```
1
       of metals. So, yeah, it does need to be defined
 2
       clearly.
 3
       GREG MISSAL:
                                I think finally, Mr. Chair.
 4
       I would just like to make reference to, I think it
       is Table 4.2 in the Environment Canada submission,
6
       and just to point out and emphasize that we
7
       obviously don't believe that all of these
8
       requirements should be -- all of these discharge
       limits should be regulated limits, if you will
9
10
       recall my slide, I guess it was just this morning,
11
       there were six of the items that we believe should
12
       only be monitored, and we would certainly still
13
       maintain that position.
14
             And then I would also like to add that any
15
       further position that we have on the Environment
       Canada items will be discussed in our closing
16
17
       comments as well. Thank you.
18
       ANNE WILSON
                                     Anne Wilson
       Environment Canada. I would just like to note on
19
20
       the discharge limits that in Table 4.2, technical
       memorandum O, proposed discharge limits. It does
21
22
       state that those were all proposed discharge
       limits, and that was where I had come from on that.
23
24
       Unfortunately not having been here last night for
25
       Kelly's presentation, I wasn't aware that some of
26
       them were to be thresholds. But nonetheless.
```

2 nitrate and arsenic should be regulated as opp	osed
3 to thresholds.	
4 CHAIRMAN: Any further quest	ions?
5 Any questions from the floor to be addressed t	0
6 Environment Canada?	
7 DILLON CONSULTING QUESTIONS ENVIRONMENT CANADA	:
8 Q BRIAN LEECE: Brian Leece, Dill	on
9 Consulting. I'm wondering, Mr. Chairman, if	
10 Environment Canada could provide a rationale f	or
11 why they think it necessary to average hex chr	ome
12 and chrome 3. If I understand it correctly, h	ех
13 chrome is very seldom found in environmental	
14 samples, most of it is converted to chromium 3	. So
15 I am curious as to why they are concerned abou	t
16 averaging hex chrome and chrome 3 for a discha	rge
17 limit for chromium?	
18 A ANNE WILSON: Anne Wilson,	
19 Environment Canada. That is the approach that	has
20 currently been taken in the evaluation of the	Ekati
21 license limits, and I think the big reason beh	ind
22 that is that we don't have specific data on th	at
23 site's composition of the species of chromium.	So
24 it is trying to walk a middle road without say	ing
25 we are going to take the worst-case scenario a	nd
26 assume it is all hexavalent.	

- 1				
	1	Q	BRIAN LEECE:	Just an additional
	2		clarification. Not being fa	miliar with the Ekati,
	3		Mr. Chairman, is there any e	vidence at Ekati that
	4		hex chrome is actually prese	nt?
	5	Α	ANNE WILSON:	Anne Wilson,
	6		Environment Canada. We are	only getting numbers
	7		for total chromium, they are	n't distinguishing the
	8		species.	
	9		CHAIRMAN:	Are there any
	10		questions from DIAND?	
	11		GLEN STEPHENS:	No.
	12		CHAIRMAN:	Any questions from
	13		DFO?	
	14		DERRIK MOGGY:	No questions,
	15		Mr. Chairman.	
	16		CHAIRMAN:	Any questions from
	17		NTI? Any questions from KIA	?
	18		JOHN DONIHEE:	No, sir.
	19		CHAIRMAN:	Any questions from
	20		independent consultants?	
	21		RAMLI HALIM:	No more questions, Mr.
	22		Chair.	
	23		CHAIRMAN:	Any questions from the
	24		Hamlet of Kugluktuk? Thank	you.
	25		CHAIRMAN:	Thank you very much,
	26		Anne Wilson.	
	a .			

1		WATER BOARD STAFF QUESTIONS ENVIRONMENT CANADA:
2	Q	DIONNE FILIATRAULT: Thank you, Mr.
3		Chairman. Anne, based on the presentation that you
4		gave, has Environment Canada verified the
5		monitoring recommendations specific to ammonia
6		against the proposed monitoring that Tahera
7		provided? Can you be a little more specific with
8		respect to location, frequency, parameters and the
9		phase of the project where you feel that there
10		potentially needs to be it needs to be
11		monitored?
12	Α	ANNE WILSON: Anne Wilson,
13		Environment Canada. The timing for ammonia would,
14		of course, be postproduction, as soon as the PKCA
15		is receiving the kimberlite. What is proposed in
16		the most recent draft, which I have just scanned
17		over supper, appears to be adequate in that it is
18		looking at monthly sampling, if I recollect that
19		correctly.
20		And the reason for bringing up the point in
21		the presentation is while we have draft programs in
22		front of us for both the AEMP and the SNP, we
23		haven't got a final SNP or AEMP that we know it is
24		going to be in. So we are making a point, even
25		though the proponent has substantially covered that
26		in the proposed frequency and locations of their

1		monitoring.
2	Q	DIONNE FILIATRAULT: So, Mr. Chairman, so
3		this point you are agreeing with the proposal of
4		monthly monitoring?
5	Α	ANNE WILSON: Anne Wilson, for
6		ammonia, I'm sorry, yes. Because our concern is
7		largely going to be with the concentrations in the
8		PKCA. The downstream concentrations will be picked
9		up in the AEMP.
10	Q	DIONNE FILIATRAULT: Mr. Chairman, in the
11		presentation under Recommended Criteria, you had
12		some discussion with Tahera, and I'm not sure I
13		kind of caught it all. But based on what you
14		submitted, dissolved aluminum is of concern at
15		freshet. Is it expected to be a concern after that
16		freshet for the next three months of discharge?
17		And, I guess, would it be appropriate to set two
18		levels or recommended criteria, one that would be
19		imposed at freshet and one that would be imposed
20		for the other three months of the period of
21		discharge? That's one concept.
22		And the other is, the proposed limits that
23		are submitted by Tahera, ultimately do they protect
24		freshwater aquatic life, which I think is the
25		bottom line of what Environment Canada is trying to
26		achieve?

1	Α	ANNE WILSON: Anne Wilson. To start
2		with the question about freshet and thinking of
3		different limits, the period at which we don't feel
4		those limits, the proposed limits would be
5		protective would be at freshet when we have the
6		lowest dilution. There is going to be that brief
7		period of time where it is only ten to one, the
8		concentrations under, I think, two of the scenarios
9		could be into levels that are not protective.
10		With respect to the rest of the limits, other
11		than the chromium and the nitrite, we feel that
12		Tahera has done an excellent job of developing
13		criteria and water quality objectives.
14	Q	DIONNE FILIATRAULT: Mr. Chairman, in the
15		submission, you also make reference, and I am
16		looking for some clarification with respect to the
17		faecal coliform limit of a hundred that you have
18		proposed. From the perspective that you had
19		indicated that if you are planning to recycle water
20		through the processing plant, that the faecal
21		coliform limit from basically you can't have any
22		faecal coliform limits in the PKCA.
		So are we are you saying that the option
23		
2324		is is that if we want on balance, there is two
		is is that if we want on balance, there is two options here, one is we discharge from the waste

```
1
       effluent level that the proponent has proposed, but
2
       then they would not be able to recycle, because
3
       there is known faecal coliforms in the effluent
       water from the PKCA?
4
5
      ANNE WILSON:
                                     Anne Wilson.
                                                   The
    Α
6
       sewage treatment package, which was detailed in the
7
       recent submissions, does propose to have
       ozonization and disinfection. I believe it would
8
9
       be disinfection; it had two options listed there,
10
       and should not have any -- it should have full
11
       disinfection. There shouldn't be any faecal
12
       coliforms when it is going into the PKCA. So there
13
       shouldn't be any reason not to recycle, but it
       should be tested annually. And if they are going
14
15
       to recycle, then there shouldn't be a hundred
       limit, there should be no faecal coliforms for
16
17
       human health concerns, of course.
       VICE-CHAIRMAN:
                                     Just for
18
       clarification, the interpreters are having a
19
       problem with the acronyms that you are constantly
20
21
       using. There is no Inuktitut for acronyms, so if
22
       you can perhaps tell them what it is. Like SNP and
23
       AEMPs, and so forth. They just dropped us a note,
       and they don't know what it is.
24
       DIONNE FILIATRAULT:
                                     Mr. Chairman, for the
25
26
       clarification of what some of the acronyms are,
```

1	AEMP refers to the aquatic effects monitoring
2	program which is the sampling program proposed by
3	the proponent to assess aquatic effects.
4	The TSS is total suspended solids. TDS is
5	total dissolved solids. SNP is a standard industry
6	I guess in the NWT, they use that as part of
7	their monitoring stations, as opposed to, I guess,
8	practice for the Board is to use the like for
9	the Jericho Type B license, it is JER1. All their
10	stations are all SNP numbers.
11	CHAIRMAN: Further questions?
12	DAN JOHNSON: Just a clarification,
13	Mr. Chairman. In any reclaim system, we would
14	always get our potable water from Carat Lake, that
15	system would always stay. So we never flipped our
16	sewage into a lake and then draw our potable water
17	out of the same reclaim basin. We will always draw
18	all our potable water out of Carat Lake, even if we
19	do reclaim some water out of the PKCA.
20	So I think in the context of setting zero
21	faecal coliform limits in the return water is not a
22	requirement because we wouldn't put that into our
23	water purification plant to begin with.
24	CHAIRMAN: Any further questions
25	for Environment Canada?
26 Q	DIONNE FILIATRAULT: I guess I would just

1		ask, frame that in the form	of a question to
2		Environment Canada. Is that	your understanding as
3		well, and is that agreeable	to what limits you are
4		proposing or suggesting?	
5	Α	ANNE WILSON:	Anne Wilson. No, of
6		course the potable water is	coming from a different
7		source, and it is more of an	industrial human
8		health risk that was imposed	at the Ekati mine,
9		because they do put their tr	eated sewage now into
10		their tailings containment f	acility, and there has
11		been the concern for their r	ecycled water for
12		worker health in the mill.	And certainly there is
13		no potable water connection	there.
14		CHAIRMAN:	Any further questions
15		from the staff?	
16		DIONNE FILIATRAULT:	
		DIONNE TIETATRAGET.	I believe Steve has
17		some questions, Mr. Chairman	
17 18	Q		
0.42.5	Q	some questions, Mr. Chairman	Stephen Line, Nunavut
18	Q	some questions, Mr. Chairman STEPHEN LINES:	Stephen Line, Nunavut e question,
18 19	Q	some questions, Mr. Chairman STEPHEN LINES: Water Board. I just have on	. Stephen Line, Nunavut e question, rding the use of
18 19 20	Q	some questions, Mr. Chairman STEPHEN LINES: Water Board. I just have on Mr. Chairman, and it is rega	Stephen Line, Nunavut e question, rding the use of hronic toxicity
18 19 20 21	Q	some questions, Mr. Chairman STEPHEN LINES: Water Board. I just have on Mr. Chairman, and it is rega Ceriodaphnia dubia for the c	Stephen Line, Nunavut e question, rding the use of hronic toxicity ard it during the last
18 19 20 21 22	Q	some questions, Mr. Chairman STEPHEN LINES: Water Board. I just have on Mr. Chairman, and it is rega Ceriodaphnia dubia for the ctesting. I might have mishe	Stephen Line, Nunavut e question, rding the use of hronic toxicity ard it during the last I heard that it takes
18 19 20 21 22 23	Q	some questions, Mr. Chairman STEPHEN LINES: Water Board. I just have on Mr. Chairman, and it is rega Ceriodaphnia dubia for the ctesting. I might have mishe intervention, but I believe	Stephen Line, Nunavut e question, rding the use of hronic toxicity ard it during the last I heard that it takes city test results from

1 from the PKCA. So I'm wondering if there is any 2 other species that can be used that could provide 3 faster test results? 4 And during Environment Canada's intervention, 5 it was spoken a lot about the Ekati experience, and 6 I am wondering if that's the species that's used at 7 Ekati, and if there is any major problem at that 8 mine with regard to chronic toxicity testing? 9 ANNE WILSON: Α Anne Wilson. 10 Environment Canada. Just to clarify, the chronic 11 test should be done with samples from the receiving 12 environment at the end of the discharge, not before 13 discharge. I think the previous intervenors had 14 recommended doing that on an investigative basis 15 with undiluted effluent as a lab test, not as a 16 field monitoring tool. 17 And just with reference to the Ekati site, 18 there will be chronic toxicity testing in their 19 renewal license. There was not that requirement in their first license, which was the first diamond 20 21 licence in the territories, and it has only had 22 acute toxicity testing in it. 23 DIONNE FILIATRAULT: O Thank you. Mr. Chairman. I did have two more. One was with 24 respect to the submission that Tahera had made, 25 and in your review, and you did mention flocculent 26

- 1		
	1	addition options, there was a statement in the
	2	documentation in a letter to Bruce Ott, and I refer
	3	to Appendix E, and it said that Environment Canada
	4	wanted to receive some information prior to the
	5	water licensing phase. And I just want to confirm
	6	with Environment Canada that any issues that were
	7	raised in that letter have been addressed to their
	8	full satisfaction?
	9 A	ANNE WILSON: Anne Wilson. Can you
	10	just give me the date of the letter and who it was
	11	we have had a number of pieces of
	12	correspondence. Most of the recent correspondence
	13	has been to do with which baseline data were being
	14	collected and when they would be available.
	15 0	DIONNE FILIATRAULT: Yes, Mr. Chairman. It
	16	is 28th of May 2004, to attention Greg Missal
	17	Flocculent Addition, from Bruce Ott. One page.
	18 A	ANNE WILSON: That issue has
	19	been sort of lesser concern now. We have had some
	20	further studies done and learned that the toxicity
	21	of flocculents is very minimal. It is the
	22	coagulants that tend to cause problems, and they
	23	have a chronic toxicity effect on the cladocerans.
	24	Recent work on young trout have shown that
	25	the levels at which we would see acute or chronic
	26	toxicity are well above anything that you would see

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1
       in any of the mine supernatant when they were
 2
       adding coagulants and flocculents. And if you
 3
       would like that report, I can certainly put it on
       the record.
 4
       DIONNE FILIATRAULT:
 5
                                     Mr. Chairman, just a
6
       point of clarification. It probably would be
7
       useful for the Board to have that information
       filed.
8
             Second, the final slide that you had shown.
       and there was a little bit of discussion at the end
10
11
       of how do we define this and how do we define that.
12
       I'm wondering if Environment Canada could provide
13
       some proposed definitions for the list that they
14
       provided, preferably early tomorrow so that then
       Tahera and the other parties could have an
15
16
       opportunity to review those and provide
       clarification on potential definitions that might
17
18
       be put into a water license?
                                     That would be fine.
19
       ANNE WILSON
20
       Can I just narrow down which ones we would like as
21
       to being the definitions discussed for ARD and for
22
       seepage, and was that it?
       DIONNE FILIATRAULT:
                                     Mr. Chairman, actually
23
24
       I would propose that they all be defined, if
25
       possible.
```

26

A ANNE WILSON:

Anne Wilson, I will

1		try and get that to you by the end of tonight, and
2		if not, it will be tomorrow morning.
3	Q	DAVE HOHNSTEIN: Thank you, Mr.
4		Chairman, Dave Hohnstein. I just had a couple of
5		clarification questions for some terminology that
6		was used in the submission.
7		Would you be able to provide us with a
8		definition of what carefully monitored is referring
9		to? I believe it was under ammonium monitoring. I
10		think we got clarification on some of the sewage
11		parameters, but there was one the ammonia one
12		that we are still wondering about.
13		And also under water chemistry there was
14		reference to monitoring of water chemistry should
15		be done often enough to identify seasonal long-term
16		changes. And I was wondering if you could provide
17		us with what an idea of what enough might refer to,
18		whether it is weekly, monthly, that sort of thing?
19		Thank you.
20	Α	ANNE WILSON: Anne Wilson. With
21		respect to the ammonia, I think that monitoring
22		carefully is going to entail monitoring on the
23		frequency that is prescribed under the license,
24		ensuring that we know at the same time the
25		temperature and pH of the water so we can determine
26		the toxicity of the ammonia form. And the most

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1
       important part will be taking the action, if we do
2
       see high levels developing over time, to inform the
3
       Water Board, inform any of the stakeholders, and
4
       get started on contingency planning. So it is
 5
       doing the routine monitoring and just being mindful
6
       with the results.
7
             And as far as -- can you just give me a
       context for the other question as to a parameter
8
9
       and a site?
10
       DAVE HOHNSTEIN:
                                     Sorry, Mr. Chairman
11
       I made this note out of the submission, and I'm not
12
       too sure, I would have to go back to review it out
13
       of the submission. But it is simply referred to as
14
       monitoring of water chemistry being done often
15
       enough to identify seasonal long-term changes.
16
             So I guess just trying to get an idea of what
       the frequency might be that Environment Canada
17
       would recommend.
18
                                     Anne Wilson.
19
      ANNE WILSON:
                                                   That's
       where it would be very helpful for us to have an
20
21
       AEMP in front of us to review, and we can comment
       on a site-by-site parameter-by-parameter basis.
22
       And it is a little difficult just the -- as far as
23
       the SNP goes, the frequencies that I saw in the
24
25
       revised document appeared to be acceptable,
26
       certainly the scope of the parameters was
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1
       acceptable. But we haven't seen the full details
2
       on an AEMP yet. I'm sorry, the aquatic effects
3
       monitoring program. And rather than SNP, I should
4
       be saying a surveillance network program, sorry to
 5
       the translators for that.
6
       DAVE HOHNSTEIN:
                                     Mr. Chairman, just
7
       going back to the submission, it was in reference
8
       to changes in major ion, nutrient and metal
       concentrations. So it looks like it is, you know,
9
10
       the sampling regime and, you know, trying to
11
       understand how often we might be requesting
12
       sampling. And, again, you did mention the AEMP,
13
       and I guess we should have preference to that too.
14
       ANNE WILSON:
                                     Anne Wilson,
15
       Environment Canada. I think that this is where we
16
       would like to see the adaptive management come in
       on the part of the company. If we are seeing a lot
17
18
       of null results in the monitoring, then we wouldn't
       worry so much about stepping up the intensity or
19
20
       the frequency of the monitoring. If we were seeing
21
       changes that can't be explained or that weren't
22
       predicted, then we would want to see more frequent
23
       monitoring and investigation of it. So it is very
24
       difficult to make blanket statements.
25
       CHAIRMAN:
                                     Do we have any further
       questions from the staff?
26
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1		DIONNE FILIATRAULT:	No, Mr. Chairman, I
2		think we are done.	
3		CHAIRMAN:	Thank you. Thank you,
4		Anne. Let's take a ten-minu	te break.
5			(BRIEF ADJOURNMENT)
6		CHAIRMAN:	Welcome back.
7		Environment Canada, Anne Wil	son, there is one quick
8		question just for clarificat	ion apparently, Anne.
9	Q	DIONNE FILIATRAULT:	Just to clarify for
10		the parties and people that	over the break,
11		Tahera and Environment Canad	la actually resolved an
12		issue on one of the discharg	e parameters. And I
13		believe that it is beneficia	l, even though Anne was
14		dismissed, to bring her back	to the table. It just
15		makes the Board's job that m	nuch easier.
16		So if everybody is oka	y with that?
17	Α	ANNE WILSON:	Anne Wilson,
18		Environment Canada. I would	l just like to note that
19		the proponent has made a ver	y good suggestion with
20		resolving the concern with s	easonally high levels
21		of aluminum in the receiving	environment, and that
22		we could have a regulatory 1	imit which covered the
23		dissolved form, as well as t	he total form, and that
24		would address our concerns w	vith the protection of
25		aquatic life.	
26		BILL TILLEMAN:	Thank you,

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Mr. Chairman. Also there is a report that
1
2
       Environment Canada was going to file, and so
       whatever one what was, if they could get it to the
3
4
       Board before the end of the hearing. So if she
5
       could tend to that, then I would appreciate that.
       And Dionne has one more thing while I get prepared
6
7
       to swear in Mr. Moggy
8
       (EXHIBIT TO BE MARKED WHEN RECEIVED)
       DIONNE FILIATRAULT
                                    It is probably just
9
10
       the terminology that I used. I just want to make
11
       clear that actually it is resolved only between
12
       Tahera and Environment Canada at this point. It is
13
       still subject to discussion by the parties, if they
14
       so wish, in their submissions and evidence. It is
15
       an option.
16
       CHAIRMAN:
                                    Thank you.
17
       LICENSEE CONTINUES QUESTIONING ENVIRONMENT CANADA:
      KELLY SEXSMITH:
18
                                    Mr. Chair, with your
       permission I would like to ask one more question.
19
       Anne, could you just clarify for the record what
20
21
       the concentrations that we discussed would be for
22
       those two parameters?
23
    A ANNE WILSON:
                                    Anne Wilson
       Environment Canada. I will have to bring that to
24
25
       the table tomorrow as I don't have in my head the
       correct numbers for dissolved aluminum that would
26
```

1	be protective. So if I can defer that and bring
2	that to my closing comments or otherwise tomorrow.
3	CHAIRMAN: Okay. Next
4	presentation is done by DFO.
5	BILL TILLEMAN: Thank you,
6	Mr. Chairman. And so as Fisheries and Oceans is
7	getting ready to present, we will mark the next two
8	exhibits as the electronic copy which the Water
9	Board staff now have, and also a hard copy. And so
10	whatever numbers those are, Ms. Filiatrault is
11	already filling them in, 10 and 11. Thank you, Mr.
12	Vice-chair. Let's swear in Mr. Moggy and go from
13	there.
14	EXHIBIT NO. 10:
15	ELECTRONIC COPY OF DEPARTMENT OF FISHERIES
16	AND OCEANS' PRESENTATION
17	EXHIBIT NO. 11:
18	HARD COPY OF DEPARTMENT OF FISHERIES AND
19	OCEANS' PRESENTATION
20	BILL TILLEMAN: Please state your name
21	for the record, and spell your last name.
22	DERRIK MOGGY: Derrik Moggy,
23	M - O - G - G - Y .
24	(DERRIK MOGGY SWORN)
25	BILL TILLEMAN: Thank you.
26	PRESENTATION BY DEPARTMENT OF FISHERIES AND OCEANS:

1	DERRIK MOGGY Thank you, Mr. Chair
2	My name is Derrik Moggy. I'm a habitat biologist
3	with Fisheries and Oceans Canada in Iqaluit.
4	Fisheries and Oceans Canada is pleased to
5	have the opportunity to participate in the Nunavut
6	Water Board process and provide the Board with our
7	comments and recommendations for the Jericho
8	diamond project.
9	Before I start, I would like to provide a
10	brief outline of our presentation. At first, I
11	would like to take a moment to go over the role of
12	Fisheries and Oceans Canada and the regulatory
13	process for the Jericho diamond project.
14	Although we have provided detailed
15	intervention comments that were submitted to the
16	Water Board on November 30th, I would like to
17	present a summary of the outstanding concerns from
18	Fisheries and Oceans. I would also like to present
19	the means to which Tahera and DFO have resolved
20	these issues, or the recommendations that Fisheries
21	and Oceans will be presenting to the Water Board,
22	as a result.
23	In addition, I would like to present an
24	overview of the status of our no net loss plan.
25	And, finally, I would like to follow up with
26	Fisheries and Oceans' concluding statements.

The mandate of Fisheries and Oceans Canada is to conserve fish habitat, fish and fish habitat, to ensure sustainable fisheries for Canadians. The Fisheries Act provides the legal basis for this responsibility and its federal legislation established to manage and protect Canada's fisheries resources. It contains specific sections designed to protect fish and fish habitat referred to as the habitat protection provisions of the Fisheries Act.

Subsection 35(1) of the Fisheries Act states that no person shall carry out any work or undertaking that results in the harmful alteration, disruption or destruction of fish habitat, commonly referred as HADD. Where it cannot be avoided or mitigated, the minister of Fisheries and Oceans Canada may authorize the HADD of fish habitat pursuant to Subsection 35(2). This provides the means and conditions for allowing development projects to proceed.

In accordance with Fisheries and Oceans'
policy for the management of fish habitat and its
guiding principle of no net loss of productive fish
habitat, authorizations are generally issued on the
condition that acceptable measures to compensate
for any unavoidable habitat losses are developed

1 and implemented by the proponent.

When we refer to compensation, we mean the creation or improvement of fish habitat to balance off any losses.

In addition to the policy, the habitat conservation and protection guidelines outline the standard approach to habitat conservation and protection through the application of the no net loss principle. The guidelines outlined the hierarchy of preferences to achieve no net loss, and includes the use of redesign, relocate and mitigation to protect fish habitat. Habitat compensation is considered only after all other options have been discounted with adequate rationale.

Some of the other relevant sections of the Fisheries Act include the provision of safe fish passage, the authority to ensure water intakes are designed to prevent entrainment and impingement and the prevention of the destruction of fish by means other than fishing. And just to clarify, entrainment occurs when a fish is drawn into a water intake and cannot escape, while impingement occurs when entrapped fish is held in contact with the intake screen and is unable to free itself.

The use of explosives in and around fish