

**Subject:** FW: \*\*\*\*\*SPAM\*\*\*\*\* RE: Questions regarding April 13th Submission.

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**From:** Gregory Smyth [mailto:gsmyth@knightpiesold.com]

**Sent:** Friday, April 23, 2010 10:46 AM

**To:** Summers, John; Silverstein, Adam; Roderick Bell-Irving

**Cc:** Prosperity Review [CEAA]

**Subject:** \*\*\*\*\*SPAM\*\*\*\*\* RE: Questions regarding April 13th Submission.

John

I've reviewed the numbers and provide the following clarification:

- 8040 m2 of instream habitat
- 8900 m2 of deep-pool habitat
- 1500 m2 of spawning habitat
- Total habitat (sum of three types above) = **18,440 m2**

The sum total of 16,400 m2 found at the bottom of page 29 of 50 is an error. Apologies for the confusion.

Your assumption about the existing riparian forest outside of the 2 metre strip being kept largely intact is correct. The spoil will be removed and used elsewhere for the project.

Kind Regards,

.....  
**Greg Smyth**

Senior Project Manager

**Knight Piésold Ltd.**

.....  
Suite 1400 - 750 West Pender

Vancouver | British Columbia | Canada | V6C 2T8

**phone:** +1 604 685 0543 | **fax:** +1 604 685 0147

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**From:** Summers, John [mailto:John.Summers@dfo-mpo.gc.ca]  
**Sent:** Thursday, April 22, 2010 3:03 PM  
**To:** Gregory Smyth; Silverstein, Adam; Roderick Bell-Irving  
**Cc:** Prosperity Review [CEAA]  
**Subject:** RE: Questions regarding April 13th Submission.

Thank you Greg.

Just to ensure I have the correct dimensions for the proposed Lower Fish Creek groundwater channels, please confirm the following, from page 30 of 50:

Total Instream Habitat: 16, 400 square meters which includes:

8900 square meters of deep pool habitat  
1500 square meters of spawning habitat  
6000 square meters of undefined habitat (derived from 16400-1500-8900)

There is also a reference to 8040 square meters of 'instream habitat.' Please clarify what this is, or if is already included within the numbers above somehow.

I understand that a 2 meter strip of riparian around the perimeter of the channels will be revegetated. I assume the existing riparian forest outside of this 2 meter strip will largely be kept intact, and that spoil will be removed from site as opposed to sidecast?

Please confirm these points such that I can finalize calculations.

Appreciated as always,  
Regards,

*John Summers*

Senior Habitat Biologist, Major Projects/MPMO  
Department of Fisheries and Oceans  
3690 Massey Drive  
Prince George, BC  
V2N 2S8  
phone: 250-561-5394  
Fax: 250-561-5534

**Please note new e-mail address: john.summers@dfo-mpo.gc.ca**

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**From:** Gregory Smyth [mailto:gsmyth@knightpiesold.com]  
**Sent:** April 21, 2010 5:21 PM  
**To:** Summers, John; Silverstein, Adam; Roderick Bell-Irving  
**Cc:** Prosperity Review [CEAA]  
**Subject:** RE: Questions regarding April 13th Submission.

John

I've attached an Excel file with the values for the two wells.

I've also attached a location figure from the EIS which shows where these two GW wells are in relation to lower Fish Creek.

I found the Surface WQ sampling location from the EIS, as well as a summary table from Volume 5 for each of the creeks in the area (Table 2-10). More detailed data and analysis for WQ is in Volume 5 of the EIS if you'd like something more than just the means. I do not have the Excel files for the WQ data, unfortunately, but just what is in the EIS Report.

If you require anything more, please let me know.

Kind Regards,

.....  
**Greg Smyth**

Senior Project Manager  
**Knight Piésold Ltd.**

.....  
Suite 1400 - 750 West Pender  
Vancouver | British Columbia | Canada | V6C 2T8  
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**From:** Summers, John [mailto:John.Summers@dfo-mpo.gc.ca]  
**Sent:** Wednesday, April 21, 2010 1:44 PM  
**To:** Gregory Smyth; Silverstein, Adam; Roderick Bell-Irving  
**Cc:** Prosperity Review [CEAA]  
**Subject:** RE: Questions regarding April 13th Submission.

Greg, would you mind forwarding the values of the dissolved and total metals for Monitoring well 92-18 and 92-204, as well an airphoto or map showing their location please? I'm particularly interested in the numbers which exceeded guidelines. Further, if you have background samples for Taseko or Fish Creek for comparison (including location information) that may be helpful as well.

Thanks.  
Regards,

*John Summers*

Senior Habitat Biologist, Major Projects/MPMO  
Department of Fisheries and Oceans  
3690 Massey Drive  
Prince George, BC  
V2N 2S8  
phone: 250-561-5394  
Fax: 250-561-5534

*Please note new e-mail address: john.summers@dfo-mpo.gc.ca*



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**From:** Gregory Smyth [mailto:gsmyth@knightpiesold.com]  
**Sent:** April 21, 2010 8:39 AM  
**To:** Summers, John; Silverstein, Adam; Roderick Bell-Irving  
**Cc:** Prosperity Review [CEAA]  
**Subject:** RE: Questions regarding April 13th Submission.

John

I don't think so. I was thinking, as the spillway between PL and Wasp is for operations only, and will be decommissioned afterwards. A closure spillway will go in between PL and TSF at closure. I've provided lengths for both of these.

Kind Regards,

Greg

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**From:** Summers, John [mailto:John.Summers@dfo-mpo.gc.ca]  
**Sent:** Tuesday, April 20, 2010 3:53 PM  
**To:** Gregory Smyth; Silverstein, Adam; Roderick Bell-Irving  
**Cc:** Prosperity Review [CEAA]  
**Subject:** RE: Questions regarding April 13th Submission.

Hi, Greg.  
If these numbers are different between Mine Life and Closure/Reclamation, please let us know.  
Thanks.

*John Summers*

Senior Habitat Biologist, Major Projects/MPMO  
Department of Fisheries and Oceans  
3690 Massey Drive  
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V2N 2S8  
phone: 250-561-5394  
Fax: 250-561-5534

*Please note new e-mail address: john.summers@dfo-mpo.gc.ca*

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**From:** Gregory Smyth [mailto:gsmyth@knightpiesold.com]  
**Sent:** April 20, 2010 10:57 AM  
**To:** Silverstein, Adam; Roderick Bell-Irving  
**Cc:** Prosperity Review [CEAA]; Summers, John  
**Subject:** RE: Questions regarding April 13th Submission.

Adam

Some responses in **Blue**.

Kind Regards,

Greg

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**From:** Silverstein, Adam [mailto:Adam.Silverstein@dfo-mpo.gc.ca]  
**Sent:** Monday, April 19, 2010 4:12 PM  
**To:** Silverstein, Adam; Roderick Bell-Irving; Gregory Smyth  
**Cc:** Prosperity Review [CEAA]; Summers, John  
**Subject:** Questions regarding April 13th Submission.

My apologies - I forgot one other item:

Please define the length of the dam between Prosperity Lake and the TSF, the spillway, and any other retention dams or other areas not expected to be planted. We will also need this for the HCRP. **The length of the following structures are as follows:**

- **Prosperity Lake Dam (between PL & TSF) = 1,550 metres**
- **Prosperity Lake Spillway to Wasp Lake = 210 metres**
- **Prosperity Lake Dam Spillway at Closure (between PL & TSF) = 88 metres**
- **HRP Dams = 1,250 metres**

**When you say areas not expected to be planted, are you asking from a Closure and Reclamation point of view?**

Thanks,  
Adam

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**From:** Silverstein, Adam  
**Sent:** Monday, April 19, 2010 4:10 PM  
**To:** 'Roderick Bell-Irving'; Greg Smyth (gsmyth@knightpiesold.com)  
**Cc:** 'Prosperity Review [CEAA]'; Summers, John  
**Subject:**

Rod, Greg,

We are reviewing the new material provided last week as expeditiously as possible. Could you please clarify the following points for us?

Table 3-14, page 3-40 of Volume 5 of original EIS:

The critical summer low flow volume and width values are greater than the bankfull width and area calculations. In our original submission, we assumed these were reversed. Can you please confirm?

Page 7 of 50 of the April 13th submission indicates that 53,444m<sup>2</sup> of non fish bearing habitat will be lost or altered from mine activities. It would be helpful if you could name which tributaries and reaches specifically will be impacted by mine development activities, as the numbers do not appear to match

those derived by DFO using the information within the EIS.

Section 4.3, page 7 and 8 of the April 13th submission: The first line suggests that Middle Fish Creek is defined as both Middle and Upper Fish Creek, and that Upper Fish Creek is comprised of Reaches 7 through 10. Please confirm that the definition of Middle Fish Creek is only fish creek between the barrier and Fish Lake, and that Fish Lake and Little Fish Lake are, in fact, Reaches 7 and 9. The second paragraph of this section then goes on to name upper Fish Creek, but it appears that the amount is for both Middle and Upper Fish Creek.

Please confirm whether 'life of mine' includes the time needed to fill the pit or not.

Thanks for your help,

**Adam Silverstein**

Pacific Region Manager

Habitat Protection and Sustainable Development

Oceans, Habitat & Enhancement Branch

Fisheries and Oceans Canada, Pacific Region

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