8 THE FACILITATOR HAYDEN: Shannon with  
9 the Review Board. Thanks, David. Stephanie, does  
10 that address some of your requests?

11 MS. STEPHANIE POOLE: Thank you.  
12 Stephanie Poole, Akaitcho IMA office. I believe there  
13 was also a commitment to provide the 2012 final  
14 assessment report once it's available, although we  
15 don't know when that will be. So I guess that's just  
16 a commitment.

17 And you're saying that the work done to  
18 investigate any possible burial sites would be found  
19 in the 2011 report? Is that what you're saying to me?

20 MR. DAVID SWISHER: Yes. David  
21 Swisher. The methodology and -- and how they went  
22 about all their surveys in investigating all potential  
23 items, including potential burial grounds, that sort  
24 of thing, is all contained in the 2000 -- should be  
25 contained in the 2011 report that I'll be posting.

1 Thank you.

2 THE FACILITATOR HAYDEN: Okay.

3 Shannon with the Review Board again. Thanks for that,  
4 David. Are there any other questions for  
5 archaeological and heritage resources at the Avalon  
6 site?

7 Can I check to see if Victoria's on the  
8 line still and if there's any comments for  
9 archaeological and heritage resources?

10 MS. VICTORIA ST. JOHN: Hi. Yes, I'm  
11 still on -- on the line. No, not at this time. I  
12 have no questions. Thank you.

13 THE FACILITATOR HAYDEN: Okay.  
14 Thanks.

15 THE FACILITATOR MERCREDI: Okay. If  
16 there are no further questions, we will review the  
17 undertakings and commitments and bring the technical  
18 session to a close. So by a show of hands, unless  
19 there is anybody objecting to that decision, we'll  
20 move to close.

21 So before we -- before we break, we'll  
22 have Simon read out the undertakings and commitments,  
23 as these are -- are some of the outstanding tasks that  
24 relate to some of the topics that were discussed  
25 today. So, with that, unless there were anything

1 further, any further comments from -- from Avalon on -  
2 - on any topics from the agenda.

3 MR. DAVID SWISHER: No further  
4 comments. David Swisher. Thank you.

5

6 REVIEW OF TASKS FOR DEVELOPER OR PARTIES:

7 THE FACILITATOR MERCREDI: Very well.  
8 Simon, if we could have a reading of the commitments  
9 and undertakings. Thank you.

10 MR. SIMON TOOGOOD: Hi. Simon Toogood  
11 with the Review Board. I'll start with commitments.  
12 Day 1, Commitment number 1:

13 "Should Avalon propose alternate  
14 agents from those proposed in the  
15 DAR for the Nechalacho flotation  
16 plant, Avalon will notify the Review  
17 Board prior to the public registry  
18 for Avalon's Thor Lake Rare Earth  
19 Elements Project being closed."

20 Number 2, from day 2:

21 "Avalon to provide information at  
22 the Pine Point site on modelling of  
23 the contaminant plume stemming from  
24 the discharge of effluent to the  
25 aquifer, including a plume diagram."

1                   Commitment number 3, from day 3:

2                   "Avalon commits to a contingency of  
3                   placing a tailings cover during the  
4                   winter and designing it sufficiently  
5                   to maintain long-term stability,  
6                   including summer thaw periods, for  
7                   the L-37 tailing facility."

8                   Commitment number 4:

9                   "Avalon commits to monitoring  
10                  tailings during operations within  
11                  the L-37 tailings facility to  
12                  confirm the saturation levels and  
13                  ensure trafficability for closure  
14                  and placement of the cover."

15                  Number 5:

16                  "Avalon commits to a contingency of  
17                  placing a tailings cover during the  
18                  winter and designing it sufficiently  
19                  to maintain long-term stability,  
20                  including summer thaw periods, for  
21                  the Nechalacho tailings facility."

22                  Number 6:

23                  "Avalon commits to monitoring  
24                  tailings during operations within  
25                  the Nechalacho tailings facility to

1 confirm saturation levels and ensure  
2 trafficability for closure and  
3 placement of the cover."

4 Number 7:

5 "Avalon commits, during operations,  
6 to implement monitoring to verify  
7 the modelling predictions of the  
8 effluent plume down gradient of the  
9 L-37 tailings facility, assess the  
10 modelling parameters, and, if there  
11 are deviations, initiate the  
12 mitigation, if required."

13 Commitment number 8:

14 "Avalon commits to consulting with  
15 Environment Canada and GNWT/ENR to  
16 develop and implement an  
17 incineration management plan that  
18 incorporates the information in the  
19 Environment Canada technical  
20 document on batch waste incineration  
21 management."

22 Number 9:

23 "Avalon commits to continuous  
24 monitoring of sulphur dioxide for  
25 one (1) year within the fence line

1 at the Thor Lake mine side and  
2 hydrometallurgical plant sites."

3 Number 10:

4 "Avalon commits to developing an air  
5 quality monitoring and management  
6 plan in consultation with ENR and  
7 Environment Canada, including but  
8 not limited to stock testing and SO2  
9 and TSP monitoring."

10 We move on to undertakings. Number 1:

11 "Requested -- request for updated  
12 water balance for the Thor Lake site  
13 showing flows and reflecting changes  
14 in the project, as shown in figure  
15 4.7-10 of the DAR."

16 Number 2:

17 "Avalon to provide an updated  
18 commitment table."

19 Number 3:

20 "Avalon to provide MSDS sheets for  
21 reagents listed in Table 4.7.2.4 of  
22 the DAR and any other reagents  
23 proposed at the Thor Lake or Pine  
24 Point sites."

25 Number 4:



1 "Avalon will provide, in bullet  
2 format, the backup data, parameters,  
3 and assumptions used for the  
4 calculations for homework item  
5 number 5, including volume number,  
6 source of flow, and concentration."

7 Number 5:

8 "Avalon to provide a single map  
9 showing the entire proposed zone of  
10 influence for the Avalon project,  
11 including Thor Lake, Pine Point, and  
12 transportation corridors."

13 Number 6:

14 "Avalon to identify how traditional  
15 knowledge was used and incorporated  
16 into the DAR and how traditional  
17 knowledge was used in the design of  
18 the proposed project. And the  
19 caveat to that: When being within  
20 the limits of existing  
21 confidentiality agreements."

22 Number 7:

23 "Avalon to provide the elevation of  
24 the operating level of the polishing  
25 pond within the Nechalacho site

1 tailings facility at the year 20 of  
2 operations."

3 Number 8:

4 "Avalon to provide the associated  
5 capacity and retention time of the  
6 polishing pond within the Nechalacho  
7 site tailings facility at year 20 of  
8 operations."

9 And that is it for commitments and  
10 undertakings.

11 THE FACILITATOR MERCREDI: Thank you,  
12 Simon. And --

13 UNIDENTIFIED SPEAKER: And one (1)  
14 question. Excuse me. Could you do number 4 again for  
15 me, please?

16 MR. SIMON TOOGOOD: Yep. Number 4 for  
17 undertakings was:

18 "Avalon will provide, in bullet  
19 format, the backup data, parameters,  
20 and assumptions used for the  
21 calculations from homework item  
22 number 5, including volume number,  
23 source of flow, and concentration."

24 UNIDENTIFIED SPEAKER: Thank you. No  
25 more questions.

1 THE FACILITATOR MERCREDI: Thank you.

2 With that, a -- just on -- a note on the commitments

3 and undertakings, those will be posted, along with the

4 transcripts and other information that Avalon has

5 produced that might not have been posted as of yet.

6 That will be posted to the registry by next week.

7 Early next week is my goal.

8 So if there -- we'll go to the -- one

9 (1) last time to the teleconference line for any

10 further questions before we close for the -- for the

11 week.

12 MS. VICTORIA ST. JOHN: No further

13 questions, Victoria St. John, KFN. Thank you.

14 THE FACILITATOR MERCREDI: Thank you,

15 Victoria.

16 Does Avalon have any final comments for

17 the technical session before we close?

18 MR. DAVID SWISHER: David Swisher,

19 with Avalon. I think it's been a long four (4) days,

20 and I appreciate everybody's comments. And we'll

21 certainly endeavour to -- to complete the undertakings

22 as quickly as possible. So, thank you.

23 THE FACILITATOR MERCREDI: Thank you.

24 And, Shafic...?

25 MR. SHAFIC KHOURI: Shafic, ENR.

1 Simon, would you be able to repeat the commitment on  
2 updating -- providing -- Avalon providing an updated  
3 commitments table, please and thank you?

4 MR. SIMON TOOGOOD: All right. Simon,  
5 with the Review Board. I have Undertaking number 2:

6 "Avalon to provide an updated  
7 commitments table."

8 MR. SHAFIC KHOURI: Shafic, ENR.  
9 Thank you, Simon. Could -- would Avalon please be  
10 able to confirm whether that commitments table would  
11 have both biophysical and socioeconomic compiled into  
12 that one table of commitments? Thank you.

13 THE FACILITATOR MERCREDI: As it  
14 relates to the overall project, that's -- that was my  
15 understanding of it, but if there was anything  
16 different on that --

17 MR. DAVID SWISHER: David Swisher,  
18 Avalon. No, you're correct, Paul. It's -- it's the  
19 overall project.

20 THE FACILITATOR MERCREDI: Very well.  
21 Okay. At this point, I'll open up the floor for any  
22 further comments or questions before I close.

23 If -- I'm not seeing anything, so, with  
24 that, I'd like to thank everyone for participating,  
25 all parties. The Review Board appreciates the

1 evidence that's been submitted within this technical  
2 session. I'd like to thank Avalon for making  
3 available their team members and technical advisors  
4 for the -- for the benefit of the parties to the  
5 environmental assessment, and also for the Review  
6 Board.

7 At -- and stay tuned to the public  
8 registry for information on further steps in -- in the  
9 process -- or, sorry, next steps in the process.

10 And, with that, yes, it has been a long  
11 but, I feel, a productive week. So I'd like to thank  
12 all participants and Avalon. And I -- I could not  
13 have done this without the help of my colleagues, so I  
14 do have to recognize Shannon, Simon, Stacey, and  
15 Cailin, as well as our sound tech, Mark, I believe it  
16 is.

17 GEORGE: George.

18 THE FACILITATOR MERCREDI: George.

19 Okay. Well --

20 GEORGE: Don't worry about it.

21 THE FACILITATOR MERCREDI: -- my face  
22 red. Okay. With that, thank you again, everyone, for  
23 -- for participating, and if you have any questions,  
24 feel free to contact me at the Review Board. Thank  
25 you again.

1

2 --- Upon adjourning

3

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5 Certified Correct,

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11 Wendy Warnock, Ms.

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---	---	---	--	--

<b>advice</b> 18:12 21:8	15:6,15 17:9	<b>annual</b> 55:1	53:2 84:25	64:18,20,2
<b>advisors</b> 85:3	24:7,16,17 26:3 28:14	<b>annually</b> 53:21	<b>apprenticeship</b> 58:5	1 65:16,21 66:3
<b>Affairs</b> 12:10	31:6,16,19 34:17,18	<b>answer</b> 24:6 55:3	<b>appropriate</b> 19:22 20:7	67:14,21,2 3 68:1,2 71:21
<b>affected</b> 42:8	42:18,23 43:3,12	59:11,17 70:14	<b>appropriately</b> 19:20,21 24:13	<b>areas</b> 14:9,12 65:15,19 66:20 71:18,19
<b>afternoon</b> 62:24,25	44:8 45:11 46:2,12	<b>answered</b> 58:7	<b>approval</b> 68:19 69:25	<b>aren't</b> 14:3,13
<b>agenda</b> 9:7 10:12 50:8 51:4 60:5,23 77:2	<b>airtight</b> 36:19	<b>anybody</b> 9:19 56:17 62:5,13 76:19	<b>approve</b> 21:2 <b>approving</b> 70:3	<b>artifacts</b> 66:11 67:19 68:5 71:1 73:7
<b>agents</b> 77:14	<b>Akaitcho</b> 12:1 63:23 69:6	<b>anyone</b> 62:10	<b>aquifer</b> 77:25	<b>assess</b> 79:9
<b>ago</b> 43:21 46:22 71:9	70:2,10,22 72:1,17 73:3,16 75:12	<b>anything</b> 29:3 51:6,19 55:25	<b>archae</b> 69:22 <b>ARCHAEOLOGICAL</b> L 64:6	<b>assessed</b> 13:22 14:15
<b>agreed</b> 56:24	<b>Albert</b> 3:20 11:10	62:7,25 70:7 76:25 84:15,23	<b>archaeologic</b> <b>al</b> 6:14 9:10 64:25 68:9,10,16 ,25 69:19 74:25 75:5 76:5,9	<b>assessment</b> 13:21 14:6 24:18 29:21 34:17 55:1 63:11 67:13 69:11,12,1 4 72:2 73:4 75:14 85:5
<b>agreements</b> 55:8 56:21 70:23 81:21	<b>Alberta</b> 14:4 16:9	<b>anyway</b> 36:10 54:15	<b>archaeologis</b> <b>t</b> 68:2	<b>assessments</b> 68:9
<b>ahead</b> 74:5	<b>allowing</b> 44:24	<b>anywhere</b> 39:18	<b>archaeology</b> 69:23	<b>associated</b> 82:4
<b>Aileen</b> 3:21 11:8 19:9 20:15 24:6,10 25:20 27:8,16 30:2,15 32:8 33:1 34:4 36:11 39:7,25 41:19 42:15 43:9,10 44:15 45:4,6,19 47:8 48:11 49:1	<b>already</b> 10:1 26:6 34:15 37:6,16 43:14 48:14 55:16 73:24	<b>AP-42</b> 28:21 <b>apologies</b> 74:13	<b>archeologica</b> <b>l</b> 60:24 62:5 72:2 74:9,14,16 ,19,23	<b>assume</b> 42:24 54:14
<b>air</b> 6:8 7:11 9:8 10:9 12:23 13:14,17,2 1 14:6,14,24	<b>alternate</b> 77:13	<b>apologize</b> 34:15 59:8	<b>archeologist</b> 71:16	<b>assumed</b> 15:9
	<b>ambient</b> 14:24 15:6 17:9 31:16	<b>appear</b> 67:5 <b>APPEARANCES</b> 2:1 3:1 4:1 5:1	<b>archeologist</b> <b>s</b> 66:15	<b>assuming</b> 16:14
	<b>amount</b> 30:7,19 39:10	<b>appears</b> 61:16 63:13	<b>archeology</b> 63:25 64:10,16	<b>assumption</b> 39:12,14
	<b>Amy</b> 3:14 12:4	<b>applied</b> 15:8	<b>area</b> 26:21 31:9 35:22 54:21	<b>assumptions</b> 81:3 82:20
	<b>angle</b> 30:23	<b>apply</b> 36:1 <b>appreciate</b> 20:4 83:20		<b>attract</b>
	<b>Anne</b> 3:24	<b>appreciates</b>		



57:21	16,17	<b>balance</b>	7 73:12	19,21,22
<b>August</b> 1:20	59:4,10	80:12	75:12	75:3,4,9
53:1 54:3	60:8,15	<b>Ball</b> 3:22	85:15	76:3
<b>available</b>	61:22	<b>barge</b> 35:22	<b>benefit</b> 59:6	77:11,17
9:16 51:17	62:14,17,2	64:21 68:2	85:4	84:5,25
54:19	1 63:24	<b>barging</b>	<b>benefits</b>	85:6,24
57:22	64:6,9,24	67:14,21,2	53:3,18	<b>bone</b> 66:14
69:12	68:6,8,25	2 68:1	54:16	69:8 70:25
72:13,14	70:13	<b>bas</b> 18:16	<b>benign</b> 40:3	<b>Bourque</b> 3:20
75:14 85:3	72:8,21	<b>based</b>	<b>Bernard</b> 3:12	11:10
<b>Avalon</b> 1:5	73:19	14:21,25	<b>best</b>	<b>break</b>
2:12	74:12,13,1	28:21	23:21,22	50:11,14,1
7:3,10,16	5,22,25	30:5,10,11	41:1	5,23 51:1
9:4,14,18	75:4 76:5	31:10	<b>bet</b>	76:21
11:13,15,1	77:1,13,16	41:17	61:7,9,15	<b>breakdown</b>
7,19	,21	42:10	<b>beyond</b>	53:19
13:1,16	78:2,9,16,	<b>baseline</b>	32:6,7	59:15
18:4,19	23	33:24 44:2	33:16	<b>brief</b> 13:20
19:1	79:5,14,23	<b>basically</b>	<b>bids</b> 54:24	29:5 60:1
20:4,21	80:4,17,20	20:2 24:19	<b>biface</b> 66:13	<b>bring</b> 10:6
21:2,6,12,	81:1,8,10,	37:3,24	<b>biophysical</b>	61:21
17	14,23	<b>basis</b> 68:18	84:11	76:17
22:8,18,21	82:4,18	<b>batch</b> 7:8	<b>bit</b> 64:15	<b>bringing</b>
23:11,17,2	83:4,16,19	18:13,16	71:13	53:3
0 25:6	84:2,6,9,1	19:19	<b>Blackford</b>	<b>Brittany</b>
26:18 28:7	8 85:2,12	21:9,23	3:3	3:13 12:2
29:13,16	<b>Avalon's</b> 9:5	22:4,13	<b>board</b> 1:2	51:23
30:9	44:16 53:4	23:5 48:24	9:16	52:19
31:5,8	54:7 59:14	79:20	10:7,18	54:10
33:10,13	77:18	<b>batches</b>	11:1,3,5,2	55:21 56:3
35:10	<b>averaged</b>	19:20	1 12:12	57:5 58:9
36:25	33:6	<b>bays</b> 36:17	20:23	59:19
40:19	<b>avoidable</b>	<b>BC</b> 14:4,14	21:15 22:6	<b>brought</b>
41:25	67:5	16:4,9	23:17	24:11
43:7,12,17	<b>avoidance</b>	<b>Beck</b> 3:15	24:11	<b>Bubar</b> 2:13
,23	68:20	<b>becoming</b>	33:10	<b>building</b>
44:8,19	<b>avoids</b> 37:24	24:12	43:19 44:6	28:3 34:25
45:1,5,8,1	<hr/>	<b>bedrock</b>	46:1 47:1	37:8 38:23
1,20,23	<hr/> B <hr/>	71:18	48:16	<b>buildup</b>
46:2,9,11	<b>background</b>	<b>beginning</b>	51:15,18	71:22
47:2,10,14	64:16	37:1	56:3 58:10	<b>bulk</b> 38:12
,22,24	66:16	<b>believe</b> 13:5	59:12,22	<b>bullet</b> 81:1
48:18 49:6	71:13	18:21 37:5	68:24	82:18
51:5,8,10	<b>backup</b> 81:2	60:14	71:11	<b>burial</b>
52:6,10,22	82:19	71:1,4,5,1	72:23	73:10,13
53:2,21	<b>bag-house</b>		73:24	
54:1,3,8,1	35:1		74:2,8,11,	
6,20,25	<b>bags</b> 36:21			
55:3,10,14				
,17 56:24				
57:3,7,14,				

75:18,23	47:8	71:15	64:2 77:19	53:21
<b>bury</b> 71:23	<b>captured</b>	72:13	<b>closely</b>	54:7,25
<b>business</b>	26:25	83:21	10:12	<b>commitment</b>
52:4 55:1	29:20	<b>Certificate</b>	<b>closure</b>	18:15
<b>businesses</b>	<b>capturing</b>	6:21	78:13 79:2	20:10,24
53:15	46:23	<b>Certified</b>	<b>CN</b> 38:21	21:2,15
54:17,18,2	<b>carbon</b> 13:24	86:5	<b>colleague</b>	22:21
2	15:17	<b>cetera</b> 31:4	10:19	43:11,23
	<b>care</b> 35:19	<b>change</b> 29:20	13:18	44:4,7,14
<hr/>	<b>careful</b> 67:8	65:1	<b>colleagues</b>	45:8
<b>C</b>	<b>Carey</b> 4:18	<b>changed</b>	85:13	46:11,22
<b>Cailin</b> 2:7	<b>carried</b>	39:11	<b>collect</b>	47:24
11:20	19:22	<b>changes</b>	10:18	48:14,16
85:15	<b>cars</b> 38:25	80:13	<b>collected</b>	75:13,16
<b>cake</b> 38:17	<b>Casas</b> 2:10	<b>check</b> 56:5	66:12	77:12
<b>calculations</b>	<b>case</b> 15:10	69:16,17,1	<b>collection</b>	78:1,8
81:4 82:21	29:23	8 76:7	35:1	79:13
<b>calendar</b>	35:20	<b>Chuck</b> 2:4	<b>com</b> 29:3	80:18 84:1
53:23	<b>catch</b> 32:23	<b>circles</b> 67:1	<b>comes</b> 19:5	<b>commitments</b>
<b>camp</b> 66:9	<b>categories</b>	<b>circuit</b>	55:25	6:3 7:1
<b>Canada</b> 3:24	58:18	<b>clarificatio</b>	<b>comfortable</b>	53:3,14
4:3,4,25	<b>category</b>	<b>n</b> 20:4	33:15,21	54:20
7:8,13	53:23	26:2 27:22	<b>coming</b> 27:20	55:20
11:7	<b>caucus</b>	32:9 34:11	28:3,5,9	70:16
17:18,20	29:14,16	36:12 39:8	30:20	76:17,22
18:10	61:13	41:20	63:13	77:8,11
19:14	<b>caucuses</b>	42:16	<b>commencing</b>	82:9 83:2
20:25	61:16	<b>clarify</b> 18:1	9:1	84:3,7,10,
21:4,18,23	<b>caucusing</b>	27:17 30:3	<b>comment</b> 27:4	12
22:1,3,13	45:1	43:1 50:2	28:20 31:5	<b>commits</b>
23:3,10	<b>caveat</b> 81:19	75:3	51:8	7:3,10,16
25:25	<b>C-cans</b> 36:18	<b>clarity</b>	<b>commenting</b>	21:17
44:11	<b>Centre</b> 61:18	56:19	19:8	22:8,21
45:14	68:20	<b>clauses</b>	<b>comments</b> 6:5	44:8 45:11
46:5,16	69:25 70:5	53:10	13:2 41:23	46:2,11
48:19,23	71:3,6	<b>clear</b> 34:13	76:8	47:2,14,24
79:15,19	<b>certain</b>	52:23 59:7	77:1,4	48:18
80:7	52:16	<b>clearly</b> 9:22	83:16,20	78:2,9,16,
<b>Canada's</b>	55:15	17:2	84:22	23
19:18	71:23	<b>close</b> 63:13	<b>commissionin</b>	79:5,14,23
<b>Canadian</b>	<b>certainly</b>	76:18,20	<b>g</b> 25:1,23	80:4
23:13,14	15:2 18:24	83:10,17	42:25	<b>committed</b>
<b>capacity</b>	19:6 28:22	84:22	<b>commit</b> 17:25	20:11
82:5		<b>closed</b> 62:12	20:11 21:6	<b>committing</b>
<b>capture</b>			36:5 47:10	36:6 68:6
43:22				<b>common</b> 53:5
44:13,23,2				<b>communities</b>
4 45:18				36:10
				56:25

57:21,22,2 4 58:14 70:22 72:14 <b>companies</b> 53:19 <b>company</b> 24:19 <b>compare</b> 29:3 <b>compared</b> 14:4 28:24 <b>competitive</b> 53:9 <b>compiled</b> 84:11 <b>complete</b> 9:17 67:8 83:21 <b>completed</b> 73:1 74:4 <b>completely</b> 41:15 <b>completing</b> 23:11 <b>complex</b> 19:25 <b>compliance</b> 23:13 <b>comply</b> 19:6 <b>comprehensiv e</b> 25:9 <b>comprised</b> 66:25 <b>con</b> 38:13 59:23 <b>concentrate</b> 36:20,21,2 3 37:4 <b>concentratio n</b> 15:12 81:6 82:23 <b>concentratio ns</b> 14:8 16:6	17:3,9 <b>conceptual</b> 18:20 20:13 23:23 <b>concern</b> 28:15 40:1 44:24 46:21 47:8 <b>concerned</b> 27:2 63:12 <b>concerns</b> 53:6,9 61:21 <b>conduct</b> 28:11 31:9 <b>conducted</b> 20:17 24:23 68:9 <b>conference</b> 13:5 <b>confidential</b> 70:21 <b>confidential ity</b> 81:21 <b>confirm</b> 43:7 52:4,7 71:12 78:12 79:1 84:10 <b>confirmation</b> 52:20 54:22 56:23 65:4 <b>confirmed</b> 26:4 <b>connect</b> 34:25 <b>Connelly</b> 4:22 <b>consider</b> 43:25 <b>considered</b> 26:12 27:10,14	33:6 34:21 67:20 <b>considering</b> 52:13 65:4 <b>consisted</b> 14:7 <b>construction</b> 58:1,3 68:17 <b>consult</b> 23:18 <b>consultation</b> 7:12 20:17 43:4,13 44:10 45:13 46:4,14 80:6 <b>consulting</b> 7:3 21:6,17 22:8,22 48:18 79:14 <b>Con't</b> 3:1 4:1 5:1 <b>contact</b> 61:17,20 85:24 <b>contacted</b> 70:20 <b>contain</b> 40:22 <b>contained</b> 38:2 41:21 42:4 66:12 73:22 75:24,25 <b>containers</b> 35:21 37:3,8,9,1 2,14,20,21 38:5 <b>containing</b> 26:22 <b>contains</b>	38:4 <b>contaminant</b> 27:19 40:6 41:22 77:23 <b>contaminants</b> 13:22 31:19 <b>content</b> 37:6 38:9,14 41:2 <b>CONTENTS</b> 6:1 <b>context</b> 58:11 <b>contingency</b> 78:2,16 <b>continued</b> 68:15 <b>CONTINUES</b> 23:8 <b>continuous</b> 7:16 47:2,14,25 79:23 <b>contract</b> 54:24 56:22 <b>control</b> 34:19 <b>controlled</b> 36:14 52:6 <b>conveyed</b> 35:13 <b>conveyor</b> 34:24 36:17 <b>Corporation</b> 12:1 <b>correct</b> 22:15 28:8 32:22 48:14 55:3 72:19 74:16,17 84:18 86:5	<b>corresponden ce</b> 51:9 54:2 72:22,23 <b>corridors</b> 81:12 <b>cost</b> 41:17 <b>costs</b> 41:16,18 <b>couple</b> 12:17 56:20 74:3 <b>course</b> 33:24 35:11 58:4 67:2 <b>cover</b> 34:24 36:23 78:3,14,17 79:3 <b>covered</b> 26:6 35:23 36:17 71:20 <b>covered/ice</b> 35:23 <b>covers</b> 39:2 <b>crest</b> 66:5 <b>crews</b> 68:4 <b>criteria</b> 27:19 31:19 <b>crossed</b> 34:6 <b>CSR</b> 55:14 59:11,13 <b>culture</b> 9:9 60:7,12,22 <b>Cumming</b> 2:16 11:12 <b>curious</b> 30:16 69:17 <b>current</b> 59:3,15 <b>currently</b> 35:7 55:17
--	--	---	---	--

<b>customers</b> 41:5 <b>CWS</b> 4:4 <hr/> <b>D</b> <hr/> <b>DAR</b> 16:3 17:1 31:15 56:20 57:6 59:2 77:15 80:15,22 81:16 <b>data</b> 30:11 67:17 68:21 81:2 82:19 <b>date</b> 32:5 48:9 <b>David</b> 2:12 4:22 11:16 13:15 18:3,18,19 19:1 20:3,20 23:19 26:17 28:6 29:7,15 30:8 31:7 33:12 35:9 36:24 39:13 40:23,25 41:24 43:6,16 44:18 45:22 46:8 47:9,20,21 49:5 51:7 52:9 53:25 55:2 57:2,13 59:9 64:4,8 70:12 72:7,20 73:18 74:6,17,24 75:7,9,20 76:4 77:3,4 83:18	84:17 <b>day</b> 1:21 29:22,25 30:5,12 32:21,24 33:4,5 62:9 77:12,20 78:1 <b>days</b> 34:16 83:19 <b>decide</b> 17:24 <b>decision</b> 14:22 76:19 <b>decreased</b> 17:3 <b>deemed</b> 66:1 <b>definitely</b> 27:17 32:5 47:11 <b>delivering</b> 41:6 <b>Dene</b> 70:2,10 73:14,16 <b>Department</b> 2:22 <b>dependent</b> 14:24 <b>depending</b> 52:16 <b>depends</b> 39:15 <b>deposit</b> 42:3 <b>DESCRIPTION</b> 7:2 8:2 <b>design</b> 20:9 24:2,3 39:22 81:17 <b>designed</b> 19:14 24:13 37:11 68:18	<b>designing</b> 78:4,18 <b>designs</b> 39:17 <b>destination</b> 41:12 <b>destroy</b> 70:9 <b>detailed</b> 67:8 <b>details</b> 54:5 55:8 57:9 <b>determined</b> 54:6 64:24 <b>develop</b> 7:4 21:7,19 22:9,24 43:12 48:20 64:12 72:9 79:16 <b>developed</b> 43:4 <b>developer</b> 6:18 10:11 77:6 <b>developers</b> 58:20 <b>developing</b> 7:10 20:11,12 44:8 45:11 46:2,12 70:3 80:4 <b>development</b> 66:21 <b>deviations</b> 79:11 <b>diagram</b> 77:25 <b>diameter</b> 14:1 <b>Dianna</b> 3:15 <b>diesel</b> 15:15 24:24 42:23	<b>different</b> 14:20 84:16 <b>difficult</b> 33:2 <b>digging</b> 71:17 <b>dioxide</b> 7:17 13:24 26:8 42:20 47:15 48:1 79:24 <b>dioxin</b> 19:14 23:13 <b>disagreement</b> <b>s</b> 10:13 <b>discharge</b> 77:24 <b>discount</b> 41:9 <b>discover</b> 67:22 70:7 <b>discovered</b> 69:16 <b>discoveries</b> 73:11 <b>discuss</b> 34:1 53:8 <b>discussed</b> 51:14 52:6 54:5 55:9 76:24 <b>discussing</b> 55:18 60:6 <b>discussion</b> 17:21 18:4 43:20 52:3 54:13 <b>discussions</b> 10:5 33:13 41:10 55:5,7,24 <b>dispersion</b> 14:13 16:9 24:22	27:14 <b>distance</b> 17:4 <b>distant</b> 14:10 <b>distribution</b> 17:2 59:16 <b>disturbed</b> 68:11 <b>DKFN</b> 4:13 <b>dock</b> 65:22 66:3 <b>docking</b> 65:16 <b>document</b> 7:8 18:13,17 19:19 21:9 22:1,4,13 23:4 48:24 51:17 59:12,13,1 4 70:7 79:20 <b>documented</b> 65:24 <b>Dods</b> 3:8 <b>Donald</b> 2:13 <b>done</b> 13:20 16:3 25:23,25 29:21 31:18 37:3 42:12 64:16 65:5 69:11 70:8 71:9 73:4,9 75:17 85:13 <b>double</b> 28:22 <b>double-checking</b> 29:17 <b>download</b> 55:14
---	--	--	---	---

<b>downstream</b> 41:5	77:18	16:1 19:15	13	<b>equipment</b> 35:3,4
<b>drilling</b> 42:12	<b>earths</b> 38:5	26:7,12,15	44:10,16	<b>escape</b> 40:11
<b>driving</b> 40:9	<b>easy</b> 10:21	27:9,10,13 ,22,24	45:7,13,20	<b>essentially</b> 15:4
<b>dry</b> 35:25 38:8 39:3 41:10,17	<b>EBA</b> 2:17,18	28:1,5,23	48:12 49:2	<b>establish</b> 44:2
<b>dryer</b> 26:15	<b>EC</b> 18:8,12 20:17 21:7,9 22:3 23:24 43:13	30:17,19,2 1 31:2 34:22 49:13 50:7	80:6 83:25 84:8 <b>ENR/GNWT</b> 61:25	<b>estimated</b> 16:1
<b>drying</b> 38:19 41:11,15	<b>ECR</b> 19:10	<b>emitted</b> 15:12	<b>ENR's</b> 26:1	<b>estimating</b> 14:7,16
<b>dumped</b> 37:22	<b>educated</b> 68:4	<b>emitter</b> 26:20 28:17	<b>ensure</b> 23:12 24:12 68:10 78:13 79:1	<b>et</b> 31:4
<b>duplicative</b> 53:11	<b>education</b> 58:12	<b>emitting</b> 36:8	<b>ensuring</b> 36:6	<b>event</b> 34:25
<b>during</b> 31:21 34:11 35:11 36:9,18 37:14 52:11,16 53:23 58:1,3,4 68:16 78:3,10,17 ,24 79:5	<b>effect</b> 14:23 15:1 66:21	<b>employ</b> 34:23 35:8,18	<b>Enterprises</b> 4:23	<b>everybody</b> 64:9
<b>dust</b> 14:2,3 16:1 26:3 34:8,18 35:1,8,15, 18,19 36:1,6,8 39:10 40:11,22	<b>effects</b> 40:4 66:21	<b>employees</b> 58:6 59:3,4,16	<b>entertain</b> 18:7	<b>everybody's</b> 50:22 83:20
	<b>effluent</b> 77:24 79:8	<b>employment</b> 9:10 50:12 51:3 56:11 57:7 58:19,21 59:23 60:22	<b>entire</b> 81:9 <b>Env</b> 4:4	<b>everyone</b> 9:6 84:24 85:22
	<b>either</b> 15:7 35:23 47:21 49:13 70:22	<b>enclosed</b> 26:22 37:2 38:25	<b>environment</b> 3:24 4:3 7:4,7,13 11:7 17:12,18,2 0 18:10 19:18 20:25 21:4,18,23 22:1,3,9,1 2,23 23:3,10 25:25 40:5 44:11 45:14 46:5,15 48:19,23 79:15,19 80:7	<b>everything</b> 26:23 28:10,12 37:13 42:8
	<b>elaborate</b> 24:8	<b>encouraged</b> 53:4 58:22	<b>environmenta</b> 1 1:1 63:11 85:5	<b>everything's</b> 41:2
	<b>element</b> 1:4 9:5	<b>endeavour</b> 83:21	<b>envision</b> 41:15	<b>evidence</b> 10:18 85:1
	<b>elements</b> 42:9 77:19	<b>ENR</b> 3:19 7:12 11:9,11 19:10 20:16,17,2 5 23:24 25:21 27:17 30:3,16 32:9 33:2 34:5 36:12 40:1 42:16 43:2,4,11,	<b>EPA</b> 18:6	<b>example</b> 42:1
<hr/> E <hr/>	<b>elevation</b> 81:23			<b>examples</b> 18:23,24 53:14
<b>EA</b> 72:6	<b>else</b> 55:25			<b>exceedance</b> 32:1
<b>EA1011-001</b> 1:6	<b>emission</b> 23:12 25:7,14 26:9 28:21			<b>exceedances</b> 16:3,17,18 ,22 31:17,22 32:7,12,18 33:19
<b>eager</b> 58:19	<b>emissions</b> 6:8 9:8 12:23 13:14 14:7,16,17 ,25 15:5,23,24			<b>exchanges</b> 12:17
<b>earlier</b> 38:15				<b>excluded</b>
<b>early</b> 72:12 83:7				
<b>earth</b> 1:4 9:5 38:4				

17:6	21:11	fair 25:2	21:12	format 81:2
excuse 68:3	22:16	54:23	first 27:8	82:19
82:14	23:16	fall 14:2,3	36:21	forward 9:14
existing	29:12 33:9	58:17	51:4,5	17:11 50:9
66:8 81:20	43:18	features	55:6 56:21	54:12
expect 24:20	44:22	68:5	57:3	55:18,23
37:11	45:17	federal	58:12,14,2	72:23
38:18	46:20 47:7	68:12	4 59:4,6	fragments
40:14	48:8	feedback	66:1 69:8	66:13
expected	49:7,11,17	65:10	70:2,10,14	frame 32:16
32:12	,20,23	feel 33:15	,20 73:16	Fraser 3:16
expediting	50:1,5,21	59:7	74:8	free 36:22
9:18	51:16	85:11,24	Fisheries	85:24
expensive	56:2,9,14,	fence 7:18	2:23	Freeland 3:3
40:16	16 59:21	16:6,12,17	flesher	freeze 37:13
41:17	60:4,18,20	,24 17:6,8	66:14 69:8	fresh 42:7
experience	61:6,9,11,	31:21,24	70:25	Friday 12:22
15:1 16:8	63:2,9,17,	33:18,19	floatation	front 9:8
expert 24:7	20 64:3	44:1	37:1	10:16
29:8 33:13	68:23 74:1	47:4,16	floor 13:3	frozen 37:17
40:24	75:8	48:2 79:25	17:17 49:8	fugitive
experts	76:2,13,15	field	51:19 56:4	26:15
39:19	77:7 82:11	65:10,17	60:9 62:8	27:10,13,2
exploration	83:1,14,23	66:18	84:21	3 30:19
66:9	84:13,20	figure 80:14	flotation	full 22:7
exposure	85:18,21	filter	77:15	54:23
33:5,20	facilities	39:15,16	flow 25:13	67:13
extended	38:21 41:7	filters	81:6 82:23	69:10,12,1
54:17	facility	39:21	flows 80:13	4 72:11
extra 27:9	17:13	FIN 3:22	focus 73:6	fully 26:22
30:17	26:3,8	final 41:12	focussed	31:8 37:2
	28:2,13,22	42:17	27:3 64:20	38:8 59:10
	,25	69:11	followup	funding
	30:1,22	71:7,8	52:2	57:8,10,16
	32:6,7	72:1,4,25	follow-up	,17 58:23
	38:24 39:1	73:19	52:21	furan 19:15
	41:11	74:9,15	65:20	furans 23:14
	65:15,22	75:13	73:21	future 40:18
	66:6,7,24	83:16	footprint	55:7,18
	67:7,19	fine 30:17	67:6	69:2,21
	78:7,11,21	72:3	forecast	
	,25 79:9	finish	55:1	G
	82:1,7	12:15,19	foremost	gaps 67:15
	fact 27:22	54:13	55:6	gas 12:7
	37:12	finished	form 38:18	
	51:12			
	factors			
	28:21			
	Fadeke 4:3			

14:16	17	25:21	40:6	61:18 64:6
<b>gases</b> 26:24	54:3,4,11, 19	27:21	<b>having</b> 19:7	68:19
<b>Gault</b> 4:6	55:8,14,19	30:6,18	<b>Hawton</b> 2:19	69:25 70:5
5:6 11:23	,22	40:1	<b>Hayden</b> 1:13	71:3,6
56:18	61:12,16	41:20,21	2:6 10:20	76:5,9
<b>Gavin</b> 3:11	<b>GNWT/ENR</b>	42:20 43:9	11:2,3	<b>Heron</b> 4:9
12:8	79:15	56:5 59:1	12:21	<b>hesitant</b>
<b>general</b>	<b>goal</b> 20:18	60:5 69:1	17:16	36:5
39:21	83:7	75:15	20:22,23	<b>hesitate</b>
<b>generally</b>	<b>goals</b> 53:5	<b>guidelines</b>	21:11	19:2
41:3	<b>goods</b> 39:4	14:13,15	22:16	<b>Hi</b> 13:10
<b>generating</b>	53:17,20,2	15:9,11	23:16 33:9	22:5 45:10
35:15	2	16:4	43:18,19	76:10
<b>generators</b>	<b>governments</b>	<b>guys</b> 22:18	49:7	77:10
15:15	17:11	26:14	56:2,9,14,	<b>hide</b> 66:14
16:14	58:15	<hr/>	16 59:21	69:8
24:24	<b>GPS</b> 70:7	<b>half</b> 38:4	60:4,18	<b>high</b> 65:18
42:23	<b>gradient</b>	<b>half-height</b>	68:23 74:1	66:5
<b>George</b>	79:8	37:7	75:8	<b>higher</b> 31:4
85:17,18,2	<b>grave</b> 69:20	<b>handled</b>	76:2,13	71:19
0	<b>great</b> 22:16	36:15	<b>heads</b> 21:12	<b>higher-</b>
<b>gets</b> 28:12	34:5 47:20	<b>handling</b>	<b>health</b>	<b>incident</b>
37:7 41:9	48:8	15:18,19	15:8,10	66:20
54:8	<b>greater</b> 17:8	34:11	17:7,12	<b>highway</b>
<b>getting</b> 20:2	<b>greatest</b>	36:13	<b>hear</b>	40:10,12
44:20	19:7	<b>hands</b> 50:8	62:19,21	<b>hired</b> 59:5
<b>given</b> 56:25	<b>Green</b> 3:6	61:3	<b>hearths</b> 67:1	<b>hiring</b> 56:24
66:16	<b>greenhouse</b>	62:7,10	<b>heater</b> 15:15	<b>historical</b>
67:10	14:16	76:18	24:24	73:10
<b>giving</b> 33:10	<b>Grismala</b>	<b>happen</b> 40:15	<b>heaters</b>	<b>Hodson</b> 4:4
57:22	4:20 5:3	<b>happened</b>	42:23	<b>homework</b>
<b>glad</b> 71:10	<b>gross</b>	69:15	<b>heavy</b> 38:4	9:12,13,17
73:23	53:20,22	<b>happy</b> 12:22	<b>HELD</b> 1:15	74:3,6,13,
<b>GNR</b> 23:24	<b>ground</b> 14:8	18:7	<b>hello</b> 25:11	18,21 81:4
<b>GNWT</b>	15:19	<b>hard</b> 19:7	62:18	82:21
3:11,13,17	52:14	39:20	<b>help</b> 18:25	<b>Hoos</b> 2:17
,19,22 7:4	<b>grounds</b>	71:18	65:10	<b>hope</b> 63:14
12:3,4,6,8	75:23	<b>haul</b> 40:16	71:12	<b>hopefully</b>
21:7,18	<b>group</b> 57:1	52:3	85:13	39:5 58:7
22:9,23	<b>guess</b> 10:21	<b>haulage</b>	<b>helpful</b> 34:6	59:17
34:1 44:25	17:17	52:16	<b>Henrietta</b>	<b>hour</b>
45:17	22:17	<b>hauling</b>	2:14 38:15	16:18,19,2
48:19	24:18	38:11 39:3	40:24	0,23
51:10,24		<b>haven't</b> 10:1	<b>heritage</b>	32:12,19,2
52:3,20			6:14 9:10	0,23
53:2,8,10,				

33:3,4	81:14	on 43:5	20:5,13	55:16
<b>Hubert</b> 2:4	<b>idling</b> 35:2	<b>implemented</b>	34:22	<b>indicating</b>
<b>human</b> 17:11	<b>ILE</b> 4:22	19:3 32:11	68:20	30:21
<b>hundred</b>	<b>I'll</b> 10:22	<b>implementing</b>	<b>included</b>	39:19 41:3
16:15	13:17	18:15 36:3	14:18	54:3
<b>hundreds</b>	20:24 22:6	<b>implies</b> 35:7	18:22	<b>indication</b>
71:21	24:8 26:16	<b>imply</b> 35:10	19:18	72:24
<b>hydromet</b>	31:9 34:6	<b>importance</b>	65:14	<b>indirect-</b>
26:2,8,18,	36:25	52:15	<b>including</b>	<b>heating</b>
21 28:2,9	50:21	<b>important</b>	7:13 16:12	37:19
30:1,22	51:19	54:18	43:14	<b>individual</b>
32:20	54:13 55:4	64:11	44:11,16	68:18
37:18 38:3	58:10	<b>impression</b>	45:14	<b>industrial</b>
<b>hydrometal</b>	62:16	28:8 51:12	46:5,16	17:13
37:25	64:14	<b>improved</b>	75:23	<b>industry</b>
<b>hydrometallu</b>	70:14	65:5	77:25	53:3
<b>r</b> 47:18	75:25	<b>Inc</b> 1:5 2:13	78:6,20	<b>influence</b>
<b>hydrometallu</b>	77:11	<b>incin</b> 20:8	80:7	81:10
<b>rgical</b>	84:21	<b>incineration</b>	81:5,11	<b>information</b>
7:20 12:25	<b>I'm</b> 11:2	7:5,9	82:22	7:7 21:22
14:10	12:22 13:1	18:11,13,1	<b>incorporate</b>	22:12 23:2
15:22	19:7	5,21	19:17	29:10
16:22	24:6,7,18	19:11,19,2	<b>incorporated</b>	30:3,4
47:6,18	26:11,13	4	18:20	48:22
48:5 49:10	27:21	21:8,10,20	81:15	70:21
80:2	44:20 54:1	,21,24	<b>incorporates</b>	73:9,16,22
	55:6,25	22:4,10,14	7:6 21:22	77:21
	56:22	,25 23:5	22:11 23:1	79:18 83:4
	57:14	24:1 26:5	48:22	85:8
	59:24 60:7	48:13,21,2	79:18	<b>infrastructure</b>
	61:3	4 79:17,20	<b>incorporatin</b>	<b>re</b> 64:22
<b>IBA</b> 56:25	62:7,9,10	<b>incineration</b>	<b>g</b> 18:12,16	<b>inherited</b>
<b>ICF</b> 4:20 5:3	69:17	<b>s</b> 48:17	21:8	60:24 62:6
<b>I'd</b> 18:4	71:15 73:8	<b>incinerator</b>	<b>increase</b>	<b>initial</b>
42:21 51:8	76:10	17:24	58:20	73:21
54:15	84:23	18:17	<b>increasing</b>	<b>initially</b>
55:13	<b>IMA</b> 12:1	19:13,17	33:21	28:14
71:3,10	63:23 69:6	20:12	58:12	31:15
84:24	72:1,17	23:12	<b>independent</b>	<b>initiate</b>
85:2,11	73:3 75:12	24:16 25:3	65:8	79:11
<b>idea</b> 40:8	<b>impact</b> 1:2	<b>incinerators</b>	<b>indicate</b>	<b>input</b> 24:21
57:20	68:9	17:22	10:7 17:25	27:18
<b>identificati</b>	<b>implement</b>	18:5,8,23	34:18 39:9	<b>inquire</b>
<b>on</b> 68:5	7:5	20:8 24:11	<b>indicated</b>	72:22
<b>identified</b>	21:7,19	25:6	28:11	<b>inside</b>
71:19	22:10,24	<b>include</b> 16:5	38:15 41:1	
<b>identify</b>	48:20		43:8,14	
13:6 73:10	79:6,16			
	<b>implementati</b>			



16:6,12,17 ,24 17:5,8 31:21,24 37:8,19,20 ,21 38:25 <b>inspect</b> 35:3 <b>inspection</b> 67:9 <b>instantaneous</b> s 33:17 43:24 44:1 <b>instruments</b> 32:14 <b>intend</b> 31:8 <b>intent</b> 44:13 <b>intention</b> 45:4 <b>intentions</b> 43:2 <b>interest</b> 42:4 58:14 <b>interested</b> 60:8 73:8 <b>intermodal</b> 37:8 <b>International</b> 1 4:20 <b>introduced</b> 26:25 <b>introduction</b> 31:22 <b>introductory</b> 13:2 <b>Inuvialuit</b> 68:12 <b>investigate</b> 75:18 <b>investigated</b> 18:6,24 73:17 <b>investigating</b> g 75:22 <b>involved</b>	70:2,18 <b>involvement</b> 69:24 <b>IR</b> 34:10 <b>issue</b> 10:8 35:8 58:11 <b>issues</b> 6:11,15 9:8,11 10:4,10 36:2 50:10,12,2 0,25 51:3 52:23 60:12,25 62:6 64:7 <b>item</b> 9:13,17 12:15 38:10 41:22 60:6 74:18 81:4 82:21 <b>items</b> 34:14 43:14 51:13 53:13 55:16 65:1 73:7 74:3 75:23 <b>ITI</b> 3:13,17 12:3,5 <b>it'll</b> 35:23 <b>it's</b> 9:21 10:1 17:7,20 18:9 19:13,20 21:3,14 22:3,5,7 24:5 26:22 29:24 32:24 33:18 35:6,13 36:7,14,25 37:4,6 41:11,12 44:5 46:25 52:13	64:11 69:5 70:4,9 72:7,24 75:14 83:19 84:18 <hr/> <b>J</b> <b>Jake</b> 4:9 <b>James</b> 4:4 <b>Jim</b> 2:18 <b>job</b> 10:21 25:11 <b>John</b> 4:14 13:8,12 49:15,19,2 2,24,25 50:4 56:7,8,12, 15 60:16,19 62:18,23 63:6,15,19 76:10 83:12,13 <b>Jones</b> 4:25 <b>judgment</b> 14:22 <b>jump</b> 24:18 <b>jurisdiction</b> s 17:10 <hr/> <b>K</b> <b>KAPB-2</b> 65:25 <b>KAPB-3</b> 65:25 <b>KAPB-4</b> 65:25 66:20 <b>Kate</b> 4:11 <b>Kathy</b> 2:20 11:18 13:18,19 17:17 27:3,12 28:19 31:10,14 32:17	<b>Kelly</b> 2:16 11:12 <b>Kevin</b> 2:19 <b>KFN</b> 13:9 56:8 83:13 <b>Khourri</b> 3:19 61:8,10,12 ,14,25 83:25 84:8 <b>kiln</b> 26:13,24 <b>kilometre</b> 14:11,12 <b>kinds</b> 25:18 <b>Knight</b> 2:19 <b>knowledge</b> 58:12 81:15,17 <b>known</b> 14:2 <b>KOURI</b> 61:4 <hr/> <b>L</b> <b>L-37</b> 78:7,11 79:9 <b>Lacey</b> 18:10 21:4 22:3 23:10 24:6 <b>lake</b> 1:4 3:3 7:19 9:5 14:9,19 32:19 37:16 47:5,17 48:3 49:9,14 64:18 66:10 77:18 80:1,12,23 81:11 <b>language</b> 9:9 60:7,13,22 <b>largest</b> 15:2,16,21 ,23 26:20	28:17 <b>last</b> 21:25 48:12 52:22 54:13 60:23 61:1 62:9 63:7 66:8 70:14 83:9 <b>latest</b> 19:6 28:10 29:20 <b>launch</b> 51:2 <b>Laura</b> 4:25 <b>lay-down</b> 65:15 <b>lead</b> 73:12 <b>leading</b> 57:11 <b>leased</b> 52:13 <b>least</b> 10:13 18:5 31:1 37:5 51:12 <b>leave</b> 74:7 <b>legislation</b> 68:13 <b>lend</b> 40:10 <b>less</b> 14:1 <b>Let's</b> 45:20 <b>letter</b> 51:14 <b>level</b> 14:8 31:4 43:10 81:24 <b>levels</b> 26:12 41:21 78:12 79:1 <b>licence</b> 70:6 <b>life</b> 9:9 52:5 60:7,13,23 <b>light</b> 38:3 <b>likely</b> 37:17 39:9 40:19
--	--	--	---	---

<b>limited</b> 7:14 44:16 45:15 46:6,17 80:8 <b>limits</b> 81:20 <b>line</b> 7:18 9:24 13:5 16:6,12,17 ,24 17:6,8 18:10 31:21,24 33:18,19 44:2 47:4,16 48:3 49:12 56:6 60:14 76:8,11 79:25 83:9 <b>Lionel</b> 3:9 12:9 <b>list</b> 6:3,4 7:1 8:1 24:7 48:12 <b>listed</b> 80:21 <b>listening</b> 44:21 45:5 <b>little</b> 12:18 43:21 64:15 71:13 <b>living</b> 73:14 <b>Lizotte</b> 3:14 12:4 <b>LKDFN</b> 5:5 <b>load</b> 16:15 <b>loaded</b> 37:7,9 39:1 <b>loading</b> 36:17 37:3 40:6,11 41:23 <b>local</b> 54:21 <b>Lodge</b> 3:4	<b>logic</b> 25:3 <b>logistical</b> 12:15 <b>long</b> 36:25 50:23 55:19 72:8 83:19 85:10 <b>longer</b> 29:23 40:21 <b>long-term</b> 78:5,19 <b>lot</b> 44:20 45:23 51:12 52:23 <b>loud</b> 9:22 <b>low</b> 28:23 <b>lumping</b> 37:24 <hr/> <b>M</b> <hr/> <b>MACKENZIE</b> 1:1 <b>main</b> 28:15 <b>maintain</b> 35:4 78:5,19 <b>maintenance</b> 19:21 <b>major</b> 14:23 15:14 53:23 <b>majority</b> 35:22 <b>Maki</b> 2:7 <b>Makin</b> 11:20 <b>manage</b> 21:20 <b>managed</b> 52:22 <b>management</b> 7:6,9,11 18:11,15,2 1 19:11	20:13 21:8,21 22:11,14,2 5 23:6,21,22 ,23 26:5 28:13 43:4,13 44:9 45:12 46:3,13 48:13,21,2 5 65:14 66:6,7,24 67:6,18 68:16 79:17,21 80:5 <b>manufacturer</b> 20:1 <b>Manufacturer</b> <b>s</b> 39:17 <b>map</b> 81:8 <b>mapping</b> 67:8 <b>Marbek</b> 5:3 <b>Marc</b> 2:10 <b>Marcinkoski</b> 3:9 12:9,10 <b>Mark</b> 2:15 11:14 25:5 33:15 85:15 <b>Marsh</b> 40:25 <b>marshalling</b> 65:21 <b>martin</b> 67:3 <b>material</b> 37:4,7 38:7,8 39:1 41:15,18 <b>materials</b> 66:3 <b>material's</b> 35:12 37:16	<b>matter</b> 14:1 51:6 <b>may</b> 30:20 36:4 52:15 61:16,20 65:1 67:4 68:20 <b>maybe</b> 13:1 44:3 45:7 <b>McMillan</b> 3:25 11:6,7 17:19 18:9 21:3 22:2 23:9 24:5 <b>mean</b> 19:24 24:6,15 28:4,7 40:14 63:11 <b>meant</b> 24:14 35:10 40:2 71:24 <b>measures</b> 20:7 34:20 35:8 68:8,18,20 70:4 <b>meet</b> 18:6 19:14 23:25 24:2,3 <b>meeting</b> 17:25 51:10,13 52:22 53:1 54:5 <b>members</b> 58:13,24 59:6 85:3 <b>mention</b> 54:2 <b>mentioned</b> 18:4 31:21 42:19,22 52:10 55:5 63:24 69:10,14,2	1 <b>mentions</b> 59:3 <b>Menzies</b> 2:5 12:11 <b>Mercredi</b> 1:12 2:3 9:3 10:25 12:13 13:4,10 29:12 44:22 45:17 46:20 47:7 48:8 49:11,17,2 0,23 50:1,5,21 51:16 60:20 61:6,9,11, 15 62:3,20 63:2,9,17, 20 64:3 76:15 77:7 82:11 83:1,14,23 84:13,20 85:18,21 <b>mercury</b> 19:15 23:15 <b>met</b> 53:15 <b>metallurgica</b> <b>l</b> 37:25 39:19 40:24 <b>metallurgy</b> 40:25 <b>Metals</b> 1:5 2:12 <b>methodologie</b> <b>s</b> 65:4 <b>methodology</b> 69:18 75:21 <b>mic</b> 9:20,22 10:22
---	---	--	---	--

12:16,19 50:9 61:8,24 62:11 <b>Michael</b> 3:3,22 5:5 <b>microns</b> 14:1 <b>mics</b> 12:18 <b>mill</b> 26:13 <b>mind</b> 10:16 33:18 <b>mine</b> 7:19 12:24 14:19 15:5,6,7,1 5 31:25 42:23 47:5,17 48:3 52:5 66:21 80:1 <b>miner</b> 24:24 <b>minerals</b> 12:7 42:4 <b>mines</b> 15:11 40:12 58:17 <b>minimum</b> 38:13 <b>mining</b> 35:12 <b>Minister</b> 54:8 55:11 <b>minor</b> 14:23 <b>minute</b> 50:15,22,2 4 <b>minutes</b> 46:22 50:12 51:10,24 61:5 <b>missed</b> 21:25 28:23 30:19 57:14 <b>mist</b> 27:20	<b>mitigate</b> 36:1 <b>mitigated</b> 67:20 <b>mitigation</b> 34:20 68:8,17,20 69:23 70:4 79:12 <b>model</b> 14:15 16:4 24:22 27:18 30:4,6,9,1 0,11 <b>modelled</b> 24:2 28:18 29:2,20 30:17 <b>modelling</b> 14:13,19 16:2,9 27:15 31:11,12,2 1 77:22 79:7,10 <b>moderate</b> 14:23 65:18 <b>modification</b> s 34:2 <b>MOG</b> 3:17 <b>moist</b> 35:14 37:4,6,16 38:7,18 <b>moisture</b> 37:6 38:9,13,14 39:9 40:14,15,2 1 41:2,20,21 <b>moment</b> 23:17 29:14 33:11 44:19 47:11 61:12	<b>monitoring</b> 7:11,15,17 24:17 25:12,15 26:4 30:24 31:1,6,9,1 0,13,16,24 ,25 32:3,4,10, 21,22,25 33:7,17 42:18,20 43:3,8,12, 15,25 44:1,9,12 45:12,16 46:3,7,13, 18 47:3,15,25 78:9,23 79:6,24 80:5,9 <b>monoxide</b> 13:24 15:17 <b>month</b> 71:9 <b>monthly</b> 32:24 <b>months</b> 35:24 37:14 <b>morning</b> 12:22,23 17:20 51:25 <b>move</b> 22:17 34:6 50:7,9 60:5 61:1 62:4 76:20 80:10 <b>moved</b> 37:9 <b>moving</b> 48:10 <b>MSDS</b> 80:20 <b>MVEIRB</b> 2:3 <b>MVLWB</b> 2:10 <b>myself</b> 59:8	<hr/> N <b>Nathan</b> 3:7 <b>Nation</b> 4:9 <b>Nations</b> 56:22 58:13,14,2 4 59:4,6 70:2,10 73:16 <b>natural</b> 35:11 42:10 <b>naturally</b> 42:9 <b>necessarily</b> 45:5 <b>necessary</b> 34:3 53:12 <b>Nechalacho</b> 37:2 64:17,19 65:13 67:13 77:15 78:21,25 81:25 82:6 <b>negative</b> 36:16 <b>nitrogen</b> 13:24 15:16 <b>nodding</b> 21:12 <b>non</b> 59:16 <b>non-comment</b> 49:21 <b>none</b> 56:12 60:5 <b>non-reactive</b> 40:3 <b>non-skilled</b> 58:6 <b>non-toxic</b> 40:3	<b>north</b> 66:6,23 <b>Northern</b> 12:10 53:18 56:24 61:18 <b>Northwest</b> 13:23 14:14 <b>note</b> 41:25 83:2 <b>noted</b> 31:18 <b>nothing</b> 47:21 62:1 <b>notify</b> 77:16 <b>notion</b> 40:10 <b>Notzl</b> 2:14 38:15 <b>np</b> 2:4,10,13, 14,16,17,1 8,19,22,23 3:3,6,7,8, 9,12,24 4:3,4,9,13 ,18,20,22, 25 5:3 <b>NPMO</b> 4:11 <b>NW</b> 54:22 <b>NWT</b> 1:19 12:1 14:3 53:3,15,16 54:17,22 <b>NWTM</b> 4:9 <b>NWTTSTC/AIMA</b> 4:16 <hr/> O <hr/> <b>objecting</b> 76:19 <b>objectives</b> 14:4 17:10 <b>obviously</b> 33:25
---	---	---	---	--

108				
40:13,16	<b>ones</b> 13:22	<b>output</b>	23:22 24:1	<b>per</b> 29:22,25
58:22	<b>Ontario</b> 14:5	29:19,22,2	64:12,21	30:12
<b>occupational</b>	16:9	4	69:19	71:18
15:10 17:7	<b>on-the-job</b>	<b>outside</b>	70:16	<b>percent</b>
<b>occur</b> 15:5	58:2	17:12	<b>particulate</b>	16:15,19,2
31:25	<b>open</b> 13:3	26:18	13:25	0,21,23
69:23	17:17 60:9	37:10,13	<b>parties</b> 6:18	37:5
<b>occurred</b>	62:7 84:21	67:25	20:19	38:9,13,14
17:21	<b>opening</b> 6:5	<b>outstanding</b>	72:19 77:6	39:8,12,14
40:12	51:5 60:8	9:13 52:23	84:25 85:4	,15,18,20,
51:11	<b>operated</b>	53:6,14	<b>partner</b>	23
<b>occurs</b> 35:25	19:20	76:23	55:20	40:13,14,1
<b>Oceans</b> 2:24	24:13	<b>outweigh</b>	<b>partners</b>	5 41:2,4
<b>offered</b> 72:1	<b>operating</b>	41:16	55:6	<b>percentage</b>
<b>office</b> 12:1	16:14	<b>overall</b>	57:4,11	59:3,15
63:23 69:6	19:16 20:8	13:21	64:13 65:9	<b>perhaps</b>
72:1 73:3	25:12	84:14,19	70:17	27:19 73:6
75:12	81:24	<b>overestimat</b>	72:14	<b>period</b>
<b>Oftentimes</b>	<b>operations</b>	<b>ng</b> 30:9	<b>partnership</b>	6:9,12,16
58:16	35:11 58:4	<b>oxides</b> 15:17	57:8	17:15 23:8
<b>Oil</b> 12:7	78:10,24		<b>passed</b> 10:2	33:24
<b>okay</b> 9:3	79:5	<hr/>	<b>passive</b>	51:22
12:21	82:2,8	<hr/>	32:4,14,21	52:12 65:2
13:12	<b>operators</b>	<b>page</b> 6:2 7:2	,22	69:4
17:16	19:23	8:2 19:10	<b>past</b> 34:16	<b>periods</b>
25:21,25	<b>opportunitie</b>	20:19	40:21	52:16 58:3
32:9 33:1	<b>s</b> 54:19	59:14	<b>Pat</b> 4:13	78:6,20
34:5 36:12	58:2 63:10	71:10	<b>patience</b>	<b>permitting</b>
40:1 41:19	<b>opportunity</b>	<b>parameters</b>	49:3,6	10:10
42:17 43:9	54:23	24:21	<b>Patti</b> 3:8	<b>person</b> 13:6
44:16 45:9	62:14 63:8	25:12	<b>Paul</b> 1:12	<b>persons</b>
46:20 47:8	<b>optimization</b>	79:10 81:2	2:3 3:6	52:17
49:7	40:22	82:19	10:25	<b>perspective</b>
50:1,4,21	<b>order</b> 20:1	<b>Pardon</b> 49:22	61:4,14	26:1
56:9,14,16	54:16	<b>Park</b> 3:12	63:23	<b>phase</b> 53:24
57:15	<b>organization</b>	<b>participants</b>	84:18	68:17
59:21	9:21	66:16	<b>pause</b> 12:19	<b>phone</b> 60:15
60:4,11	<b>original</b>	85:12	29:5 60:1	<b>phonetic</b>
63:6 64:9	29:21	<b>participate</b>	<b>Peace</b> 1:18	36:18
70:9,15	<b>others</b> 25:8	54:23 65:9	<b>peaks</b> 33:5	<b>photos</b> 70:8
76:2,13,15	41:9	<b>participatin</b>	<b>pedestrian</b>	<b>pick</b> 32:15
84:21	<b>outcropping</b>	<b>g</b> 9:6 62:2	65:12	<b>Piesold</b> 2:19
85:19,22	42:5	84:24	<b>people</b> 12:17	<b>Pine</b> 37:18
<b>Olivier</b> 2:23	<b>outcrops</b>	85:23	19:25	65:21
<b>onerous</b>	42:12	<b>participatio</b>	58:20	67:14
53:11		<b>n</b> 63:10		
		<b>particularly</b>		

108				
77:22	42:24	11:25	4,25	11:18
80:23	47:6,19	63:22,23	<b>predict</b>	13:19
81:11	48:5 65:14	69:5,6	16:6,16,22	27:12
<b>placement</b>	77:16 80:2	71:25	31:17 32:7	28:19
78:14 79:3	<b>plastic</b> 39:2	72:16 73:2	<b>predicted</b>	31:14
<b>placing</b>	<b>plat</b> 13:25	75:11,12	16:3,18	32:17
78:3,17	<b>please</b> 9:21	<b>portal</b> 15:7	17:3	<b>pretty</b> 38:1
<b>plan</b> 7:6,12	10:5,6	<b>portion</b>	31:4,22	40:16
18:16,21,2	12:15,16	71:24	32:1,18	50:23 74:4
5 19:11	43:1,11	<b>portions</b>	<b>predicting</b>	<b>previous</b>
20:6,7,12,	45:24 50:8	65:19	14:7	9:20 15:1
13 21:8,21	82:15	<b>position</b>	<b>predictions</b>	39:12
22:11	84:3,9	23:20	33:3 79:7	48:13,16
23:1,23	<b>pleased</b>	<b>positions</b>	<b>preferable</b>	<b>primary</b> 26:9
26:4,5	54:11,20	10:14,15	25:22	<b>primer</b> 13:16
31:6,10	<b>plume</b>	<b>possible</b>	<b>preference</b>	<b>Prince</b> 61:17
34:2 35:7	77:23,25	40:20 59:2	57:23	62:1 68:19
42:18	79:8	67:1 71:20	<b>preferential</b>	69:24 70:5
43:4,13	<b>plumes</b> 36:8	73:12,15	56:23	71:2
44:10	<b>plus</b> 40:25	75:18	<b>prehistoric</b>	<b>prior</b> 43:5
45:13	<b>PM2.5</b> 14:2	83:22	66:2	51:11
46:4,14	15:17	<b>posted</b> 9:16	<b>preliminary</b>	66:18
48:13,21	<b>point</b> 30:25	51:17	16:2	68:19 72:5
62:2 67:8	37:18	59:12,13	<b>prematurely</b>	77:17
68:1,14	40:18,21	83:3,5,6	12:16	<b>priority</b>
69:22	41:14,16	<b>posting</b>	<b>prepared</b>	54:23 55:5
70:3,15,19	42:14,17	51:24	68:14	56:25 57:3
79:17 80:6	55:13	71:11	<b>present</b>	<b>privacy</b> 53:9
<b>planning</b>	58:13	75:25	16:25 31:3	<b>probably</b>
61:19	64:11	<b>potential</b>	61:23	19:5 37:23
<b>plans</b> 18:11	65:21	65:19	<b>presentation</b>	46:22 74:4
25:9 43:8	67:14	66:21 68:5	6:8 9:15	<b>proceed</b>
57:10	77:22	75:22,23	13:14	13:18
<b>plant</b> 7:20	80:24	<b>prac</b> 16:7	63:24	<b>process</b> 28:5
15:23,24	81:11	<b>practice</b>	64:1,6	34:25
16:22	84:21	16:7	69:8 71:12	40:22
24:25	<b>points</b>	23:21,22	<b>presented</b>	57:12 72:6
25:17	15:19,20	24:12	24:17	85:9
26:10,16,1	25:7 33:14	<b>practices</b>	<b>pressed</b>	<b>procurement</b>
8,19,21,22	56:20	19:17	39:20	9:10 50:13
,23	<b>policy</b> 56:24	<b>precipitant</b>	<b>presses</b>	51:4 53:18
27:3,4,7,1	<b>polishing</b>	38:4	39:15,16	56:11,22
1,13,21	81:24 82:6	<b>pre-</b>	<b>pressure</b>	59:24
28:9,16	<b>pond</b> 81:25	<b>constructi</b>	36:16	60:22
29:19,22	82:6	<b>on</b>	<b>Preston</b> 2:20	<b>produced</b>
30:20	<b>Poole</b> 4:16	57:18,19,2		83:5
32:20				
35:22				
37:1,2,18,				
25 38:3				

108				
<b>product</b> 36:14 38:2 40:2,8	71:10,13 73:19,23,2 5	50:6 80:5	<b>quick</b> 9:12 65:23	66:8,9
<b>productive</b> 85:11	74:7,8,12, 14,15,18,2 2 75:4,13	<b>quality/air</b> 49:13	<b>quickly</b> 12:18 36:13 74:5 83:22	<b>realm</b> 47:9
<b>products</b> 38:3	77:21 80:17,20	<b>quantify</b> 53:18	<b>quite</b> 14:10 73:12	<b>reason</b> 17:5 19:2
<b>professional</b> 14:21	81:1,8,23 82:4,18 84:6	<b>quartz</b> 66:13		<b>rec</b> 33:16
<b>programs</b> 58:5 68:25	<b>provided</b> 21:9 33:22 54:22 55:15 59:5 73:24	<b>ques</b> 25:24	<hr/> R <hr/>	<b>receive</b> 72:11
<b>project</b> 1:4 9:5 35:3 42:2 49:14 53:24 54:17 57:11 68:17 77:19 80:14 81:10,18 84:14,19	<b>providing</b> 54:25 84:2	<b>question</b> 6:9,12,16 17:15,21 23:8 27:6,9 29:8 39:5 51:22 54:14 59:11 65:19 69:4,8,10 70:14 82:14	<b>rail</b> 38:25 <b>railhead</b> 38:20 <b>raise</b> 15:8 <b>raises</b> 15:3,13,20 <b>Ralph</b> 4:20 5:3 <b>range</b> 36:25 39:14,24 41:4 <b>rapidly</b> 17:3	<b>received</b> 34:13 51:9
<b>property</b> 38:22	<b>provinces</b> 16:8 17:6	<b>questioning</b> 18:10	<b>receptors</b> 16:5,12 17:5	<b>recent</b> 46:21 65:2,3 66:2
<b>proponent</b> 19:12 58:24	<b>public</b> 55:15 69:13 72:2,5 77:17 85:7	<b>questions</b> 10:11 17:18 22:18 24:7 26:1 41:22 42:17 43:21 48:10 49:8,12 50:6 51:20 52:21 56:4,10 58:7,11 59:18,25 60:10,11,1 5,17,21 62:8,14,17 ,21 63:3,4,7,1 4,16 68:25 69:1,7 70:11 76:4,12,16 82:25 83:10,13 84:22 85:23	<b>recently</b> 71:9	<b>recessing</b> 50:17
<b>propose</b> 77:13	<b>pug</b> 26:13		<b>reach</b> 20:18	<b>recognize</b> 26:8 27:18 30:18 85:14
<b>proposed</b> 65:13,16,1 9 66:7 67:6,25 77:14 80:23 81:9,18	<b>pull</b> 72:21		<b>rare</b> 1:4,5 2:12 9:5 38:3,4 77:18	<b>recognizes</b> 53:8,10 54:19
<b>protected</b> 68:11	<b>pulling</b> 29:9		<b>rates</b> 25:13	<b>recognizing</b> 26:19 56:21
<b>protection</b> 68:14,15,2 1	<b>purchase</b> 53:24		<b>re</b> 6:8 13:14 44:23 64:6	<b>recommend</b> 18:8 31:16,18,2 3 32:3 39:17
<b>protective</b> 17:11	<b>purchased</b> 53:17,23		<b>reading</b> 20:24 44:25 77:8	<b>recommenda</b> <b>on</b> 67:11
<b>proved</b> 15:16	<hr/> Q <hr/>		<b>ready</b> 17:23 45:2 72:4,18	<b>recommenda</b> <b>ons</b> 19:18 31:12 33:16,22 67:7,12,24
<b>provide</b> 29:9 53:19 58:5	<b>qualified</b> 67:23 68:2		<b>reagents</b> 80:21,22	<b>recommended</b> 24:22 32:5
	<b>quality</b> 7:11 13:17,21 14:6,15,24 17:9 24:17,18 26:3 28:15 31:6,16 34:17,18 42:18 43:3,12 44:9 45:12 46:3,12 49:3,9		<b>realize</b> 20:1 32:10 <b>real-life</b> 42:1 <b>really</b> 27:2 58:13	

108				
67:23	<b>registry</b>	<b>reporting</b>	67:16	65:23
<b>reconnaissance</b>	51:25	52:24	<b>resources</b>	68:24
<b>ce</b> 65:18	55:15	53:7,10,11	6:14 9:11	71:11
<b>record</b>	71:11	,14,16,22	60:24 62:6	72:23
10:7,15	72:3,5	55:16	64:7	74:2,11,18
13:7 44:7	77:17 83:6	<b>reports</b> 72:8	68:10,11,1	,21,22
48:14	85:8	<b>reprecipitated</b> 26:25	6 76:5,9	75:3,4,9
49:18 50:3	<b>regularly</b>	30:22	<b>respect</b>	76:3,16
52:25	35:5	<b>re-</b>	10:16	77:6,11,16
55:10	<b>regulations</b>	<b>precipitated</b> 28:12	53:7,9,16	84:5,25
61:21	68:13	<b>reprecipitating</b> 28:1	<b>response</b>	85:5,24
72:17	<b>reiterate</b>	<b>request</b>	15:25	<b>reviewed</b>
<b>recorded</b>	21:1	19:12	34:12,13	14:20
66:23	<b>relate</b> 76:24	80:11	54:9,12,14	<b>revisit</b>
<b>recovered</b>	<b>related</b>	<b>requested</b>	55:11,22	43:20
67:19 69:9	18:11	16:11,13	<b>responses</b>	<b>revisited</b>
<b>recovery</b>	<b>relates</b>	24:9 80:11	17:1	66:18
67:17	84:14	<b>requesting</b>	<b>responsibili</b>	<b>Richard</b> 2:17
68:22	<b>relation</b>	73:9	<b>ty</b> 52:13	<b>Richea</b> 3:7
<b>red</b> 85:22	53:24	<b>requests</b>	<b>restrict</b>	<b>Rick</b> 2:22
<b>reduce</b> 34:21	<b>relative</b>	15:25 17:1	35:2	<b>ridge</b> 66:5
40:19	25:7	75:10	<b>restrictions</b>	<b>road</b> 16:1
<b>reduced</b>	<b>relatively</b>	<b>require</b> 36:5	52:15	35:24
16:15	40:3	41:9,10	<b>result</b> 54:2	36:23
29:25	<b>released</b>	68:19	<b>resulted</b>	52:3,5,8,1
<b>referring</b>	15:6	<b>required</b>	67:19	1,18 64:21
57:15	<b>remain</b> 53:13	25:16,18	<b>results</b> 34:1	66:4
<b>reflecting</b>	<b>remaining</b>	36:7	<b>Resuming</b>	<b>roads</b> 65:16
80:13	59:22	41:12,13	50:18	<b>rock</b> 67:2
<b>regard</b> 25:6	67:15	79:12	<b>retention</b>	<b>rocket</b> 19:24
73:17	<b>remodel</b>	<b>requirements</b>	82:5	<b>room</b> 9:23
<b>regarding</b>	16:12,13	23:25	<b>review</b> 1:2	56:17
13:17	<b>repeat</b> 84:1	53:11	6:18	60:12 62:5
17:21	<b>repeating</b>	<b>reread</b> 21:13	9:12,15	<b>roundtable</b>
42:18	59:8	22:6	10:7	9:23 10:24
52:24 57:6	<b>report</b> 55:14	<b>residue</b>	11:1,3,5,2	<b>routes</b> 52:17
69:22	64:23	38:10,12	1 12:12	<b>Royale</b> 4:22
<b>regardless</b>	69:12	41:6	20:23	<b>run</b> 50:10
39:21	71:4,7,8	<b>resolutions</b>	21:15 22:6	<b>Russell</b> 3:17
<b>regards</b>	72:2,4,5,1	10:4	23:17	12:6
29:18,21	1,18,25	<b>resolved</b>	33:10	<b>RWDI</b> 2:20
42:2 54:8	73:20,21	10:5,6	43:19 44:6	11:19
55:7,12	74:9,14,16		46:1 47:1	13:18,20
57:16	75:14,19,2		48:16	27:13
63:25	5		51:15,18	28:15,20
73:3,4			56:3 58:10	
			59:12,22	

108				
31:15	69:10	56:3,18	<b>sign-in</b> 9:25	13:14
32:18	74:18	57:14	<b>similar</b>	31:24
	<b>section</b>	59:22	28:24 55:4	49:13
<u>S</u>	34:7,18	68:24 74:2	64:20	65:24
<b>safety</b> 33:20	<b>sediment</b>	75:8 76:3	<b>Simon</b> 2:8	66:19,22,2
52:14,17	71:22	85:14	4:13 11:4	5
<b>sake</b> 29:13	<b>seeing</b> 60:4	<b>share</b> 33:25	20:24	67:4,18,20
<b>samples</b>	61:3	<b>shared</b> 72:19	21:12,14	,22 68:10
42:11	62:7,9,10	<b>shed</b>	22:5,17	69:16,19,2
<b>sampling</b>	84:23	37:19,20,2	43:19 44:5	0 73:10,13
35:17	<b>seen</b> 40:6	1	45:3,10,25	75:18
<b>Sarah</b> 2:23	<b>selected</b>	<b>sheet</b> 9:25	46:24,25	80:2,24
18:9 21:3	19:13	<b>sheets</b> 80:20	47:12,13	<b>situation</b>
22:2,19	<b>semi-skilled</b>	<b>she's</b> 30:10	48:15	36:4 40:5
23:9 24:5	58:18	<b>ship</b> 38:2	74:10,20	<b>six</b> 15:15
<b>Sarah-Lacey</b>	<b>send</b> 12:22	<b>shipped</b> 38:6	75:2 76:22	66:22
11:6	<b>sent</b> 28:12	<b>shipping</b>	77:8,10	67:18
17:19,20	54:3	37:15	82:12,16	<b>skilled</b>
18:9 21:3	<b>separate</b>	41:18	84:1,4,9	58:6,21
22:2 23:9	14:8	<b>showing</b>	85:14	<b>skills</b> 57:7
24:5	<b>services</b>	80:13 81:9	<b>simply</b> 19:13	58:20
<b>Sarch-Lacey</b>	53:17,20,2	<b>shown</b> 80:14	40:9	<b>Slack</b> 4:7
3:25	2	<b>shows</b> 17:2	<b>single</b> 81:8	11:22
<b>Saskatchewan</b>	<b>session</b> 1:7	<b>Shuwera</b> 3:13	<b>sit</b> 54:4	<b>slides</b> 13:16
16:10	9:4	12:2,3	<b>site</b> 7:19,20	61:23
<b>saturation</b>	62:11,16	51:23,24	12:24,25	63:25
78:12 79:1	63:1,5,12	52:19,20	14:9,10,19	64:10,12,1
<b>saw</b> 33:19	64:2 76:18	54:10,11	17:4 26:3	5
51:25	83:17 85:2	55:21,22	30:24	<b>small</b>
66:24	<b>sessions</b>	57:5 58:9	31:1,25	25:7,14
<b>scatter</b> 66:4	51:11	59:19	32:20	66:25 73:6
<b>science</b>	<b>Shafic</b> 3:19	<b>Sibbakel</b>	35:21 42:2	<b>small-</b>
19:25	61:4,8,10,	4:18	47:5,6,17,	<b>circuit</b>
<b>SEA</b> 54:5	12,14,23,2	<b>sidebar</b> 10:5	19 48:4,6	37:23
<b>sealed</b> 36:19	4,25	<b>sides</b> 66:23	49:10	<b>snow</b> 35:23
38:5	83:24,25	<b>signed</b> 10:1	59:13	<b>SO2</b> 7:15
<b>season</b> 35:23	84:8	<b>significant</b>	64:17	15:25
<b>seasonal</b>	<b>Shannon</b> 1:13	39:10	65:13,14	16:18,19,2
65:16,22	2:6 4:6	40:16 53:2	66:1,4,8,1	3 28:15
68:1	5:6	58:13	2,20	30:24
<b>seats</b> 57:23	10:19,23,2	<b>significantl</b>	67:2,13	31:23
<b>second</b> 15:7	5 11:3,23	y 30:1	68:3,4,14,	32:3,4,12,
38:10	20:22	40:20	21 71:5	18 33:17
66:4,12	23:16		73:12 76:6	43:15
	33:10		77:22	44:12
	43:19		80:12	45:15
			81:25 82:7	46:7,18
			<b>sites</b> 6:8	47:3 80:8
			12:24	



108				
<b>socio</b> 51:2	15:2,14,16	46:6,17	<b>Stephanie</b>	<b>subsequent</b>
<b>socioeconomi</b>	<b>south</b> 38:6	<b>stacks</b> 28:3	4:16 11:25	31:20
<b>c</b> 9:8	41:7	<b>stage</b> 40:23	63:21,22,2	<b>subsurface</b>
10:10	<b>spatial</b> 17:2	<b>standard</b>	3 69:5,6	67:9
50:10,12,2	<b>speak</b> 9:21	16:7 33:4	70:13	<b>sufficiently</b>
5 51:3	31:10	<b>standards</b>	71:25	78:4,18
60:12	62:16	13:23 14:3	72:16 73:2	<b>suggest</b>
84:11	<b>SPEAKER</b>	17:7	75:9,11,12	33:23
<b>Socio-</b>	82:13,24	18:1,2,6,7	<b>steps</b> 85:8,9	<b>suggesting</b>
<b>economic</b>	<b>speaking</b>	19:12,14	<b>Stevens</b> 3:21	38:11
6:11 50:20	9:20 10:17	23:13,14	11:8 19:9	<b>sulphur</b> 7:17
<b>socioeconomi</b>	12:15,19	32:13	20:15	13:24 26:8
<b>cs</b> 60:6	<b>specificatio</b>	38:23	24:10	27:20 31:2
<b>sold</b> 41:9	<b>ns</b> 20:9	48:17	25:20	42:19
<b>somebody</b>	<b>specifics</b>	<b>standby</b> 68:3	27:8,16	47:15 48:1
56:5	20:14	<b>standpoint</b>	30:2,15	79:24
<b>sometime</b>	<b>specs</b> 20:1	33:20,21	32:8	<b>sulphuric</b>
72:12	24:2,3	<b>Stantec</b> 4:18	33:1,2	15:24
<b>sorry</b> 10:4	<b>springtime</b>	<b>start</b> 12:23	34:4 36:11	24:25
25:24	36:9	26:7 36:25	39:7,25	25:17
27:17 28:7	<b>St</b> 4:14	40:11	41:19	26:10,15,1
29:7 30:18	13:8,12	50:24	42:15	9
31:5 41:23	49:15,19,2	77:11	43:9,11	27:3,4,7,1
42:21	2,24,25	<b>starting</b>	44:15	1 28:16,23
43:10 45:6	50:4	10:25	45:6,7,19	29:18,22
56:19	56:7,8,12,	30:25	48:11 49:1	30:5,20
57:14	15	<b>startup</b>	<b>stick</b> 10:11	42:24
74:12,15,2	60:16,19	57:12	<b>stock</b> 80:8	<b>summary</b>
3 85:9	62:18,23	<b>state</b> 10:14	<b>stone</b> 67:1	13:20
<b>sort</b> 15:20	63:6,15,19	35:14 37:4	<b>stream</b> 27:1	71:10
25:17	76:10	42:10	<b>strictly</b>	72:2,10
27:25 33:6	83:12,13	<b>stated</b> 10:15	52:17	74:19,23,2
75:23	<b>stability</b>	29:1 44:25	<b>strip</b> 65:15	5 75:6
<b>sorts</b> 25:13	78:5,19	<b>statements</b>	<b>Stronach</b>	<b>summer</b> 35:24
<b>sound</b> 85:15	<b>Stacey</b> 2:5	26:5 51:6	2:18	78:6,20
<b>sounds</b> 12:17	12:11,14	60:9	<b>structure</b>	<b>supercede</b>
46:9 47:22	85:14	<b>states</b> 57:6	67:3	55:19
72:17 73:5	<b>stack</b> 7:14	<b>statistics</b>	<b>studies</b> 40:6	<b>support</b>
<b>source</b>	23:11	58:16	65:5	57:17
15:21,23	24:4,10,15	<b>stay</b> 85:7	<b>stuff</b> 40:4	<b>suppression</b>
25:14 26:9	,23	<b>stemming</b>	<b>submissions</b>	34:23
27:23 81:6	25:3,23	69:7 77:23	72:6	35:19 36:7
82:23	28:8 31:18	<b>step</b> 54:1	<b>submit</b> 72:1	<b>sure</b> 13:1
<b>sources</b>	42:22,24	70:18	<b>submitted</b>	19:19
14:18,21,2	43:15		72:4 85:1	20:6,7,18
2	44:11			26:14
	45:15			29:9,16,19

108				
36:7	77:3,4	85:3	,23 25:23	43:5,18
43:17,22,2	83:18	<b>tech</b> 85:15	31:18	44:21 46:9
4 45:9	84:17		42:22	49:2,3
50:14	<b>system</b> 34:24	<b>technical</b>	43:15	51:15,24,2
52:14 55:6	35:2	1:7 7:8	44:12	5 52:20
56:1 60:7	36:16,17	9:4 18:12	45:15	56:1,2
71:20		21:9	46:6,17	58:8 59:18
<b>surface</b>	<b>systematic</b>	22:3,13	67:9 80:8	61:10,14
35:17	67:17	23:4 48:23	<b>tests</b> 28:10	70:13 75:9
42:5,10,13	68:21	51:11	<b>thank</b> 9:5,17	76:3,14
67:8	<b>systems</b>	62:11,15,2	13:11,18	<b>that's</b> 16:7
<b>survey</b> 65:20	34:24	5 63:5,12	17:16 19:8	19:7,13
66:17		64:1 72:5	23:20 27:7	20:2
67:15,16,2	<hr/> T <hr/>	76:17	30:1 31:13	26:6,9,19
4 71:8	<b>table</b> 6:1	79:19	47:22 48:9	28:17
74:25 75:5	10:2	83:17	49:6	30:12,17
<b>surveys</b>	80:18,21	85:1,3	50:2,3	32:4
65:13 73:4	84:3,7,10,	<b>technically</b>	51:1,16	35:7,10,20
75:22	12	35:14	52:18	37:3,19
<b>suspended</b>	<b>tailing</b> 78:7	<b>technology</b>	54:9,11	38:11,17
13:25	<b>tailings</b>	19:5	55:20,22	42:16
<b>Swisher</b> 2:12	65:14	<b>Teed</b> 3:17	56:15 57:5	47:11 49:2
11:16	66:6,7,24	12:6	58:9,24	55:24
13:15	67:6,18	<b>teleconferen</b>	59:19	59:13,20
18:3,18,19	78:3,10,11	<b>ce</b> 9:24	60:18,19	62:5 63:11
19:1	,17,21,24,	49:12 83:9	62:2,4	64:11 65:2
20:3,20	25 79:9	<b>temperatures</b>	63:17,19,2	68:22
23:19	82:1,7	25:13	2 68:22,23	70:8,9,14,
26:17 28:6	<b>taking</b> 35:21	<b>temporary</b>	69:5 71:24	21 71:23
29:7,15	43:10	68:21	72:15	72:14
30:8 31:7	<b>talk</b> 36:13	<b>ten</b> 46:22	73:25	74:17
33:12 35:9	71:16	50:15	75:1,7,11	75:15
36:24	<b>talked</b> 34:15	<b>tend</b> 58:17	76:1,12	84:14 85:1
39:13	<b>talking</b>	<b>terms</b> 18:23	77:4,9	<b>thaw</b>
40:23	25:10	25:10 27:4	82:11,24	37:19,22
41:24	30:14	36:3 41:5	83:1,13,14	78:6,20
43:6,16	<b>targeted</b>	56:22	,22,23	<b>themselves</b>
44:18	58:23	72:10	84:3,9,12,	13:6
45:22 46:8	<b>tarp</b>	<b>territorial</b>	24	<b>therefore</b>
47:20,21	36:21,22,2	68:12	<b>thanks</b> 12:13	31:23
49:5 51:7	3 40:9	<b>Territories</b>	20:14,23	<b>there's</b>
52:9 53:25	<b>tarped</b> 38:12	13:23	22:17	15:7,15,17
55:2	<b>tasks</b> 6:18	14:14	25:25 31:6	,18 19:22
57:2,13	76:23 77:6	<b>tested</b> 25:3	32:9	27:20 35:8
59:9 64:8	<b>team</b>	<b>testing</b> 7:14	34:3,5	39:14 44:3
70:12	62:17,22	23:12	36:10,12	52:23 58:1
72:7,8,20		24:4,10,16	39:6,7	59:15,24
73:18			40:1 41:19	60:11 76:8
74:6,17,24			42:14,16	<b>they'd</b> 15:10
75:7,20,21				

108				
<b>they'll</b>	<b>Toogood</b> 2:8	29:13 83:4	80:9	70:4 84:15
37:22	11:4	<b>transfer</b>	<b>tuned</b> 85:7	<b>understood</b>
38:22 41:9	21:14,15	15:18,19	<b>turn</b> 10:22	59:10
<b>they're</b> 10:6	22:5,6	<b>trans-load</b>	12:16,19	<b>undertaken</b>
14:10	44:5,6	38:24 39:1	<b>turning</b>	69:1
24:11	45:10,25	<b>transport</b>	12:18	<b>undertaking</b>
31:3,4	46:25	4:25 34:11	<b>twenty</b> 33:3	74:12 84:5
43:25	47:13	36:14,18	50:11	<b>undertakings</b>
45:2,9	48:15	<b>transportati</b>	<b>twenty-five</b>	6:4 8:1
62:15,24	74:10,11,2	<b>on</b> 35:20	30:13	76:17,22
71:5	0,21	81:12	<b>twenty-four</b>	77:9 80:10
<b>they've</b>	75:2,3	<b>transported</b>	16:19,20	82:10,17
71:20	77:10	36:15	32:19	83:3,21
<b>thirty</b>	82:16 84:4	<b>transporting</b>	<b>type</b> 19:3	<b>UNIDENTIFIED</b>
32:21,24	<b>top</b> 39:3	37:15	28:21,24	82:13,24
33:4,5	<b>topic</b>	52:12	33:7 39:16	<b>unless</b>
<b>Thor</b> 1:4	50:7,10	<b>trap</b> 67:3	<b>types</b> 14:20	76:18,25
7:19 9:5	51:2 59:23	<b>treat</b> 41:8	33:7 43:20	<b>unnecessary</b>
14:9,19	60:23 61:2	<b>Treaty</b> 12:1	<b>typical</b> 18:6	35:2
32:19	62:4	<b>Tree</b> 1:18	24:12	<b>unskilled</b>
47:4,17	<b>topics</b> 62:8	<b>trees</b> 42:8	<b>typically</b>	58:18
48:3	76:24 77:2	<b>Trend</b> 24:21	19:11	<b>updated</b>
49:9,14	<b>total</b> 13:25	<b>Tribal</b> 12:1	39:23	80:11,17
64:18	<b>touch</b> 56:1	<b>truck</b> 36:22	<b>typing</b> 21:13	84:2,6
66:10	<b>towards</b>	40:8		<b>updating</b>
77:18	58:23	<b>trucked</b>	<hr/> U <hr/>	84:2
80:1,12,23	<b>traditional</b>	38:20	<b>ultimately</b>	<b>upon</b> 9:1
81:11	52:4	<b>trucks</b> 38:12	43:2	25:23
<b>thoroughly</b>	81:14,16	<b>true</b> 16:10	<b>umbrella</b>	50:17,18
69:17	<b>trafficabili</b>	<b>try</b> 41:17	62:15	86:2
<b>thousands</b>	<b>ty</b> 78:13	44:24	<b>unable</b>	<b>usage</b> 30:13
71:22	79:2	61:17	53:17,19	<b>users</b> 52:4,7
<b>throughout</b>	<b>trailers</b>	<b>trying</b> 40:19	<b>underestimat</b>	<b>utmost</b> 52:14
57:12	36:20	73:10	<b>e</b> 30:7	
<b>ties</b> 24:16	<b>training</b> 9:9	<b>TSP</b> 7:15	<b>underground</b>	<hr/> V <hr/>
<b>today</b>	19:22	15:21	15:5	<b>valid</b> 42:17
9:6,7,20	50:12 51:3	16:20	35:12,18	<b>VALLEY</b> 1:1
10:9,20	56:10	31:25 32:1	69:17,19	<b>value</b>
76:25	57:6,15,16	42:20	71:16,24	53:20,22
<b>Today's</b> 9:7	,18,24	43:15	73:5,7	<b>various</b>
<b>Todd</b> 4:7	58:1,2,5,1	44:12	<b>understand</b>	58:17
11:22	1,21,22	45:16	54:18	68:12
<b>Tollis</b> 5:5	59:6,23	46:7,18	<b>understandin</b>	<b>vegetation</b>
<b>tonnes</b>	60:21		<b>g</b> 28:16	42:7
29:22,25	<b>Transcript</b>			
30:5,12	6:21			
	<b>transcripts</b>			

108				
<b>vehicle</b> 16:1	<b>Warnock</b>	47:12	<b>wide</b> 19:14	36:4
<b>vehicles</b>	86:11	49:11	23:13,14	<b>year's</b> 67:24
35:4	<b>wash-down</b>	50:7,11,14	<b>willing</b>	<b>Yellowknife</b>
<b>ventilation</b>	37:23	,23,24	18:14	1:19
15:3,8,12,	<b>wasn't</b> 9:19	56:1 57:25	43:24,25	<b>Yep</b> 74:5
20	14:24	58:4	54:4,7	82:16
<b>verification</b>	27:18,19	62:4,7	<b>willingness</b>	<b>yesterday</b>
33:8	29:2	72:12	53:4	9:15 17:22
<b>verify</b> 21:5	34:12,13	76:19,21	<b>Wilson</b> 3:24	18:4 52:10
31:1 33:3	43:22,23	83:8,20	<b>winter</b> 37:14	<b>yesterday's</b>
34:14 79:6	<b>waste</b> 7:9	<b>Wendy</b> 86:11	78:4,18	52:2
<b>versus</b> 41:18	18:16,20	<b>we're</b> 12:23	<b>Wiseman</b> 2:15	<b>yet</b> 63:3
<b>Victoria</b>	19:19	20:2,8	11:14 25:5	71:8 83:5
4:14	20:13	26:22 29:8	<b>Witherly</b>	<b>YKDFN</b> 4:6
13:8,11,12	21:9,23	33:21	4:11	11:22,24
49:15,18,1	22:4,14	35:17,21	<b>wonder</b> 72:3	56:19
9,20,22,24	23:5,23	36:5,8	<b>wondering</b>	<b>you've</b> 33:14
,25 50:4	27:1 28:13	37:15	26:11	34:15
56:7,8,12,	48:24	38:21	59:24	42:6,7,19,
15	79:20	41:6,8	<b>work</b> 31:11	21 43:8
60:14,16,1	<b>water</b> 36:1	48:9 52:12	53:4 54:4	72:1
9	37:23	54:11	58:19	
62:16,18,2	40:17 42:7	58:19,21	66:19	<hr/> Z <hr/>
3	80:12	60:5 72:11	67:25 70:6	<b>zone</b> 81:9
63:6,15,18	<b>watertight</b>	<b>west</b> 66:9	73:6,9	<b>zones</b>
,19 76:10	36:19	<b>wet</b> 34:23	75:17	71:19,20
83:12,13,1	<b>website</b> 9:17	35:13	<b>worker</b> 33:20	
5	51:18	<b>we've</b> 13:16	<b>workers</b>	
<b>Victoria's</b>	59:14	18:5,24	58:17	
76:7	<b>we'd</b> 73:22	24:9 28:11	<b>working</b>	
<b>volume</b> 81:5	<b>week</b> 38:16	32:5 33:15	11:19	
82:22	52:22	34:6 37:11	23:24	
<b>VP</b> 40:25	62:12	42:11,12	73:14	
	83:6,7,11	55:16		
	85:11	70:16		
<hr/> W <hr/>	<b>welcome</b> 9:4	<b>whatnot</b> 36:9	<b>works</b> 45:20	
<b>wait</b> 45:7	51:1	<b>whatsoever</b>	<b>worry</b> 85:20	
<b>waiting</b>	<b>we'll</b> 10:24	38:19	<b>worst</b> 15:9	
55:11	17:17	<b>Where's</b>	<b>wou</b> 16:13	
<b>Walbourne</b>	19:3,6	69:11	<b>wrap</b> 30:16	
2:22	20:5	<b>whether</b>	<b>written</b> 21:5	
<b>Wales</b> 61:17	21:5,13	14:22 41:7	35:6	
62:1 68:19	23:24	84:10	<hr/> Y <hr/>	
69:25 70:5	25:21	<b>white</b> 66:13	<b>yard</b> 65:21	
71:3	29:13	<b>whole</b> 44:20	<b>year-round</b>	
<b>warning</b>	35:25 41:1	71:21		
50:22,24	44:22,23,2			
	4,25 45:1			