

Jager, Brenda CSNR:EX

From: Li, Yi FLNR:EX
Sent: Wednesday, March 29, 2017 9:13 AM
To: Nield, Lora M FLNR:EX
Subject: RE: section 11 approval
Attachments: Emergency Flood TC.doc.rtf

This is the attachment in Trevor's email.

Yi

From: Li, Yi FLNR:EX
Sent: Wednesday, March 29, 2017 9:12 AM
To: Nield, Lora M FLNR:EX
Subject: FW: section 11 approval

FYI

From: Li, Yi FLNR:EX
Sent: Wednesday, March 29, 2017 8:56 AM
To: Bohay, Trevor FLNR:EX; Warner, Robert FLNR:EX
Cc: Oetter, Andy FLNR:EX; Crampton, Ray W FLNR:EX
Subject: RE: section 11 approval

Thanks Trevor,
Don has sent more details on his plan. I'll reply an email to him today. The habitat conditions will be forwarded to Tod. Ecosystems section may also address something.

Yi

From: Bohay, Trevor FLNR:EX
Sent: Wednesday, March 29, 2017 8:50 AM
To: Warner, Robert FLNR:EX; Li, Yi FLNR:EX
Cc: Oetter, Andy FLNR:EX; Crampton, Ray W FLNR:EX
Subject: RE: section 11 approval

Thanks Yi,
I appreciate you helping Bob with this one. I'm in your office if you want to discuss. Did they also get a set of emergency conditions for habitat? Something like the attached could be easily modified for this situation.
Cheers

T

From: Warner, Robert FLNR:EX
Sent: Tuesday, March 28, 2017 4:27 PM
To: Li, Yi FLNR:EX
Cc: Bohay, Trevor FLNR:EX; Oetter, Andy FLNR:EX; Crampton, Ray W FLNR:EX
Subject: FW: section 11 approval

Excellent!

Thanks for the prompt attention to this Yi!

From: Li, Yi FLNR:EX
Sent: Tuesday, March 28, 2017 4:20 PM
To: Warner, Robert FLNR:EX; Bohay, Trevor FLNR:EX
Subject: RE: section 11 approval

Hi Bob,

Since it is an urgent scenario, Don's plan looks good.

I have contacted Don and Kerry. I agreed with them to proceed with the plan asap. I suggested to submit a notification for the emergency work. (The road is authorized under FRPA. Hence a WSA S11 notification applies to the work.) In the meantime, I strongly recommended to undertake a geotechnical assessment for the slope.

Don agrees to submit a notification, and will provide more details soon.

Regards

Yi

From: Warner, Robert FLNR:EX
Sent: Tuesday, March 28, 2017 2:41 PM
To: Li, Yi FLNR:EX
Subject: RE: section 11 approval

Much Appreciated Yi- thanks!

From: Li, Yi FLNR:EX
Sent: Tuesday, March 28, 2017 2:40 PM
To: Warner, Robert FLNR:EX
Subject: RE: section 11 approval

Hi Bob,

I am reading the emails. I'll contact Kerry soon.

Regards

Yi

From: Warner, Robert FLNR:EX
Sent: Tuesday, March 28, 2017 2:39 PM
To: Li, Yi FLNR:EX
Subject: FW: section 11 approval

Hi Yi

Trevor's phone is off can you talk with him and see the best approach for this- or maybe you know and can help Kerry out.

thanks

From: Kerry Rouck [<mailto:KerryRouck@GormanBros.com>]
Sent: Tuesday, March 28, 2017 2:01 PM

To: Warner, Robert FLNR:EX; Bohay, Trevor FLNR:EX
Cc: Schell, Steve E FLNR:EX; Li, Yi FLNR:EX
Subject: RE: section 11 approval

Hi,

Here's a couple of photos that I've annotated to help with the description of what's going on.

The stream has moved into the road fill (fill has been there for 20+ years) causing the slump to occur. The slump has settled in the stream. Don Dobson's recommendation is to get an excavator into the location on the "old road" on the north side to put the stream back into one of the old channels on the floodplain. See annotations. Don's opinion is that doing so will be the fastest way for Peachland to rescind the boil water advisory.

Don is representing the District Of Peachland on this one.

This is urgent, so if we can get authority to do this today, that'd be great. We have equipment lined up and can have the work done in very short order.

Please call me as soon as possible to figure out how to proceed to next steps.

Thanks,

Kerry

From: Warner, Robert FLNR:EX [<mailto:Robert.Warner@gov.bc.ca>]
Sent: Tuesday, March 28, 2017 1:24 PM
To: Bohay, Trevor FLNR:EX <Trevor.Bohay@gov.bc.ca>
Cc: Schell, Steve E FLNR:EX <Steve.Schell@gov.bc.ca>; Li, Yi FLNR:EX <Yi.Li@gov.bc.ca>; Kerry Rouck <KerryRouck@GormanBros.com>
Subject: section 11 approval

Hi Trevor

Peachland has issued a boil water advisory in response to a mini slump off the Munro FSR. Reps from Gorman Brothers and Don Dobson are on site and are awaiting an approval to put the water back to where it should be going. Sketchy on details but Kerry Rouck is the contact from Gormans 250-768-6220. Can you or one of your staff please contact him for the details and advise as appropriate.

thanks



Bob Warner RPF
Resource Manager
250-490-8232
C250-462-8887
Okanagan Shuswap Natural
Resource District
Ministry of Forests, Lands and
Natural Resource Operations



December 14, 2016

Thompson Habitat Officer Terms and Conditions

The following Terms and Conditions are provided pursuant to 39 (1) of the *Water Sustainability Act* Regulation, and are only in effect for extenuating circumstances related to flooding, or potential flooding.

The intent of this document is to provide the applicant the opportunity to clear an obstruction, or pending obstruction, from a culvert or bridge during a flood event, or an impending flood event, when there exists a potential danger to life or property.

The applicant is required to submit a plan, in accordance with a Notification application, either prior to initiating works, or within 24 hours of works being initiated. The application is at the following site:

<http://www.frontcounterbc.gov.bc.ca/browse.html> .

Damage to the environment, beyond that accounted for in the Terms and Conditions, must be remediated within 6 months from when the works occurred, and reported to the Habitat Officer within 72 hours from when the damage occurred.

1. Debris removed from the stream channel is to be placed above the high water mark, such that it will not be reintroduced into the stream, and will not result in sediment delivery into the stream;
2. Minimize the disturbance to riparian vegetation; and
3. Restore denuded lands such that they do not contribute to sediment delivery to the stream within 6 months of the work.



Mark Phillpotts, Habitat Officer



STUVR0 fSR

SEUMP
MAR 29/17



OLD ROAD

move to 456

Slump MAR 28/11

MUNRO FSR

Jager, Brenda CSNR:EX

From: Li, Yi FLNR:EX
Sent: Wednesday, March 29, 2017 9:30 AM
To: 'Don Dobson'
Cc: 'Kerry Rouck'; JeffHatch@GormanBros.com; 'Suzan Lapp'; jmitchell@peachland.ca; Warner, Robert FLNR:EX; Nield, Lora M FLNR:EX; Bohay, Trevor FLNR:EX
Subject: RE: Peachland Creek Slide

Thanks Don,

Just in case. Please pay attention to the ownership of that proposed channel section. An appropriate consent may be needed.

Lora will address ecosystems concerns.

As discussed yesterday, please document important details (such as your design...), which will be included in the Notification application.

It has been recommended that, after the emergent relocation, a solid geotechnical assessment be undertaken for the slope (and even the adjacent area), which may be at risk now, particularly considering the incoming freshet.

Regards
Yi

From: Don Dobson [<mailto:ddobson@dobsoneng.com>]
Sent: Tuesday, March 28, 2017 5:22 PM
To: Li, Yi FLNR:EX
Cc: 'Kerry Rouck'; JeffHatch@GormanBros.com; 'Suzan Lapp'; jmitchell@peachland.ca; Warner, Robert FLNR:EX
Subject: Peachland Creek Slide

Yi;

I have attached a KMZ showing the location of the slide and also a clip from Google Earth of the location off the Munro FSR and the proposed channel relocation. I have also attached 2 photos of the slide.

I am confirming your phone call this afternoon advising that the channel relocation work can commence tomorrow morning, March 29th. A contractor will be onsite at 0800 tomorrow morning to start work. The relocation should take about 2 days to complete. I will be onsite on Thursday for the opening of the new channel. Suzan Lapp will be on site tomorrow to assist the contractor with site clearing and stripping. A Geotech consultant, engaged by Gorman Bros. Lumber will also be onsite tomorrow as will staff from Gorman Bros. Lumber that holds the current road permit.

The new channel will be approximately 75 m long by 4 m wide and will mostly follow an old high water channel that is located north of the toe of the slide. The channel will be constructed in the dry and flow will be introduced gradually to minimize sedimentation. The District of Peach will be kept informed as the work proceeds.

We will submit a Notification as you requested after the restoration work is completed.

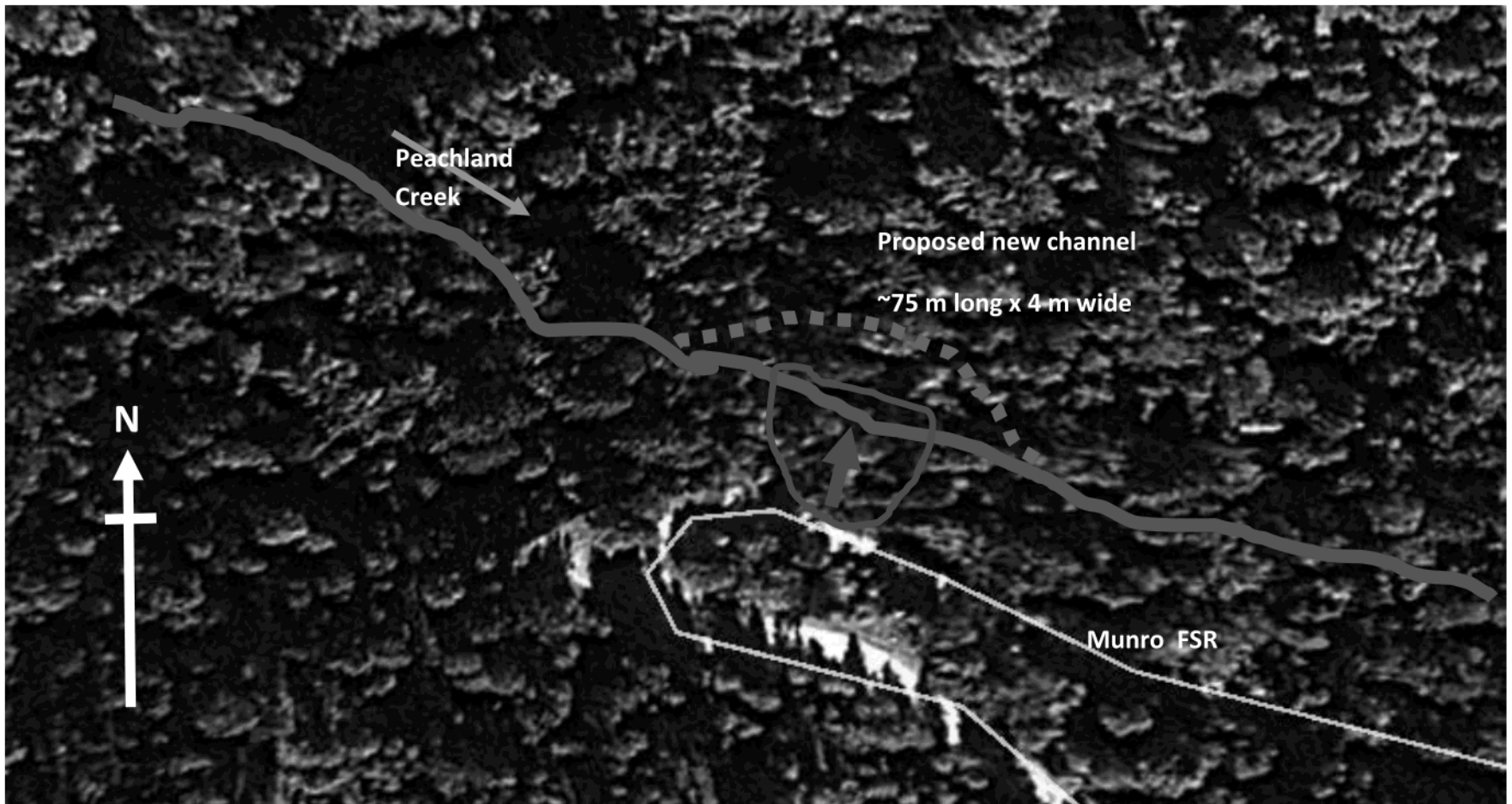
Thank you for your prompt attention to this matter.

Don Dobson, PEng

Dobson Engineering Ltd.
2580 Dunsmuir Road, Kelowna, BC V1W 2V3
(O)250.861.5595 (Cell) 250.878.4502
email: ddobson@dobsoneng.com

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Peachland Creek Slide location off Munro FSR – date of slide = March 27/28, 29017





Jager, Brenda CSNR:EX

From: Li, Yi FLNR:EX
Sent: Thursday, March 30, 2017 3:21 PM
To: Warner, Robert FLNR:EX
Cc: Nield, Lora M FLNR:EX; Bohay, Trevor FLNR:EX
Subject: RE: Peachland Creek

Don will submit a S11 Notification for the work afterwards, along with details. Lora will review it.

Yi

From: Warner, Robert FLNR:EX
Sent: Thursday, March 30, 2017 2:56 PM
To: Li, Yi FLNR:EX; Bohay, Trevor FLNR:EX
Subject: FW: Peachland Creek

Any plans to inspect? Just wondering what if any FLNR next steps are.
Thanks guys

From: Don Dobson [<mailto:ddobson@dobsoneng.com>]
Sent: Thursday, March 30, 2017 2:06 PM
To: jmitchell@peachland.ca; 'Kerry Rouck'; Warner, Robert FLNR:EX
Subject: Peachland Creek

The channel relocation around the slide was completed this morning. I have attached two photos of the completed channel and one showing the water quality at the Munro FSR bridge.

Joe, I spoke with Jon regarding turning the flow back into the intake pond this afternoon. Hopefully once the ponds are clear you will be able to lift the boil water order.

Jager, Brenda CSNR:EX

From: Nield, Lora M FLNR:EX
Sent: Thursday, March 30, 2017 4:10 PM
To: Symonds, Josie FLNR:EX
Subject: peachland
Attachments: RE: Peachland Creek ; RE: Peachland Creek Slide; FW: Peachland Creek Slide; RE: section 11 approval; FW: section 11 approval; FW: section 11 approval

Follow Up Flag: Follow up
Flag Status: Completed

Can I just leave this with you?

Jager, Brenda CSNR:EX

From: Symonds, Josie FLNR:EX
Sent: Wednesday, December 13, 2017 3:48 PM
To: Lacey, Cathy M FLNR:EX
Subject: FW: Lake Country Flood Emergency Works - Habitat Officer Review
Attachments: LG Emerg Works Letter - Lake Country.pdf

This is the response for R8003946. I will print and put in file and bring to you. File is now complete from Ecosystem's point of view.

Josie

Josie Symonds, M.Sc., R.P.Bio.
Ecosystems Biologist | BC Ministry of Forests, Lands, Natural Resource Operations & Rural Development
102 Industrial Place, Penticton, BC V2A 7C8 | (250) 490-2254 | Josie.Symonds@gov.bc.ca

Please note my regular work days are Monday to Thursday

From: Symonds, Josie FLNR:EX
Sent: Wednesday, December 13, 2017 3:47 PM
To: 'Matthew Salmon'
Cc: 's.22'
Subject: Lake Country Flood Emergency Works - Habitat Officer Review

Hello Matthew,

Please find attached the Habitat Officer's review of your reported emergency works for 2017. I have included the culvert at Barkley Road (submitted as Water Sustainability Act file R8003946), as well as the three erosion protection works reported by Rob Richardson.

Rob's email from Sept 8 (below) references "larger flood response projects." As indicated in my response (below), all emergency flood works must be reported to the Habitat Officer even if they were financially approved by the Province. If there are additional works that were completed other than the four identified in the attached letter, please provide information as soon as possible. If there are no additional work, please let me know.

Josie

Josie Symonds, M.Sc., R.P.Bio.
Ecosystems Biologist | BC Ministry of Forests, Lands, Natural Resource Operations & Rural Development
102 Industrial Place, Penticton, BC V2A 7C8 | (250) 490-2254 | Josie.Symonds@gov.bc.ca

Please note my regular work days are Monday to Thursday

From: Symonds, Josie FLNR:EX
Sent: Wednesday, September 13, 2017 4:48 PM
To: s.22
Cc: 'Matthew Salmon'
Subject: RE: Flood Emergency Works - Follow up Reporting and Site Visits Lake country

Hi Rob,

While the District of Lake Country may have been in contact with “the Ministry” on some projects, there is a legal requirement under the *Water Sustainability Act* for the local government to notify a Habitat Officer within 72 hours of completing the works. Financial authorization through EMBC is not the same as the legal requirement to do the works under the WSA. As far as I am aware, the District of Lake Country has not yet notified a Habitat Officer (someone in my Ecosystems section); I do not have any information on any of the projects mentioned below.

Do you have a timeframe for the post-event assessments? While that information will likely answer some of the questions from my end, an initial description/photos of all projects using the supplied forms should be submitted as soon as possible. Specifically, for shoreline protection projects (riprap) please confirm that the size/shape of the installed riprap rock armouring is appropriate as determined by an engineer. Please provide the design specifications if you have them. Also confirm that the rock used is not acid-generating (leach test). There may be additional information requirements identified during our review.

Please let me know if you have any questions.

Josie

Josie Symonds, M.Sc., R.P.Bio.

Ecosystems Biologist | BC Ministry of Forests, Lands, Natural Resource Operations & Rural Development
102 Industrial Place, Penticton, BC V2A 7C8 | (250) 490-2254 | Josie.Symonds@gov.bc.ca

Please note my regular work days are Monday to Thursday

From: s.22

Sent: Friday, September 8, 2017 3:20 PM

To: Symonds, Josie FLNR:EX

Cc: 'Matthew Salmon'

Subject: FW: Flood Emergency Works - Follow up Reporting and Site Visits Lake country

Josie,

I'm writing this email on behalf of the District of Lake Country. The District has appointed me to carry out flood damage recovery following this past spring's storm events.

The District of Lake Country recently received that attached Ministry documents from Chelsea Smith.

In looking through documents and correspondence, although the District did notify the Ministry on the larger Flood Response Projects, it appears that the District may have missed notifying your Ministry of some of the minor works carried out in relation to flooding.

These works are:

1. Fourth Street Beach Access shoreline protection and Pixton Road shoreline protection and
2. Okanagan Lake Pumphouse structural protection

For these three initiatives, rock was placed to prevent high water and wave action deterioration of District infrastructure. The District is in the process of carrying out post- event assessments of these works under the Province's EAF program.

Is the Ministry requiring the 72 hour reporting at this late date or would it be preferable to submit them with the post-event assessments once they have been completed?

Regards,

Rob Richardson
s.22

From: Smith, Chelsea FLNR:EX [mailto:Chelsea.X.Smith@gov.bc.ca]
Sent: Tuesday, September 5, 2017 4:02 PM
To: s.22 - ; 'msalmon@lakecountry.bc.ca' <msalmon@lakecountry.bc.ca>
Cc: Symonds, Josie FLNR:EX <Josie.Symonds@gov.bc.ca>
Subject: Flood Emergency Works - Follow up Reporting and Site Visits Lake country

Hello,

2017 was a record year for flooding in the Okanagan. In response to this historic event, local governments throughout the Okanagan constructed berms, placed erosion protection works, dredged streams and removed debris to protect public safety and infrastructure. You are receiving this email because you may have been involved in your local government's emergency response to flooding. If you are aware of additional contacts in the local government please forward on this message to their attention.

Under the Water Sustainability Regulation, local governments are authorized to do certain emergency works in and about a stream (includes lakes). As part of this authorization, local governments are required to report all works to a Habitat Officer within 72 hours. This is a legal requirement whether the works were authorized and/or funded by Emergency Management BC (EMBC) or completed using local government resources.

Now that the flood threat is reduced, I am following up with local governments to ensure that all reporting requirements are met. Please find attached guidance that was developed a few years ago and also disseminated through CTL PREOC this year. Please send the completed forms to the Habitat Officer identified in the guidance document for your area. The Habitat Officer will be reviewing the works and may follow up with additional terms once water levels recede. Also attached is a flood emergency works and recovery fact sheet for local governments.

To assist in meeting reporting requirements, the Ecosystems and Water staff may be able to participate in site visits to verify site conditions and provide recommendations. If you are interested in this option, please let me know so that I can schedule a site visit. I anticipate a half to full day, with your staff providing a tour of completed emergency works. Please be prepared to provide as much information as possible on the works (i.e., when and how works were completed, engineering/design considerations, environmental considerations, best practices employed, equipment/materials used).

If you are not interested in site visits, then I look forward to your submission of the reporting forms as soon as possible.

Sincerely,

Josie Symonds
Habitat Officer

Josie Symonds, M.Sc., R.P.Bio.

Please note my regular work days are Monday to Thursday



December 13, 2017

File: 32934-20/2017

District of Lake Country
5806 Beach Avenue,
Peachland, B.C. V0H 1X7

Attention: Matthew Salmon, Engineering Technician, msalmon@lakecountry.bc.ca

Re: Habitat Officer Review of District of Lake Country Reported 2017 Emergency Works Conducted under the Water Sustainability Regulation

Under the Water Sustainability Regulation (B.C. Reg. 36/2016), local governments are authorized to construct or place erosion protection works or flood protection works during a flooding emergency. As per Section 38(5) of this regulation, local governments who do such works must (a) report the authorized change to a Habitat Officer within 72 hours after making the change, and (b) comply with the terms and conditions, if any, specified by a habitat officer for the protection of an aquatic ecosystem. As the Habitat Officer responsible for your area, I have reviewed the following reported emergency works for 2017:

- Culvert replacement on unnamed stream at Barkley Road (subsequently submitted under Water Sustainability Act file No. R8003946)
- Erosion protection (rip rap) placement along 300 m section on shoreline along Pixton Road to protect hydro poles and roadway
- Erosion protection (rip rap) placement along 10 m section on shoreline to protect Okanagan Lake pump house
- Erosion protection (rip rap) placement along 7 m section on shoreline to protect 4th Street walking trail and boat launch

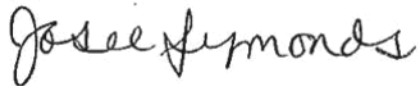
I provide the following terms and conditions related to the completed emergency works:

- Any materials, such as rip rap or gabion rock, placed within the stream must not contain substances (e.g., acid-generating rock) that could be harmful to fish, wildlife or aquatic ecosystems
- Any areas that were disturbed as part of the works must be promptly restored¹ and any soil exposed at the worksite must be promptly revegetated; any remediation requiring changes in and about a stream will require authorization under the *Water Sustainability Act* (WSA)

Regarding the erosion protection (rip rap) described above it is recognized that these emergency works may have been constructed without either design or supervision by a suitably qualified Professional Engineer and as such may **not** provide adequate erosion protection for future flood events. As these emergency works provide at least some degree of protection against further erosion, and if the terms and conditions described above are followed, they may stay in place. Any improvements or upgrades to these emergency works will require authorization under the WSA. Application to obtain authority under the WSA can be made through FrontCounter BC².

As 2017 was an exceptional year for flooding, we recognize that local governments may not have been able to report all works within the legislated time frame. For future flood events, be sure to follow the guidance provided in the document *Emergency Works Guidance for Local Government, Thompson Okanagan Region* and, where possible, the provincial best management practices (BMP) for instream works³. Please contact me if you require a copy of these documents. It is the proponent's responsibility to ensure their activities are in compliance with all legislation, including the *Wildlife Act* and the *Fisheries Act*, as well as with local government bylaws and regulations. Please contact me at josie.symonds@gov.bc.ca or 250-490-2254 if you have further questions.

Sincerely,



Josie Symonds, M.Sc., R.P.Bio.
Ecosystems Biologist
Habitat Officer

JS/js

cc: Rob Richardson, Contractor, s.22

¹<http://www.env.gov.bc.ca/wld/instreamworks/downloads/Habitat.pdf>

²<https://www2.gov.bc.ca/gov/content/environment/air-land-water/water/water-licensing-rights/water-licences-approvals/apply-for-a-change-approval-or-submit-notification-of-instream-work>

³<http://www.env.gov.bc.ca/wld/instreamworks/index.htm>

FLNRO - Reporting Form for Category 2 Emergency Works

Form Completed by:

Organization: Dobson Engineering Ltd.
Name: Don Dobson, P.Eng
Position: Senior Water Engineer
Contact Information: ddobson@dobsonengineering.com;
 250-861-5595 (o); 250-861-5595 (cell)
Date: May 30, 2017

Date of Works	March 29-30, 2017
Location of Works (legal Description or Address)	Peachland Creek - Vacant Crown land ~2 km along the Munro FSR within the Peachland Creek watershed, upstream of the District of Peachland's drinking water intake – See attached Figure 1.
Detailed Description of Work <ul style="list-style-type: none"> • description of work • who supervised the work • who carried out the work • how the work was completed • description of activities 	<p>On March 28, 2017 a portion of the Munro FSR at ~1.5 km slid into Peachland Creek, approximately 1 km upstream of the District of Peachland's drinking water intake. The turbidity readings at the intake were reported to exceed 500 NTU. Approximately 1200 m³ of material was deposited into Peachland Creek. At the time of the field visit, ~ 2:00pm on March 28, the channel was downcutting through the deposited material to reform its original channel. Prior to the slide, the channel was being directed and undercutting the slope that failed; if a new channel was not established to direct the flows around the toe of the slope it would continue to undermine and cause future landslides into the channel. The District would be impacted annually with high sediment loading in the channel as a result. The best way to address the stability of the slope and improve the water quality for the District was to create a new channel and divert the channel north away from the deposition zone and toe of the slope.</p> <p>A new channel location was designed and laid out by Dobson Engineering Ltd. The construction was completed by Gorman Bros. Lumber Ltd. on March 29 and March 30, 2017. Don Dobson, P.Eng supervised the construction and project.</p> <p>The new channel measured 75m in length and was constructed around (north) the slide deposition zone using an excavator to create a channel with a 4m base and 2:1 to 4:1 side slopes. The material on site consisted of gravels and cobble. A cut-off berm was constructed of boulders, and reinforced with gravel and cobble material, at the upstream end of the diversion. The channel banks measured 1.5-2 m in height.</p>

FLNRO - Reporting Form for Category 2 Emergency Works

Site Photos

- Pre-Construction
- During Construction
- Post Construction



Photo 1. Pre-construction. Looking down at slide and deposition zone into Peachland Creek.



Photo 2. New channel being constructed.



Photo 3. New channel constructed and water starting to flow.

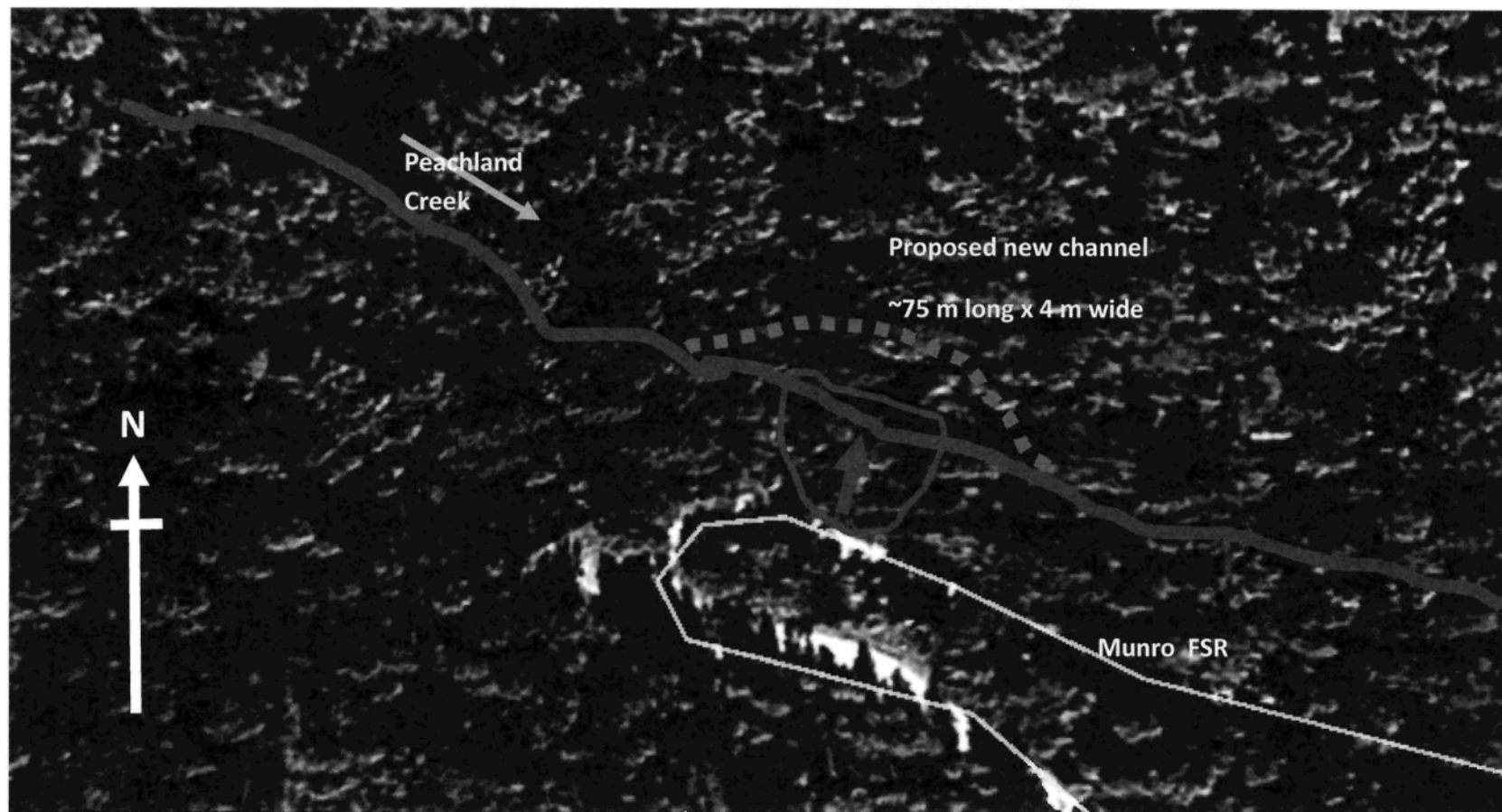


Figure 1. Peachland Creek Slide location off Munro FSR at ~2 km – date of slide - March 28, 2017

Bohay, Trevor FLNR:EX

From: Don Dobson <ddobson@dobsoneng.com>
Sent: Thursday, December 14, 2017 9:28 PM
To: Bohay, Trevor FLNR:EX; 'Suzan Lapp'
Subject: RE: Peachland Creek - Channel Relocation
Attachments: Category 2 Reporting Form - Peachland Creek Slide March 28 2017.pdf

Trevor I submitted a Cat 2 form on that matter to Grant Furness on June 12th. Copy attached.

From: Bohay, Trevor FLNR:EX [<mailto:Trevor.Bohay@gov.bc.ca>]
Sent: Thursday, December 14, 2017 3:53 PM
To: 'Suzan Lapp'
Cc: Don Dobson
Subject: RE: Peachland Creek - Channel Relocation

Hi Suzan,

Did you ever provide reporting on the Peachland Creek project due to Munro FSR slide? Apologies if you have; however, I'm unable to locate a report.

Regards,

Trevor

From: Suzan Lapp [<mailto:slapp@climaterra.ca>]
Sent: Tuesday, May 30, 2017 11:33 AM
To: Bohay, Trevor FLNR:EX
Subject: Re: Peachland Creek - Channel Relocation

Thanks Trevor.
Sue

On Tue, May 30, 2017 at 11:22 AM, Bohay, Trevor FLNR:EX <Trevor.Bohay@gov.bc.ca> wrote:

Hi Suzan,

At a minimum, please provide a report along the lines of the attached.

Trevor

From: Suzan Lapp [<mailto:slapp@climaterra.ca>]
Sent: Tuesday, May 30, 2017 11:16 AM
To: Bohay, Trevor FLNR:EX
Subject: Peachland Creek - Channel Relocation

Trevor,

I am working with Don Dobson on the Peachland Creek relocation following the Munro FSR slide at the end of March. I also left you a voice message this morning as well.

Can you please confirm what is required by the Ministry as a follow up?

Thanks.

Sue

--

Suzan Lapp, PhD, PAg, GIT

Climaterra Consulting Ltd.

697 Valley Rd N. Kelowna, BC V1V 2E1

250-863-4044

slapp@climatterra.ca

www.climatterra.ca

--

Suzan Lapp, PhD, PAg, GIT

Climaterra Consulting Ltd.

697 Valley Rd N. Kelowna, BC V1V 2E1

250-863-4044

slapp@climatterra.ca

www.climatterra.ca

Bohay, Trevor FLNR:EX

From: Suzan Lapp <slapp@climaterra.ca>
Sent: Tuesday, May 30, 2017 11:33 AM
To: Bohay, Trevor FLNR:EX
Subject: Re: Peachland Creek - Channel Relocation

Thanks Trevor.
Sue

On Tue, May 30, 2017 at 11:22 AM, Bohay, Trevor FLNR:EX <Trevor.Bohay@gov.bc.ca> wrote:

Hi Suzan,

At a minimum, please provide a report along the lines of the attached.

Trevor

From: Suzan Lapp [mailto:slapp@climaterra.ca]
Sent: Tuesday, May 30, 2017 11:16 AM
To: Bohay, Trevor FLNR:EX
Subject: Peachland Creek - Channel Relocation

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Suzan Lapp, PhD, PAg, GIT

Climaterra Consulting Ltd.

697 Valley Rd N. Kelowna, BC V1V 2E1

250-863-4044

slapp@climattera.ca

www.climattera.ca

--

Suzan Lapp, PhD, PAg, GIT
Climaterra Consulting Ltd.

697 Valley Rd N. Kelowna, BC V1V 2E1

250-863-4044

slapp@climattera.ca

www.climattera.ca

Bohay, Trevor FLNR:EX

From: Bohay, Trevor FLNR:EX
Sent: Tuesday, May 30, 2017 11:22 AM
To: 'Suzan Lapp'
Subject: RE: Peachland Creek - Channel Relocation
Attachments: Category 2 Reporting Form.docx

Hi Suzan,

At a minimum, please provide a report along the lines of the attached.

Trevor

From: Suzan Lapp [<mailto:slapp@climaterra.ca>]
Sent: Tuesday, May 30, 2017 11:16 AM
To: Bohay, Trevor FLNR:EX
Subject: Peachland Creek - Channel Relocation

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Suzan Lapp, PhD, PAg, GIT
Climaterra Consulting Ltd.
697 Valley Rd N. Kelowna, BC V1V 2E1
250-863-4044
slapp@climaterra.ca
www.climaterra.ca

Bohay, Trevor FLNR:EX

From: Suzan Lapp <slapp@climatterra.ca>
Sent: Tuesday, May 30, 2017 11:16 AM
To: Bohay, Trevor FLNR:EX
Subject: Peachland Creek - Channel Relocation

Trevor,
I am working with Don Dobson on the Peachland Creek relocation following the Munro FSR slide at the end of March. I also left you a voice message this morning as well.

Can you please confirm what is required by the Ministry as a follow up?

Thanks.
Sue

--

Suzan Lapp, PhD, PAg, GIT
Climatterra Consulting Ltd.
697 Valley Rd N. Kelowna, BC V1V 2E1
250-863-4044
slapp@climatterra.ca
www.climatterra.ca

Bohay, Trevor FLNR:EX

From: Li, Yi FLNR:EX
Sent: Monday, April 10, 2017 9:22 AM
To: Bohay, Trevor FLNR:EX
Subject: RE: section 11 approval

Yes. Addressed it to Don. He has agreed to submit it.

Yi

From: Bohay, Trevor FLNR:EX
Sent: Monday, April 10, 2017 9:12 AM
To: Li, Yi FLNR:EX
Subject: RE: section 11 approval

OK, but do you still need notification?

T

From: Li, Yi FLNR:EX
Sent: Monday, April 10, 2017 8:54 AM
To: Bohay, Trevor FLNR:EX
Subject: RE: section 11 approval

Hi Trevor,

Water Sustainability Act 39(2) addresses this issue:

- (2) A change in and about a stream to which a standard or regulation under the *Forest and Range Practices Act* applies is an authorized change if
 - (a) the change is made by
 - (i) a municipality, a regional district or another person who
 - (A) holds an agreement or road use permit under the *Forest Act*, an agreement under the *Range Act* or a special use permit under the *Forest Practices Code of British Columbia Act*, or
 - (B) is authorized under the *Coal Act*, the *Geothermal Resources Act*, the *Mining Right of Way Act* or the *Petroleum and Natural Gas Act* to construct or modify a road, or
 - (ii) the Crown in right of British Columbia, and
 - (b) the person making the change complies with the *Forest and Range Practices Act* and the regulations and standards established under that Act.

Don has confirmed in an email that the company holds a permit under *FRPA* for that area.

I was in Vancouver last week, and my cell phone has a problem in receiving/sending emails.

Regards
Yi

From: Bohay, Trevor FLNR:EX
Sent: Thursday, April 6, 2017 2:11 PM
To: Li, Yi FLNR:EX
Subject: FW: section 11 approval

Yi,

Explain to me the linkage between FRPA and WSA and why this needs notification.
I've not run across this before.
T

From: Warner, Robert FLNR:EX
Sent: Tuesday, March 28, 2017 4:27 PM
To: Li, Yi FLNR:EX
Cc: Bohay, Trevor FLNR:EX; Oetter, Andy FLNR:EX; Crampton, Ray W FLNR:EX
Subject: FW: section 11 approval

Excellent!
Thanks for the prompt attention to this Yi!

From: Li, Yi FLNR:EX
Sent: Tuesday, March 28, 2017 4:20 PM
To: Warner, Robert FLNR:EX; Bohay, Trevor FLNR:EX
Subject: RE: section 11 approval

Hi Bob,

Since it is an urgent scenario, Don's plan looks good.

I have contacted Don and Kerry. I agreed with them to proceed with the plan asap. I suggested to submit a notification for the emergency work. (The road is authorized under FRPA. Hence a WSA S11 notification applies to the work.) In the meantime, I strongly recommended to undertake a geotechnical assessment for the slope.

Don agrees to submit a notification, and will provide more details soon.

Regards
Yi

From: Warner, Robert FLNR:EX
Sent: Tuesday, March 28, 2017 2:41 PM
To: Li, Yi FLNR:EX
Subject: RE: section 11 approval

Much Appreciated Yi- thanks!

From: Li, Yi FLNR:EX
Sent: Tuesday, March 28, 2017 2:40 PM
To: Warner, Robert FLNR:EX
Subject: RE: section 11 approval

Hi Bob,
I am reading the emails. I'll contact Kerry soon.

Regards

Yi

From: Warner, Robert FLNR:EX
Sent: Tuesday, March 28, 2017 2:39 PM
To: Li, Yi FLNR:EX
Subject: FW: section 11 approval

Hi Yi

Trevor 's phone is off can you talk with him and see the best approach for this- or maybe you know and can help Kerry out.

thanks

From: Kerry Rouck [<mailto:KerryRouck@GormanBros.com>]
Sent: Tuesday, March 28, 2017 2:01 PM
To: Warner, Robert FLNR:EX; Bohay, Trevor FLNR:EX
Cc: Schell, Steve E FLNR:EX; Li, Yi FLNR:EX
Subject: RE: section 11 approval

Hi,

Here's a couple of photos that I've annotated to help with the description of what's going on.

The stream has moved into the road fill (fill has been there for 20+ years) causing the slump to occur. The slump has settled in the stream. Don Dobson's recommendation is to get an excavator into the location on the "old road" on the north side to put the stream back into one of the old channels on the floodplain. See annotations. Don's opinion is that doing so will be the fastest way for Peachland to rescind the boil water advisory.

Don is representing the District Of Peachland on this one.

This is urgent, so if we can get authority to do this today, that'd be great. We have equipment lined up and can have the work done in very short order.

Please call me as soon as possible to figure out how to proceed to next steps.

Thanks,

Kerry

From: Warner, Robert FLNR:EX [<mailto:Robert.Warner@gov.bc.ca>]
Sent: Tuesday, March 28, 2017 1:24 PM
To: Bohay, Trevor FLNR:EX <Trevor.Bohay@gov.bc.ca>
Cc: Schell, Steve E FLNR:EX <Steve.Schell@gov.bc.ca>; Li, Yi FLNR:EX <Yi.Li@gov.bc.ca>; Kerry Rouck <KerryRouck@GormanBros.com>
Subject: section 11 approval

Hi Trevor

Peachland has issued a boil water advisory in response to a mini slump off the Munro FSR. Reps from Gorman Brothers and Don Dobson are on site and are awaiting an approval to put the water back to where it should be going. Sketchy on

details but Kerry Rouck is the contact from Gormans 250-768-6220. Can you or one of your staff please contact him for the details and advise as appropriate.
thanks



Bob Warner RPF
Resource Manager
250-490-8232
C250-462-8887
Okanagan Shuswap Natural
Resource District
Ministry of Forests, Lands and
Natural Resource Operations



Bohay, Trevor FLNR:EX

From: Blomberg, Paul R FLNR:EX
Sent: Tuesday, April 4, 2017 7:13 PM
To: Warner, Robert FLNR:EX; Bohay, Trevor FLNR:EX
Subject: RE: Peachland Creek

File: 11250-32-8696.01 (Munro Lake FSR)

Team,

Yes. Gorman Bros. Lumber Ltd., is the Primary Maintainer and has a Road Use Permit for the entire Munro Lake Forest Service Road (8696.01).

Paul

Paul Blomberg, RFT | District Engineering Officer | MoFLNRO
Okanagan Shuswap Natural Resource District | phone (250) 558-1779 | fax (250) 549-5485

From: Warner, Robert FLNR:EX
Sent: Tuesday, April 4, 2017 5:58 PM
To: Blomberg, Paul R FLNR:EX; Bohay, Trevor FLNR:EX
Subject: Fwd: Peachland Creek

Hi Trevor

I am 95% sure that Gormans has a road use permit for the Munro but I will get Paul Blomberg to confirm for you
Paul can you please double check to see that gormans RUP is active
Thanks

Bob Warner
250-462-8887

Begin forwarded message:

From: "Bohay, Trevor FLNR:EX" <Trevor.Bohay@gov.bc.ca>
Date: April 4, 2017 at 4:47:45 PM PDT
To: "Warner, Robert FLNR:EX" <Robert.Warner@gov.bc.ca>
Subject: Fwd: Peachland Creek

Hi Bob

Can you please give me a call about this. I want to determine if Gorman Bros has a road use permit for the road.

Thanks
T

Sent from my iPhone

Begin forwarded message:

From: Don Dobson <ddobson@dobsoneng.com>
Date: April 4, 2017 at 11:40:27 AM PDT

To: "'Bohay, Trevor FLNR:EX'" <Trevor.Bohay@gov.bc.ca>

Subject: Peachland Creek

Trevor;

First, Thank you for your assistance in receiving approval to build the channel around the slide into Peachland Creek. Yi called me on Tuesday afternoon last week and gave us the verbal to proceed. The channel was completed on Wednesday and the District was flushing its intake pond on Friday.

Yi advised that a Notification for the work is required. It is my understanding that since the slide originated from an FSR that the response undertaken by Gorman Bros. was on behalf of the a Forest Service, therefore the Notification should be submitted on behalf of FLNRO. If I am to submit the Notification then I require a written authorization from FLNRO to be submitted with the Notification. Are you able to supply that authorization?

Thank you for your assistance.

Don

Don Dobson, PEng

Dobson Engineering Ltd.

2580 Dunsmuir Road, Kelowna, BC V1W 2V3

(O)250.861.5595 (Cell) 250.878.4502

email: ddobson@dobsoneng.com

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Bohay, Trevor FLNR:EX

From: Bohay, Trevor FLNR:EX
Sent: Tuesday, April 4, 2017 4:48 PM
To: Warner, Robert FLNR:EX
Subject: Fwd: Peachland Creek

Hi Bob

Can you please give me a call about this. I want to determine if Gorman Bros has a road use permit for the road.

Thanks

T

Sent from my iPhone

Begin forwarded message:

From: Don Dobson <ddobson@dobsoneng.com>
Date: April 4, 2017 at 11:40:27 AM PDT
To: "'Bohay, Trevor FLNR:EX'" <Trevor.Bohay@gov.bc.ca>
Subject: Peachland Creek

Trevor;

First, Thank you for your assistance in receiving approval to build the channel around the slide into Peachland Creek. Yi called me on Tuesday afternoon last week and gave us the verbal to proceed. The channel was completed on Wednesday and the District was flushing its intake pond on Friday.

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Don Dobson, PEng
Dobson Engineering Ltd.
2580 Dunsmuir Road, Kelowna, BC V1W 2V3
(O)250.861.5595 (Cell) 250.878.4502
email: ddobson@dobsoneng.com

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Bohay, Trevor FLNR:EX

From: Warner, Robert FLNR:EX
Sent: Tuesday, April 4, 2017 11:05 AM
To: Bohay, Trevor FLNR:EX
Cc: 'Kerry Rouck'; 'Don Dobson'
Subject: RE: Peachland Creek Slide

Hi Trevor
Can you help Don with his query?
thanks

From: Don Dobson [<mailto:ddobson@dobsoneng.com>]
Sent: Tuesday, April 4, 2017 11:01 AM
To: Warner, Robert FLNR:EX
Cc: 'Kerry Rouck'
Subject: Peachland Creek Slide

Bob;

I need to submit the application for a Notification for the emergency work done on Peachland Creek at the slide. Kerry advised Yi when he spoke with him that any required permitting would be made on behalf of the ministry. In order to do that, I require a letter from the ministry authorizing me to act as an agent on its behalf. Who will provide that authorization?

Thank you for your help.

Don

Bohay, Trevor FLNR:EX

From: Li, Yi FLNR:EX
Sent: Thursday, March 30, 2017 3:21 PM
To: Warner, Robert FLNR:EX
Cc: Nield, Lora M FLNR:EX; Bohay, Trevor FLNR:EX
Subject: RE: Peachland Creek

Don will submit a S11 Notification for the work afterwards, along with details. Lora will review it.

Yi

From: Warner, Robert FLNR:EX
Sent: Thursday, March 30, 2017 2:56 PM
To: Li, Yi FLNR:EX; Bohay, Trevor FLNR:EX
Subject: FW: Peachland Creek

Any plans to inspect? Just wondering what if any FLNR next steps are.
Thanks guys

From: Don Dobson [<mailto:ddobson@dobsoneng.com>]
Sent: Thursday, March 30, 2017 2:06 PM
To: jmitchell@peachland.ca; 'Kerry Rouck'; Warner, Robert FLNR:EX
Subject: Peachland Creek

The channel relocation around the slide was completed this morning. I have attached two photos of the completed channel and one showing the water quality at the Munro FSR bridge.

Joe, I spoke with Jon regarding turning the flow back into the intake pond this afternoon. Hopefully once the ponds are clear you will be able to lift the boil water order.

Bohay, Trevor FLNR:EX

From: Warner, Robert FLNR:EX
Sent: Thursday, March 30, 2017 2:56 PM
To: Li, Yi FLNR:EX; Bohay, Trevor FLNR:EX
Subject: FW: Peachland Creek
Attachments: Looking upstream.jpg; Looking downstream.jpg; Water quality at Munro FSR bridge this morning.jpg

Any plans to inspect? Just wondering what if any FLNR next steps are.
Thanks guys

From: Don Dobson [<mailto:ddobson@dobsoneng.com>]
Sent: Thursday, March 30, 2017 2:06 PM
To: jmitchell@peachland.ca; 'Kerry Rouck'; Warner, Robert FLNR:EX
Subject: Peachland Creek

The channel relocation around the slide was completed this morning. I have attached two photos of the completed channel and one showing the water quality at the Munro FSR bridge.

Joe, I spoke with Jon regarding turning the flow back into the intake pond this afternoon. Hopefully once the ponds are clear you will be able to lift the boil water order.

Bohay, Trevor FLNR:EX

From: Li, Yi FLNR:EX
Sent: Wednesday, March 29, 2017 9:30 AM
To: 'Don Dobson'
Cc: 'Kerry Rouck'; JeffHatch@GormanBros.com; 'Suzan Lapp'; jmitchell@peachland.ca; Warner, Robert FLNR:EX; Nield, Lora M FLNR:EX; Bohay, Trevor FLNR:EX
Subject: RE: Peachland Creek Slide

Thanks Don,

Just in case. Please pay attention to the ownership of that proposed channel section. An appropriate consent may be needed.

Lora will address ecosystems concerns.

As discussed yesterday, please document important details (such as your design...), which will be included in the Notification application.

It has been recommended that, after the emergent relocation, a solid geotechnical assessment be undertaken for the slope (and even the adjacent area), which may be at risk now, particularly considering the incoming freshet.

Regards
Yi

From: Don Dobson [<mailto:ddobson@dobsoneng.com>]
Sent: Tuesday, March 28, 2017 5:22 PM
To: Li, Yi FLNR:EX
Cc: 'Kerry Rouck'; JeffHatch@GormanBros.com; 'Suzan Lapp'; jmitchell@peachland.ca; Warner, Robert FLNR:EX
Subject: Peachland Creek Slide

Yi;

I have attached a KMZ showing the location of the slide and also a clip from Google Earth of the location off the Munro FSR and the proposed channel relocation. I have also attached 2 photos of the slide.

I am confirming your phone call this afternoon advising that the channel relocation work can commence tomorrow morning, March 29th. A contractor will be onsite at 0800 tomorrow morning to start work. The relocation should take about 2 days to complete. I will be onsite on Thursday for the opening of the new channel. Suzan Lapp will be on site tomorrow to assist the contractor with site clearing and stripping. A Geotech consultant, engaged by Gorman Bros. Lumber will also be onsite tomorrow as will staff from Gorman Bros. Lumber that holds the current road permit.

The new channel will be approximately 75 m long by 4 m wide and will mostly follow an old high water channel that is located north of the toe of the slide. The channel will be constructed in the dry and flow will be introduced gradually to minimize sedimentation. The District of Peach will be kept informed as the work proceeds.

We will submit a Notification as you requested after the restoration work is completed.

Thank you for your prompt attention to this matter.

Don Dobson, PEng

Dobson Engineering Ltd.

2580 Dunsmuir Road, Kelowna, BC V1W 2V3

(O)250.861.5595 (Cell) 250.878.4502

email: ddobson@dobsoneng.com

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December 14, 2016

Thompson Habitat Officer Terms and Conditions

The following Terms and Conditions are provided pursuant to 39 (1) of the *Water Sustainability Act* Regulation, and are only in effect for extenuating circumstances related to flooding, or potential flooding.

The intent of this document is to provide the applicant the opportunity to clear an obstruction, or pending obstruction, from a culvert or bridge during a flood event, or an impending flood event, when there exists a potential danger to life or property.

The applicant is required to submit a plan, in accordance with a Notification application, either prior to initiating works, or within 24 hours of works being initiated. The application is at the following site:

<http://www.frontcounterbc.gov.bc.ca/browse.html> .

Damage to the environment, beyond that accounted for in the Terms and Conditions, must be remediated within 6 months from when the works occurred, and reported to the Habitat Officer within 72 hours from when the damage occurred.

1. Debris removed from the stream channel is to be placed above the high water mark, such that it will not be reintroduced into the stream, and will not result in sediment delivery into the stream;
2. Minimize the disturbance to riparian vegetation; and
3. Restore denuded lands such that they do not contribute to sediment delivery to the stream within 6 months of the work.



Mark Phillpotts, Habitat Officer

Bohay, Trevor FLNR:EX

From: Li, Yi FLNR:EX
Sent: Wednesday, March 29, 2017 9:01 AM
To: Warner, Robert FLNR:EX
Cc: Bohay, Trevor FLNR:EX; Oetter, Andy FLNR:EX; Crampton, Ray W FLNR:EX
Subject: RE: section 11 approval

No problem.

Following a harsh winter, many emergencies may be coming in this spring. We may need to pay attention.

Yi

From: Warner, Robert FLNR:EX
Sent: Tuesday, March 28, 2017 4:27 PM
To: Li, Yi FLNR:EX
Cc: Bohay, Trevor FLNR:EX; Oetter, Andy FLNR:EX; Crampton, Ray W FLNR:EX
Subject: FW: section 11 approval

Excellent!
Thanks for the prompt attention to this Yi!

From: Li, Yi FLNR:EX
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To: Warner, Robert FLNR:EX; Bohay, Trevor FLNR:EX
Subject: RE: section 11 approval

Hi Bob,

Since it is an urgent scenario, Don's plan looks good.

I have contacted Don and Kerry. I agreed with them to proceed with the plan asap. I suggested to submit a notification for the emergency work. (The road is authorized under FRPA. Hence a WSA S11 notification applies to the work.) In the meantime, I strongly recommended to undertake a geotechnical assessment for the slope.

Don agrees to submit a notification, and will provide more details soon.

Regards
Yi

From: Warner, Robert FLNR:EX
Sent: Tuesday, March 28, 2017 2:41 PM
To: Li, Yi FLNR:EX
Subject: RE: section 11 approval

Much Appreciated Yi- thanks!

From: Li, Yi FLNR:EX
Sent: Tuesday, March 28, 2017 2:40 PM
To: Warner, Robert FLNR:EX
Subject: RE: section 11 approval

Hi Bob,
I am reading the emails. I'll contact Kerry soon.

Regards
Yi

From: Warner, Robert FLNR:EX
Sent: Tuesday, March 28, 2017 2:39 PM
To: Li, Yi FLNR:EX
Subject: FW: section 11 approval

Hi Yi
Trevor's phone is off can you talk with him and see the best approach for this- or maybe you know and can help Kerry out.
thanks

From: Kerry Rouck [<mailto:KerryRouck@GormanBros.com>]
Sent: Tuesday, March 28, 2017 2:01 PM
To: Warner, Robert FLNR:EX; Bohay, Trevor FLNR:EX
Cc: Schell, Steve E FLNR:EX; Li, Yi FLNR:EX
Subject: RE: section 11 approval

Hi,

Here's a couple of photos that I've annotated to help with the description of what's going on.

The stream has moved into the road fill (fill has been there for 20+ years) causing the slump to occur. The slump has settled in the stream. Don Dobson's recommendation is to get an excavator into the location on the "old road" on the north side to put the stream back into one of the old channels on the floodplain. See annotations. Don's opinion is that doing so will be the fastest way for Peachland to rescind the boil water advisory.

Don is representing the District Of Peachland on this one.

This is urgent, so if we can get authority to do this today, that'd be great. We have equipment lined up and can have the work done in very short order.

Please call me as soon as possible to figure out how to proceed to next steps.

Thanks,

Kerry

From: Warner, Robert FLNR:EX [<mailto:Robert.Warner@gov.bc.ca>]
Sent: Tuesday, March 28, 2017 1:24 PM
To: Bohay, Trevor FLNR:EX <Trevor.Bohay@gov.bc.ca>
Cc: Schell, Steve E FLNR:EX <Steve.Schell@gov.bc.ca>; Li, Yi FLNR:EX <Yi.Li@gov.bc.ca>; Kerry Rouck

<KerryRouck@GormanBros.com>

Subject: section 11 approval

Hi Trevor

Peachland has issued a boil water advisory in response to a mini slump off the Munro FSR. Reps from Gorman Brothers and Don Dobson are on site and are awaiting an approval to put the water back to where it should be going. Sketchy on details but Kerry Rouck is the contact from Gormans 250-768-6220. Can you or one of your staff please contact him for the details and advise as appropriate.

thanks



Bob Warner RPF
Resource Manager
250-490-8232
C250-462-8887
Okanagan Shuswap Natural
Resource District
Ministry of Forests, Lands and
Natural Resource Operations



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To: Bohay, Trevor FLNR:EX; Warner, Robert FLNR:EX
Cc: Oetter, Andy FLNR:EX; Crampton, Ray W FLNR:EX
Subject: RE: section 11 approval

Thanks Trevor,

Don has sent more details on his plan. I'll reply an email to him today. The habitat conditions will be forwarded to Tod. Ecosystems section may also address something.

Yi

From: Bohay, Trevor FLNR:EX
Sent: Wednesday, March 29, 2017 8:50 AM
To: Warner, Robert FLNR:EX; Li, Yi FLNR:EX
Cc: Oetter, Andy FLNR:EX; Crampton, Ray W FLNR:EX
Subject: RE: section 11 approval

Thanks Yi,

I appreciate you helping Bob with this one. I'm in your office if you want to discuss. Did they also get a set of emergency conditions for habitat? Something like the attached could be easily modified for this situation.
Cheers

T

From: Warner, Robert FLNR:EX
Sent: Tuesday, March 28, 2017 4:27 PM
To: Li, Yi FLNR:EX
Cc: Bohay, Trevor FLNR:EX; Oetter, Andy FLNR:EX; Crampton, Ray W FLNR:EX
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Subject: FW: section 11 approval

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Sent: Tuesday, March 28, 2017 2:01 PM
To: Warner, Robert FLNR:EX; Bohay, Trevor FLNR:EX
Cc: Schell, Steve E FLNR:EX; Li, Yi FLNR:EX
Subject: RE: section 11 approval

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Kerry

From: Warner, Robert FLNR:EX [<mailto:Robert.Warner@gov.bc.ca>]

Sent: Tuesday, March 28, 2017 1:24 PM

To: Bohay, Trevor FLNR:EX <Trevor.Bohay@gov.bc.ca>

Cc: Schell, Steve E FLNR:EX <Steve.Schell@gov.bc.ca>; Li, Yi FLNR:EX <Yi.Li@gov.bc.ca>; Kerry Rouck <KerryRouck@GormanBros.com>

Subject: section 11 approval

Hi Trevor

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thanks



Bob Warner RPF
Resource Manager
250-490-8232
C250-462-8887
Okanagan Shuswap Natural
Resource District
Ministry of Forests, Lands and
Natural Resource Operations









Bohay, Trevor FLNR:EX

From: Schafthuizen, Jim FLNR:EX
Sent: Tuesday, March 28, 2017 2:11 PM
To: 'Kerry Rouck'
Cc: Bohay, Trevor FLNR:EX; Oetter, Andy FLNR:EX
Subject: RE: section 11 approval

Hi Kerry. Thanks for forwarding the note. Trevor Bohay is covering the Single Point of Contact duties for Steve this week. I will work with him on the section 11 approval.

Jim Schafthuizen, R.P.F.

Executive Director Regional Operations – South Area
Ministry of Forests, Lands & Natural Resource Operations
441 Columbia St., Kamloops, B.C. V2C 2T3

ph. (250) 828-4625



From: Kerry Rouck [<mailto:KerryRouck@GormanBros.com>]
Sent: Tuesday, March 28, 2017 2:03 PM
To: Schafthuizen, Jim FLNR:EX
Subject: FW: section 11 approval

Hi Jim,

Steve's email said to contact you if theres something urgent going on.

This one's urgent!

Thanks,

Kerry Rouck, RPF
Corporate Forestry Manager
The Gorman Group

From: Kerry Rouck
Sent: Tuesday, March 28, 2017 2:01 PM
To: 'Warner, Robert FLNR:EX' <Robert.Warner@gov.bc.ca>; Bohay, Trevor FLNR:EX <Trevor.Bohay@gov.bc.ca>
Cc: Schell, Steve E FLNR:EX <Steve.Schell@gov.bc.ca>; Li, Yi FLNR:EX <Yi.Li@gov.bc.ca>
Subject: RE: section 11 approval

Hi,

Here's a couple of photos that I've annotated to help with the description of what's going on.

The stream has moved into the road fill (fill has been there for 20+ years) causing the slump to occur. The slump has settled in the stream. Don Dobson's recommendation is to get an excavator into the location on the "old road" on the north side to put the stream back into one of the old channels on the floodplain. See annotations. Don's opinion is that doing so will be the fastest way for Peachland to rescind the boil water advisory.

Don is representing the District Of Peachland on this one.

This is urgent, so if we can get authority to do this today, that'd be great. We have equipment lined up and can have the work done in very short order.

Please call me as soon as possible to figure out how to proceed to next steps.

Thanks,

Kerry

From: Warner, Robert FLNR:EX [<mailto:Robert.Warner@gov.bc.ca>]

Sent: Tuesday, March 28, 2017 1:24 PM

To: Bohay, Trevor FLNR:EX <Trevor.Bohay@gov.bc.ca>

Cc: Schell, Steve E FLNR:EX <Steve.Schell@gov.bc.ca>; Li, Yi FLNR:EX <Yi.Li@gov.bc.ca>; Kerry Rouck <KerryRouck@GormanBros.com>

Subject: section 11 approval

Hi Trevor

Peachland has issued a boil water advisory in response to a mini slump off the Munro FSR. Reps from Gorman Brothers and Don Dobson are on site and are awaiting an approval to put the water back to where it should be going. Sketchy on details but Kerry Rouck is the contact from Gormans 250-768-6220. Can you or one of your staff please contact him for the details and advise as appropriate.

thanks



Bob Warner RPF
Resource Manager
250-490-8232
C250-462-8887
Okanagan Shuswap Natural
Resource District
Ministry of Forests, Lands and
Natural Resource Operations



Bohay, Trevor FLNR:EX

From: Bohay, Trevor FLNR:EX
Sent: Tuesday, September 12, 2017 4:16 PM
To: 'Don Dobson'
Cc: Robertson, Brian FLNR:EX
Subject: RE: Trepanier Creek

Hi Don,

I feel that this work can be done under license as maintenance of works, Lora Nield from Ecosystems concurs, please work with Brian Robertson to obtain Habitat Officer's terms and conditions for the work.

Regards,

Trevor

From: Don Dobson [<mailto:ddobson@dobsoneng.com>]
Sent: Tuesday, August 29, 2017 4:04 PM
To: Bohay, Trevor FLNR:EX
Subject: RE: Trepanier Creek

Trevor;

I have indicated the section of channel that has aggraded on the attached image. The total length is ~120 m. The district can isolate the section of the channel from the intake pipes to the weir downstream by diverting the entire flow into the intake ponds and then back into the creek downstream of the weir. That would leave about a 20 m long section from the intake pipes upstream that they would have to isolate by diverting the flow around the work area. Very preliminary estimates of the volume to be removed is 100+ cu m.

Don Dobson, PEng
Dobson Engineering Ltd.
2580 Dunsmuir Road, Kelowna, BC V1W 2V3
(O)250.861.5595 (Cell) 250.878.4502
email: ddobson@dobsoneng.com

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From: Bohay, Trevor FLNR:EX [<mailto:Trevor.Bohay@gov.bc.ca>]
Sent: Tuesday, August 29, 2017 3:46 PM
To: 'Don Dobson'
Cc: Nield, Lora M FLNR:EX
Subject: RE: Trepanier Creek

Don,

How far upstream of the intake is the weir in question? I'm trying to get a sense of the linear distance. Also, what is the proposed volume of dredging?

Trevor

With regard to your post script, it is reasonable that the District remove sediment from Peachland Creek Intake Pond under maintenance of works. Please notify the habitat officer (Lora Nield) and obtain terms and conditions.

From: Don Dobson [<mailto:ddobson@dobsoneng.com>]

Sent: Monday, August 28, 2017 1:43 PM

To: Bohay, Trevor FLNR:EX

Cc: 'Thomas Simkins'

Subject: Trepanier Creek

Trevor;

During the flooding in May/June you may recall that MacDonald Creek was diverted onto the Brenda Mine access road destroying the road and the water lines to the water treatment plant (refer to attached photo). Bed load from the washout was carried downstream and some has deposited at the District of Peachland Trepanier Creek intake (refer to attached PDF). The accumulated gravel is causing problems with the diversion of water from the creek into the district's intake. The district has received support from DFA to complete the restoration work. The restoration work requires the removal of the accumulated bed load in the channel from the weir upstream past the intake to the settling ponds.

Question: Can this work be done this fall as maintenance under the district's water licenses?

Thank you.

PS The district also needs to remove the sediment in its Peachland Creek intake pond from the slide off the Munro FSR last spring however this work is within its settling pond isolated from the creek so they can control the sediment. They would like to do this work as maintenance under their Peachland Creek water licenses.

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Bohay, Trevor FLNR:EX

From: Nield, Lora M FLNR:EX
Sent: Friday, September 1, 2017 9:02 AM
To: Bohay, Trevor FLNR:EX; Robertson, Brian FLNR:EX
Subject: RE: Trepanier Creek

Yes that seems fine with me.

From: Bohay, Trevor FLNR:EX
Sent: Wednesday, August 30, 2017 12:26 PM
To: Nield, Lora M FLNR:EX
Cc: Robertson, Brian FLNR:EX
Subject: RE: Trepanier Creek

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From: Nield, Lora M FLNR:EX
Sent: Wednesday, August 30, 2017 11:11 AM
To: Bohay, Trevor FLNR:EX
Cc: Robertson, Brian FLNR:EX
Subject: RE: Trepanier Creek

What direction are you providing them? Change approval or water license?
From our shop Brian Robertson will be the lead.

From: Bohay, Trevor FLNR:EX
Sent: Wednesday, August 30, 2017 8:38 AM
To: Nield, Lora M FLNR:EX
Subject: FW: Trepanier Creek

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Sent: Monday, August 28, 2017 1:43 PM

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Cc: 'Thomas Simkins'

Subject: Trepanier Creek

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Don,

Bohay, Trevor FLNR:EX

From: Robertson, Brian FLNR:EX
Sent: Tuesday, September 5, 2017 1:48 PM
To: Bohay, Trevor FLNR:EX
Subject: RE: Trepanier Creek

Good afternoon Trevor, is it safe for me to assume that I will see some form of formal referral on the proposed works that Don has described in the below emails, or is it likely that I will be contacted by Don directly. I have seen correspondence between yourself, Don & Lora on a couple of different sites and am just trying not to lose track of any that I might be expected to deal with Don directly. Thanks

Brian

From: Nield, Lora M FLNR:EX
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To: Bohay, Trevor FLNR:EX; Robertson, Brian FLNR:EX
Subject: RE: Trepanier Creek

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