

**From:** [Baldwin, John FLNR:EX](#)  
**To:** [Jager, Brenda CSNR:EX](#)  
**Cc:** [McLean, Robert FLNR:EX](#)  
**Subject:** FNR-2017-70019 FW: City Nanaimo DEPs  
**Date:** Friday, January 6, 2017 8:55:10 AM

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This is info regarding West Coast Dam Safety meeting held with City of Nanaimo staff regarding ALL City dams and the Dam Safety Regulation requirement for Dam Emergency Plans. Direct follow up from this meeting with the City is still to be completed.

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**From:** Jolley, William FLNR:EX  
**Sent:** Wednesday, December 14, 2016 2:08 PM  
**To:** Baldwin, John FLNR:EX; McLean, Robert FLNR:EX; Morgan, Scott FLNR:EX  
**Subject:** RE: City Nanaimo DEPs

Thanks John, Your email has been helpful to me in my upcoming revision of the DEP. I have made some comments in **red** in your email below. General comments:

- dam owners have been required to inform “persons in the immediate vicinity of the dam” since the regulation was first passed in 2000.
- Regarding how the dam owners can achieve this, we should look at how notifications are given out to the public when there is a wildfire. The local authority doesn’t phone all the people in the evacuation area but they publish an evacuation map for alerts and then for the mandatory evacuations.

Please have a look at the comments in **red** in your email below. Will

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**From:** Baldwin, John FLNR:EX  
**Sent:** Monday, December 12, 2016 10:11 AM  
**To:** McLean, Robert FLNR:EX; Morgan, Scott FLNR:EX  
**Cc:** Jolley, William FLNR:EX  
**Subject:** RE: City Nanaimo DEPs

This is to confirm that I met with the City of Nanaimo dam safety program staff (Bill Sims, Heidi Cao, Euan Wilson. Ritchie Fulla and operating staff) on Friday December 9<sup>th</sup> 2017 at the City Yard office as a follow up to the new Dam Emergency Plan (DEP) submitted by the City for their dams. There is only one DEP document for all the City dams.

Comments:

s.13

Page 2

Withheld pursuant to/removed as

s.13

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**From:** McLean, Robert FLNR:EX  
**Sent:** Wednesday, December 7, 2016 10:59 AM  
**To:** Baldwin, John FLNR:EX  
**Cc:** Morgan, Scott FLNR:EX  
**Subject:** City Nanaimo DEPs

John,

As discussed I accept the contents of the recently received DEP for the City of Nanaimo dams. The detail of the evacuation area maps could be more detailed but for the Jump Creek, South Fork and Westwood dams that I am the DSO, I am satisfied with the suitability of the drawings.

s.13

Regards,

Robert McLean, MSc, PEng

Senior Dam Safety Engineer

BC Ministry of Forests, Lands and Natural Resource Operations

Water Management Branch

Tel: [250-952-6805](tel:250-952-6805) Mobile: 250-896-0648 Fax: 250-356-0605  
Courier: 3rd Floor 395 Waterfront Crescent Victoria BC V8T 5K7  
Mail: PO Box 9340 Stn Prov Govt Victoria BC V8W 9M1

[Robert.McLean@gov.bc.ca](mailto:Robert.McLean@gov.bc.ca)



November 30, 2016

File: 76915-07/Compliance Form

BILL SIMS  
CITY OF NANAIMO  
PUBLIC WORKS YARD  
2020 LABIEUX RD  
NANAIMO BC V9T 6J9

Dear Dam Owner:

**Re: Request to Complete 2016 Dam Status Report**


The B.C. Dam Safety Regulation was passed into law under the *Water Act* effective February 11, 2000. This regulation was repealed and replaced by the Dam Safety Regulation (Regulation) under the new *Water Sustainability Act* (WSA) on February 29, 2016. A copy of the Regulation was mailed to you in June, 2016. Please take some time to become familiar with your regulatory obligations as a dam owner. A copy of the Regulation can also be found on the Dam Safety Program webpage at [www.gov.bc.ca/water](http://www.gov.bc.ca/water).

The objective of the Regulation is to protect the public, the environment and property by requiring dam owners to adequately inspect and properly maintain their dams, and to ensure that their dams meet applicable engineering standards.

Our records indicate that you are the principal contact for the following dam(s) regulated under the WSA. A principal contact is either the dam owner, or the owner's designate who liaises with the Province regarding information and records related to the dam(s). If you have received this request in error please return the form to the Dam Safety Section and provide the correct principal contact information if known.

Dam File Number	Dam Name	Failure Consequence Rating
D720001-00	MIDDLE CHASE RIVER DAM	VERY HIGH
D720002-00	LOWER CHASE RIVER DAM	VERY HIGH
D720003-01	WESTWOOD LAKE DAM	HIGH
D720005-01	JUMP CREEK DAM	VERY HIGH
D720005-02	JUMP CREEK SADDLE DAM	HIGH
D720007-00	SOUTH FORK DAM	VERY HIGH

Page 1 of 2

Ministry of Forests, Lands and Natural Resource Operations Resource Stewardship Division	Water Management Branch Dam Safety Section <a href="http://www2.gov.bc.ca/gov/content/environment/air-land-water/water/drought-flooding-dikes-dams/dam-safety">www2.gov.bc.ca/gov/content/environment/air-land-water/water/drought-flooding-dikes-dams/dam-safety</a>	Mailing Address: PO Box 9340 Stn Prov Govt Victoria BC V8W 9M1 Telephone: 250-952-6790 Facsimile: 250 356 0605	Location: 3 <sup>rd</sup> Floor, 395 Waterfront Cres Victoria BC V8T 5K7 
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As part of the Ministry's dam safety compliance program, owners of dams with extreme, very high or high failure consequence classifications are required to submit an annual status report for each dam using the attached template.

Please complete and submit a separate copy of the enclosed 2016 Dam Status Report for each dam for which you are the principal contact by **February 1, 2017** using one of the following methods:

- Email: [dam.safety@gov.bc.ca](mailto:dam.safety@gov.bc.ca)
- Mail, using the pre-paid self-addressed return envelope
- Fax: 250-356-0605

Additional 2016 Dam Status Report forms are available on the Dam Safety Program website at [www.gov.bc.ca/water](http://www.gov.bc.ca/water) under the Dam Safety, Compliance and Enforcement section. Before completing the form, please review the information on the reverse side of the form.

For more information about dam status reporting, please refer to the enclosed Annual Dam Status Report Information Sheet. If you have any questions please contact your Dam Safety Officer (see enclosed Dam Safety Officer Contact Information) or visit the Dam Safety website.

Yours truly,



Glen Davidson, P.Eng.  
Comptroller of Water Rights

Enclosures

pc: Dams Safety Officer(s): SCOTT MORGAN  
ROB MCLEAN



September 27, 2016

File: 76915-20/D720001-00

Ms. Tracy Samra  
Chief Administrative Officer  
City of Nanaimo  
455 Wallace St  
Nanaimo BC V9R 5J6

Dear Ms. Samra:

**Re: Middle Chase River Dam – Timeline Extension for Dam Safety Assessment Granted**

Thank you for your letter dated September 13, 2016 requesting a timeline extension to submit a dam safety assessment on Middle Chase River Dam to March 31, 2017.

We have reviewed your rationale for asking for the timeline extension and, although would like to see progress being made on the Middle Chase River Dam as soon as possible, the on-going work in data collection, instrumentation upgrades and planned update to the Operation, Maintenance and Surveillance Manual and completed auxiliary spillway for Lower Chase Dam all show City of Nanaimo's continued commitment to dam safety. Therefore we accept your timeline extension request.

Please submit the results of the work outlined in steps 1 through 4 in Golder's conceptual plan (including the City's proposed remediation approach for Middle Dam) to this office by March 31, 2017 for review and decision as to acceptance of the proposed remediation approach for Middle Dam.

Please be reminded of the implementation requirements in Section 2 (b) of the Comptroller's April 29, 2015 Order, which states that the City must:

- b) Implement the revised plan, based on the priorities identified in the plan, within a reasonably expeditious time frame but no later than the end of 2017, and in accordance with Section 4 of the B.C. Dam Safety Regulation (note: Section 12 of the 2016 Dam Safety Regulation), as applicable to any alteration, improvement or replacement to all or any part of the dam intended to correct a potential safety hazard and which must be implemented in a timely manner.*

.../2

Ministry of Forests, Lands and  
Natural Resource Operations

Resource Stewardship Division

Office of the Comptroller of  
Water Rights

Water Management Branch

Mailing Address:  
PO Box 9340 Stn Prov Govt  
Victoria BC V8W 9M1  
Telephone: 250-952-6790  
Facsimile: 250-953-5124

Location:  
3rd Floor 395 Waterfront Crescent  
Victoria BC V8T 5K7



Finally, we commend you and your staff for the work undertaken over the past several years to safeguard Lower Chase River Dam.

Sincerely,

Scott Morgan  
Head, Dam Safety Section

SMORGAN/lis

Major Dams\D720001 - D720002 - Chase River Dams\CHASE PROJECT\Correspondance\Letters\Nanaimo\2016 09 26 - SM to TS - granting  
deadline extension on Middle conceptual Plan.docx

## Foran, Margo FLNR:EX

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**From:** Jan Kemp <Jan.Kemp@nanaimo.ca>  
**Sent:** Tuesday, September 13, 2016 3:06 PM  
**To:** Morgan, Scott FLNR:EX  
**Cc:** Poul Rosen; Tracy Samra  
**Subject:** Letter from Tracy Samra - Middle Chase River Dam - Status Update and Timeline  
**Attachments:** 3845\_001.pdf

Good afternoon, Scott. Please see the attached letter from Tracy Samra, CAO. Please let me know if you require the original mailed to you.

Thank you.



Jan Kemp  
Executive Assistant  
CAO's Office  
Jan.Kemp@nanaimo.ca  
Ph (250) 755-4401





2016-SEP-13

Ministry of Forests, Lands  
and Natural Resources Operations  
PO Box 9340 Stn Prov Gov't  
Victoria BC V8W 9M1

Attn: Mr. Morgan, Head, Dam Safety Section

Dear Mr. Morgan:

RE: Middle Chase River Dam – Status Update and Timeline

Thank you for your letter dated 2016-AUG-12. With the Lower Chase River Dam, the auxiliary spillway is complete and staff is looking forward to submitting the updated Operation, Maintenance and Surveillance Manual. Also, as part of the work at the Lower Dam, instrumentation upgrades have been identified and are in the process of being implemented.

In accordance with the requirement to address the Middle Chase River Dam, the City has been working with our consultant engineer, Golder Associates, to undertake the dam safety assessment (i.e. steps 1 to 4 as presented to you in the February meeting). Given the loss of three key City staff that were looking after the project file, the City has been delayed in our undertaking of this work. Golder Associates has estimated that this work will be completed by 2017-MAR-31.

In addition to undertaking the dam safety assessment, the City is pursuing the design and installation of a hydrological data collection system which includes instrumentation on the Chase River and in the catchment that will allow calibration of the hydrology model. We plan to get this instrumentation installed before the winter season to ensure we do not miss out on storm events that could be used in future model calibration.

The City is requesting an extension of the timeline outlined in the 2016-FEB-23 letter, from a target completion date of 2016-SEP-30 to 2017-MAR-31 to submit the dam safety assessment.

Thank you for your consideration in this request.

Sincerely,

Tracy Samra, LL.B., LL.M.  
Chief Administrative Officer

pc: Poul Rosen, Senior Manager, Engineering  
G:\2016 Files\Colliery Dam Park (Chase River) 6130-01\20160913\_SMorgan\_middlechaseriverdam\_updatatimeline.docx



August 12, 2016

File: 76915-20/D720001-00

Ms. Tracy Samra  
Chief Administrative Officer  
City of Nanaimo  
455 Wallace St  
Nanaimo BC V9R 5J6

Dear Ms. Samra:

**Re: Middle Chase River Dam – Update Request for Middle Dam Conceptual**

With the recent retirement of Toby Seward, I am contacting you to first extend our appreciation to you and your staff for the substantial completion of the Lower Chase River Dam auxiliary spillway project. Our office has reviewed the completed work and found it meets the intent of clause 1 of the April 29, 2015 Order. Please ensure a revised Operation, Maintenance and Surveillance manual and Dam Emergency Plan, consistent with the new (2016) Dam Safety Regulation, is prepared and submitted to our office for acceptance by April 15, 2017 as per clause 7 of our September 15, 2015 Order.

Secondly, in Toby's absence and with the departure of Geoff Goodall, I am inquiring as to who our main point of contact is going forward related to the September 15, 2015 Order for the Lower and Middle Chase River dams?

We are looking forward to receiving the results of the work of your consultant for a remediation approach to Middle Chase River Dam by September 30, 2016, as per Glen Davidson's request in his February 23, 2016 letter to you and working with you and your office further.

Sincerely,

Scott Morgan  
Head, Dam Safety Section

SMORGAN/l  
Watershare\Water\Dam\_Safety\1 new\20- Licenced Dam Case Files\Major Dams\D720001- D720002 - Chase River Dams\CHASE PROJECT\Correspondance\Letters\Nanaimo\2016 08 12 - SM to TS - Requesting update on Middle conceptual Plan.docx

Ministry of Forests, Lands and  
Natural Resource Operations

Resource Stewardship Division

Office of the Comptroller of  
Water Rights

Water Management Branch

Mailing Address:  
PO Box 9340 Stn Prov Govt  
Victoria BC V8W 9M1  
Telephone: 250-952-6790  
Facsimile: 250-953-5124

Location:  
3rd Floor 395 Waterfront Crescent  
Victoria BC V8T 5K7



## **McLean, Robert FLNR:EX**

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**From:** McLean, Robert FLNR:EX  
**Sent:** Wednesday, April 13, 2016 3:14 PM  
**To:** 'Steve Ricketts'  
**Cc:** XT:Nanaimo, City ENV:IN; Tracy Samra; Geoff Goodall; Mason, Wenda FLNR:EX; Morgan, Scott FLNR:EX; Davidson, Glen W FLNR:EX  
**Subject:** RE: Auxiliary Spillway - Construction Update

Stephen,

Thank you for the detailed update for the Lower Chase River Dam auxiliary spillway. We are very pleased with the City of Nanaimo's progress. Construction of the auxiliary spillway has been completed by the City of Nanaimo's staff and contractors with a great deal of professionalism.

A site walkover by a member of the Dam Safety Section is not required prior to April 15<sup>th</sup>. I will contact you next week to arrange a site visit before the end of April when I am next in the area.

Thank you for all the hard work completed by yourself, your staff and your contractors.

Regards,

Robert McLean, MSc, PEng  
Senior Dam Safety Engineer

BC Ministry of Forests, Lands and Natural Resource Operations  
Water Management Branch

Tel: 250-952-6805 Mobile: 250-896-0648 Fax: 250-356-0605  
Courier: 3rd Floor 395 Waterfront Crescent Victoria BC V8T 5K7  
Mail: PO Box 9340 Stn Prov Govt Victoria BC V8W 9M1  
[Robert.McLean@gov.bc.ca](mailto:Robert.McLean@gov.bc.ca)

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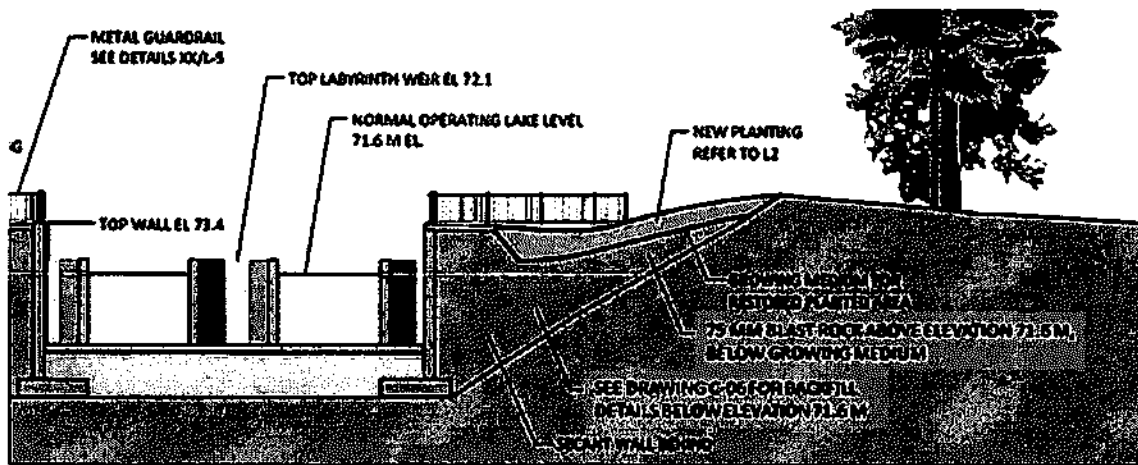
**From:** Steve Ricketts [<mailto:Stephen.Ricketts@nanaimo.ca>]  
**Sent:** Wednesday, April 13, 2016 2:10 PM  
**To:** McLean, Robert FLNR:EX  
**Cc:** XT:Nanaimo, City ENV:IN; Tracy Samra; Geoff Goodall; Mason, Wenda FLNR:EX; Morgan, Scott FLNR:EX; Davidson, Glen W FLNR:EX  
**Subject:** Auxiliary Spillway - Construction Update

I am sending this email to advise you the City of Nanaimo anticipates the auxiliary spillway construction will be substantially complete by April 15, 2016. In determining substantial completion, the spillway structure will be finished, the downstream channel will be constructed and the soil in front of the spillway will be excavated to the top of the weir walls (72.1m). This allows the spillway to operate during a flood event.

Work is anticipated to continue until mid-May to complete the project and includes:

- The soil plug in front of the spillway will be removed to the bottom of the spillway and the entrance channel constructed starting the week of April 18<sup>th</sup>.
- Final backfill of the structure above elevation 71.6m will occur including top soil placement.
- The handrail installation and finishing off the bridge deck, (membrane and concrete slurry coat).
- Installation of a boom in front of the existing and new spillway.

- Landscaping, trail reinstatement and contractor demobilization including removal of the temporary bridge.



All construction was overseen by Golder Associates and Herold Engineering for the structural components.

The City of Nanaimo will operate the spillway using the Emergency Plan previously provided until the Interim Operation Maintenance and Surveillance Manual is finalized. A copy of this interim manual will be forwarded to you when complete.

It would be great if you are available for an inspection prior to April 15, 2016. If you require further information or have any questions, please don't hesitate to give me a call.

*Stephen Ricketts*

Manager, Construction  
Engineering and Public Works



Phone: (250) 756-5329

## McLean, Robert FLNR:EX

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**From:** McLean, Robert FLNR:EX  
**Sent:** Monday, April 11, 2016 11:08 AM  
**To:** 'Steve Ricketts'  
**Subject:** RE: Colliery Dam -- TuffBoom

Stephen,

Brown is fine with us.

Thanks, Rob

---

**From:** Steve Ricketts [mailto:Stephen.Ricketts@nanaimo.ca]  
**Sent:** Friday, April 8, 2016 10:27 AM  
**To:** McLean, Robert FLNR:EX  
**Subject:** FW: Colliery Dam -- TuffBoom

Rob, here is the information on the proposed boom. As mentioned, darker colours work best for the park aesthetics. There are no power boats on the reservoir and the intent of the boom is to deter swimmers in the area for safety reasons.

If you have any questions, please feel free to give me a call

*Stephen Ricketts*

Manager, Construction  
Engineering and Public Works



Phone: (250) 756-5329

---

**From:** Jamie Saunders [mailto:innovativetechnologies@shaw.ca]  
**Sent:** Friday, April 08, 2016 9:23 AM  
**To:** 'Nonagon Holdings Ltd'  
**Cc:** Steve Ricketts; 'Craig Work'; [andrew@drewson.ca](mailto:andrew@drewson.ca)  
**Subject:** RE: Colliery Dam -- TuffBoom

Hi John,

The pleasure was all ours!

Please find the attached Tuffboom information. I will get working on the new quote made out to Copcan. Unfortunately I won't be able to get the quote out today but should have it out by Monday.

Have a great weekend!

Jamie

**From:** Nonagon Holdings Ltd [<mailto:nonagonholdings@gmail.com>]  
**Sent:** April 7, 2016 1:36 PM  
**To:** 'Jamie Saunders' <[innovativetechnologies@shaw.ca](mailto:innovativetechnologies@shaw.ca)>  
**Cc:** 'Steve Ricketts' <[Stephen.Ricketts@nanaimo.ca](mailto:Stephen.Ricketts@nanaimo.ca)>; 'Craig Work' <[CWork@Heroldengineering.com](mailto:CWork@Heroldengineering.com)>; [andrew@drewson.ca](mailto:andrew@drewson.ca)  
**Subject:** RE: Colliery Dam -- TuffBoom

Hi Jamie

On behalf of Copcan and Steve Ricketts from City of Nanaimo, we thank you for meeting with us on site this morning. As discussed, please revise your price to exclude the engineering of the two anchors, but to provide the anchor design loads to Craig Work of Herold Engineering.

We understand that the engineering parameters requested in your proposal have been provided by Golder. Also, as discussed please review the colour selection (log brown preferred by City) with regard to applicable regulations, and please advise if there is a difference in delivery time due to colour selection. Please provide additional product information such as data sheets, installation video, etc., and any advice on wording of warning text on the boom elements.

I reviewed the length of the boom, by measuring on the drawings. The straight line dimension between the shore points scales at 50 metres, so please review the curve length of boom required. As discussed, a straight boom results in increased loads on the anchors.

As noted, I am on the project temporarily, so please add Andrew Copley as a second Copcan correspondent. His contact information is below. He will return to the project in a week.

**Andrew Copley, ASCT**

Copcan Civil Ltd

1920 Balsam Road, Nanaimo, BC V9X 1T5

Office: (250) 754-7260 | Mobile: (250) 951-5851

Email: [andrew@drewson.ca](mailto:andrew@drewson.ca) | Website: [www.copcan.ca](http://www.copcan.ca)



Thanks

**JOHN BARKER, P.Eng**

**For: Copcan Civil Ltd.**

250-741-4101

250-741-1977

[NonagonHoldings@gmail.com](mailto:NonagonHoldings@gmail.com)

---

**From:** Jamie Saunders [<mailto:innovativetechnologies@shaw.ca>]

**Sent:** April-06-16 7:07 AM

**To:** 'Nonagon Holdings Ltd'

**Cc:** [pegbiecs@gmail.com](mailto:pegbiecs@gmail.com)

**Subject:** RE: Colliery Dam -- TuffBoom

Good Morning John,

Just letting you know I will be there tomorrow morning for the site visit.

Jamie

**From:** Nonagon Holdings Ltd [<mailto:nonagonholdings@gmail.com>]

**Sent:** April 1, 2016 9:33 AM

**To:** 'Steve Ricketts' <[Stephen.Ricketts@nanaimo.ca](mailto:Stephen.Ricketts@nanaimo.ca)>; 'Craig Work' <[CWork@Heroldengineering.com](mailto:CWork@Heroldengineering.com)>; 'Troy VanDyk' <[TVanDyk@copcan.ca](mailto:TVanDyk@copcan.ca)>; [Thomas.Madden@golder.com](mailto:Thomas.Madden@golder.com)

**Cc:** [innovativetechnologies@shaw.ca](mailto:innovativetechnologies@shaw.ca)

**Subject:** Colliery Dam -- TuffBoom

As discussed at our site meeting yesterday, I have contacted the TuffBoom agent, Jamie Saunders, to arrange a site visit. We have scheduled the visit for **Thursday April 7 at 9:00 AM** at the work site. Please advise if there are any difficulties with this date and time.

Purpose of the visit is to review the Worthington proposal to get a clear understanding and find solutions to the questions in the proposal in order to finalize costs.

John Barker, P.Eng.

for: Copcan Civil Ltd.

250-741-4101

250-741-1977

[NonagonHoldings@gmail.com](mailto:NonagonHoldings@gmail.com)

## McLean, Robert FLNR:EX

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**From:** McLean, Robert FLNR:EX  
**Sent:** Friday, April 8, 2016 10:31 AM  
**To:** 'Steve Ricketts'  
**Subject:** RE: Colliery Dam -- TuffBoom

Thanks Stephen,

Will discuss and get back to you.

Rob

---

**From:** Steve Ricketts [mailto:Stephen.Ricketts@nanaimo.ca]  
**Sent:** Friday, April 8, 2016 10:27 AM  
**To:** McLean, Robert FLNR:EX  
**Subject:** FW: Colliery Dam -- TuffBoom

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If you have any questions, please feel free to give me a call

*Stephen Ricketts*

Manager, Construction  
Engineering and Public Works



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**Sent:** April 7, 2016 1:36 PM  
**To:** 'Jamie Saunders' <[innovativetechnologies@shaw.ca](mailto:innovativetechnologies@shaw.ca)>  
**Cc:** 'Steve Ricketts' <[Stephen.Ricketts@nanaimo.ca](mailto:Stephen.Ricketts@nanaimo.ca)>; 'Craig Work' <[CWork@Heroldengineering.com](mailto:CWork@Heroldengineering.com)>; [andrew@drewson.ca](mailto:andrew@drewson.ca)  
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**Andrew Copley, ASCT**

Copcan Civil Ltd

1920 Balsam Road, Nanaimo, BC V9X 1T5

Office: (250) 754-7260 | Mobile: (250) 951-5851

Email: [andrew@drewson.ca](mailto:andrew@drewson.ca) | Website: [www.copcan.ca](http://www.copcan.ca)



Thanks

**JOHN BARKER, P.Eng**

**For: Copcan Civil Ltd.**

250-741-4101

250-741-1977

[NonagonHoldings@gmail.com](mailto:NonagonHoldings@gmail.com)

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**From:** Jamie Saunders [<mailto:innovativetechnologies@shaw.ca>]

**Sent:** April-06-16 7:07 AM

**To:** 'Nonagon Holdings Ltd'

**Cc:** [hegbiecs@gmail.com](mailto:hegbiecs@gmail.com)

**Subject:** RE: Colliery Dam -- TuffBoom

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**Sent:** April 1, 2016 9:33 AM

**To:** 'Steve Ricketts' <[Stephen.Ricketts@nanaimo.ca](mailto:Stephen.Ricketts@nanaimo.ca)>; 'Craig Work' <[CWork@Heroldengineering.com](mailto:CWork@Heroldengineering.com)>; 'Troy VanDyk' <[TVanDyk@copcan.ca](mailto:TVanDyk@copcan.ca)>; Thomas Madden@golder.com

**Cc:** [innovativetechnologies@shaw.ca](mailto:innovativetechnologies@shaw.ca)

**Subject:** Colliery Dam -- TuffBoom

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John Barker, P.Eng.

for: Copcan Civil Ltd.

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250-741-1977

[NonagonHoldings@gmail.com](mailto:NonagonHoldings@gmail.com)

## McLean, Robert FLNR:EX

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**Sent:** Friday, April 8, 2016 10:27 AM  
**To:** McLean, Robert FLNR:EX  
**Subject:** FW: Colliery Dam -- TuffBoom  
**Attachments:** TUFFBOOM Graphics Standards.pdf; TUFFBOOM V201511R1.pdf; TUFFBOOM Maintenance V201511R1.pdf; GREENPin Shackles V201511R1.pdf; e-Library 2013.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

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*Stephen Ricketts*

Manager, Construction  
Engineering and Public Works



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**Sent:** April 7, 2016 1:36 PM  
**To:** 'Jamie Saunders' <[innovativetechnologies@shaw.ca](mailto:innovativetechnologies@shaw.ca)>  
**Cc:** 'Steve Ricketts' <[Stephen.Ricketts@nanaimo.ca](mailto:Stephen.Ricketts@nanaimo.ca)>; 'Craig Work' <[CWork@Heroldengineering.com](mailto:CWork@Heroldengineering.com)>;

[andrew@drewson.ca](mailto:andrew@drewson.ca)

**Subject:** RE: Colliery Dam -- TuffBoom

Hi Jamie

On behalf of Copcan and Steve Ricketts from City of Nanaimo, we thank you for meeting with us on site this morning. As discussed, please revise your price to exclude the engineering of the two anchors, but to provide the anchor design loads to Craig Work of Herold Engineering.

We understand that the engineering parameters requested in your proposal have been provided by Golder. Also, as discussed please review the colour selection (log brown preferred by City) with regard to applicable regulations, and please advise if there is a difference in delivery time due to colour selection. Please provide additional product information such as data sheets, installation video, etc., and any advice on wording of warning text on the boom elements.

I reviewed the length of the boom, by measuring on the drawings. The straight line dimension between the shore points scales at 50 metres, so please review the curve length of boom required. As discussed, a straight boom results in increased loads on the anchors.

As noted, I am on the project temporarily, so please add Andrew Copley as a second Copcan correspondent. His contact information is below. He will return to the project in a week.

**Andrew Copley, AScT**

Copcan Civil Ltd

1920 Balsam Road, Nanaimo, BC V9X 1T5

Office: (250) 754-7260 | Mobile: (250) 951-5851

Email: [andrew@drewson.ca](mailto:andrew@drewson.ca) | Website: [www.copcan.ca](http://www.copcan.ca)



Thanks

**JOHN BARKER, P.Eng**

For: Copcan Civil Ltd.

250-741-4101

250-741-1977

[NonagonHoldings@gmail.com](mailto:NonagonHoldings@gmail.com)

---

**From:** Jamie Saunders [<mailto:innovativetechnologies@shaw.ca>]

**Sent:** April-06-16 7:07 AM

**To:** 'Nonagon Holdings Ltd'

**Cc:** [begbiecs@gmail.com](mailto:begbiecs@gmail.com)

**Subject:** RE: Colliery Dam -- TuffBoom

Good Morning John,

Just letting you know I will be there tomorrow morning for the site visit.

Jamie

---

**From:** Nonagon Holdings Ltd [<mailto:nonagonholdings@gmail.com>]

**Sent:** April 1, 2016 9:33 AM

**To:** 'Steve Ricketts' <[Stephen.Ricketts@nanaimo.ca](mailto:Stephen.Ricketts@nanaimo.ca)>; 'Craig Work' <[CWork@Heroldengineering.com](mailto:CWork@Heroldengineering.com)>; 'Troy VanDyk'

<TVanDyk@copcan.ca>; Thomas\_Madden@golder.com

Cc: [innovativetechnologies@shaw.ca](mailto:innovativetechnologies@shaw.ca)

Subject: Colliery Dam -- TuffBoom

As discussed at our site meeting yesterday, I have contacted the TuffBoom agent, Jamie Saunders, to arrange a site visit. We have scheduled the visit for Thursday April 7 at 9:00 AM at the work site. Please advise if there are any difficulties with this date and time.

Purpose of the visit is to review the Worthington proposal to get a clear understanding and find solutions to the questions in the proposal in order to finalize costs.

John Barker, P.Eng.  
for: Copcan Civil Ltd.

250-741-4101

250-741-1977

[NonagonHoldings@gmail.com](mailto:NonagonHoldings@gmail.com)

Page 19 to/à Page 30

Withheld pursuant to/removed as

Copyright

**Siperka, Linda FLNR:EX**

*file*

**From:** Siperka, Linda FLNR:EX on behalf of Davidson, Glen W FLNR:EX  
**Sent:** Thursday, March 17, 2016 9:30 AM  
**To:** s.22  
**Subject:** Chase River Dams, Nanaimo - Your file 76915-20/D720001-00 & D720002-00 - Ref: 216697

Dear s.22,

It has come to our attention that a response was not provided to your e-mail dated July 31, 2015 regarding Middle and Lower Chase River Dams, owned by the City of Nanaimo. Our sincere apologies for the delay in response. Minister Thompson has requested that I respond on his behalf.

I understand your frustration with the process that the City of Nanaimo chose to follow in resolving the dam safety issues identified with the Middle and Lower Chase River Dams. The objective of the Dam Safety Regulation, *Water Sustainability Act*, is to mitigate loss of life and damage to property and the environment from a dam failure by requiring owners to inspect their dams, undertake proper maintenance and ensure that their dams are operated safely and meet current engineering standards. The Province is limited to dealing directly with dam owners, in this case the City of Nanaimo, and requiring that they (the dam owner) comply with the regulation. The Province cannot specify how dam owners choose to make decisions regarding their infrastructure other than decisions must be made in a timely manner.

As I am sure you are aware, the City is currently complying with my Order of April 29, 2015 by constructing an auxiliary spillway at the Lower Dam. We will continue to work with the City and their engineers in regard to these dams to ensure compliance with the regulation in as timely a manner as possible.

Thank you for taking the time to write.

Sincerely,

Glen Davidson, P.Eng.  
Comptroller of Water Rights

**Siperka, Linda FLNR:EX**

---

**Subject:** FW: Draft Wording CLIFF Log ID 216697 - updated - RS-WM to respond

---

**From:** Mason, Wenda FLNR:EX  
**Sent:** Tuesday, August 11, 2015 9:10 PM  
**To:** Siperka, Linda FLNR:EX  
**Subject:** FW: Draft Wording CLIFF Log ID 216697 - updated - RS-WM to respond

May as well do this one now...please have Glen review the response<sup>s.22</sup> and if he is ok with it, then it can be processed.

Thanks  
W.

Dear<sup>s.22</sup> .....

Thank you for your e-mail dated July 31, 2015 regarding Middle and Lower Chase River Dams, owned by the City of Nanaimo. Minister Thompson has requested that I respond on his behalf.

I understand your frustration with the process undertaken by the City of Nanaimo to resolve the dam safety issues identified with the Middle and Lower Chase River Dams. It is an unusual situation. The objective of the BC Dam Safety Regulation, *Water Act*, is to mitigate loss of life and damage to property and the environment from a dam breach by requiring dam owners to inspect their dams, undertake proper maintenance and ensure that their dams meet current engineering standards. The Province is limited to dealing directly with dam owners, in this case the City of Nanaimo, and requiring that they comply with the regulation and cannot specify how municipal jurisdictions, for example, may choose to make decisions regarding their infrastructure.

As per the letter to the City of July 16, 2015, if necessary, the Province is prepared to pursue enforcement action should the City fail to comply with the order. Further, in a letter to the City dated August 7, 2015, the province has reiterated that the Comptroller expects compliance with the dates set out in that letter and in the order of April 29, 2015.

Thank you for taking the time to write.

Sincerely  
Tom Ethier

---

**From:** Siperka, Linda FLNR:EX  
**Sent:** Tuesday, August 11, 2015 11:00 AM  
**To:** Mason, Wenda FLNR:EX  
**Subject:** FW: Draft Wording CLIFF Log ID 216697 - updated - RS-WM to respond

Hi Wenda,

For review and assignment please.



Thanks,  
Linda

**From:** FLNR Correspondence Services [mailto:cliff.ops@gov.bc.ca]  
**Sent:** Friday, August 7, 2015 4:41 PM  
**To:** Siperka, Linda FLNR:EX  
**Subject:** Draft Wording CLIFF Log ID 216697 - updated - RS-WM to respond

REPLY DIRECT obo Minister.  
RS-Water Management - this has now been redirected to you for response

1. Please reply direct to the writer on behalf of Minister Steve Thomson (MST)
2. Ensure you copy MST on response
3. Add response as attachment in CLIFF log
4. Update log notes
5. Close log

This is due by August 27.

**DM-CSS Referral Slip for ID:216697**

2015/08/07

<b>Log Type:</b> Email	<b>Action:</b> Draft Response	<b>Due:</b> 2015/08/27
<b>Batch:</b>	<b>Subaction:</b> Staff	

**Author Type:** Private Citizen  
s.22

Nanaimo, BC,

**Phone:** s.22

**Cell:**

**Email:**

**Written:** 2015/07/31 **Resp Type:**

**Received:** 2015/08/07 **File No.:**

**Due:** 2015/08/27 **Entered By:** shipkin

**Approved:** **Approved By:**

**Signed:** **Sign By:**

**Closed:**

**Secondary Authors**

**Author Type:** Private Citizen  
s.22

**Address To:** Minister Thomson and Glen Davidson FLNR

**Copy To:**

**Rsp Office:** RS-Water Management

**Issue:** Water Licence

**X-Ref:**

**Drafter:**

**Subject**

Chase River Dams, Nanaimo - Your File #76915-20/D720001-00 & D720002-00 - We strongly urge the Ministry to amend legislation so, that when a water licence holder is a municipality, that laypeople (whether in the community, or on council), not be in a position to essentially take over the file, when the municipality is requested to comply with legislation regarding dam safety and potential safety risk to the public.

**Log Notes**

2015/08/07 REPLY DIRECT obo Minister.

RS-Water Management - this has now been redirected to you for response

1. Please reply direct to the writer on behalf of Minister Steve Thomson (MST)
2. Ensure you copy MST on response
3. Add response as attachment in CLIFF log
4. Update log notes
5. Close log

This is due by August 27.

2015/08/07 as per Larry Barr, advised CSS to redirect to Glen Davidson or Wenda Mason in branch for response; CLIFF updated and closed West Coast RED referral

2015/08/07 rec'd from CSS; to Larry Barr for review/coordinating with branch as appropriate. Larry to let Vinka and Sangita know who will be responding.

2015/08/07 REPLY DIRECT obo Minister.

RED-West Coast:

1. Please reply direct to the writer on behalf of Minister Steve Thomson (MST)
2. Ensure you copy MST on response
3. Add response as attachment in CLIFF log
4. Update log notes
5. Close log

This is due by August 27. Please coordinate with the RS-Water Management branch as needed. RS-WM have been asked to providing input as needed.

## **McLean, Robert FLNR:EX**

---

**From:** McLean, Robert FLNR:EX  
**Sent:** Thursday, February 25, 2016 9:11 AM  
**To:** Telfer, Kevin FLNR:EX; 'Steve Ricketts'  
**Cc:** Henigman, Margaret FLNR:EX  
**Subject:** RE: Removal of coal spoil material from Harewood Creek stream bank

Hi Kevin,

I have discussed this with Steve Ricketts, he is the manager of engineering construction and is overseeing the construction of the auxiliary spillway. His contact information is as follows:

[Stephen.Ricketts@nanaimo.ca](mailto:Stephen.Ricketts@nanaimo.ca)

250-756-5321

Thanks, Rob

---

**From:** Telfer, Kevin FLNR:EX  
**Sent:** Thursday, February 25, 2016 9:08 AM  
**To:** McLean, Robert FLNR:EX  
**Cc:** Henigman, Margaret FLNR:EX  
**Subject:** RE: Removal of coal spoil material from Harewood Creek stream bank

Thanks Rob

Do you have a name and contact number for the appropriate person with the city?

*Kevin L. Telfer* R.P.Bio., R.P.F.  
Ecosystem Biologist/Habitat Officer  
BC Ministry of Forests, Lands, and Natural Resource Operations  
2080A-Labieux Road, Nanaimo, B.C. V9T 6J9  
tel. (250) 751-3222  
<mailto:Kevin.Telfer@gov.bc.ca>

---

**From:** McLean, Robert FLNR:EX  
**Sent:** Thursday, February 25, 2016 9:06 AM  
**To:** Telfer, Kevin FLNR:EX  
**Cc:** Henigman, Margaret FLNR:EX; Baldwin, John FLNR:EX  
**Subject:** RE: Removal of coal spoil material from Harewood Creek stream bank

Hi Kevin,

Thanks for the email. Please coordinate directly with City of Nanaimo personnel as there is no need for me to attend a site meeting on this issue.

Cheers,  
Rob

---

**From:** Telfer, Kevin FLNR:EX  
**Sent:** Wednesday, February 24, 2016 4:10 PM  
**To:** McLean, Robert FLNR:EX  
**Cc:** Henigman, Margaret FLNR:EX; Baldwin, John FLNR:EX  
**Subject:** FW: Removal of coal spoil material from Harewood Creek stream bank

Hello Robert

Margaret<sup>s.22</sup> has asked me to stick-handle this issue.

I<sup>s.22</sup> can do an onsite the week of March 7<sup>th</sup>.

*Kevin L. Telfer* R.P.Bio., R.P.F.  
Ecosystem Biologist/Habitat Officer  
BC Ministry of Forests, Lands, and Natural Resource Operations  
2080A-Labieux Road, Nanaimo, B.C. V9T 6J9  
tel. (250) 751-3222  
<mailto:Kevin.Telfer@gov.bc.ca>

---

**From:** Henigman, Margaret FLNR:EX  
**Sent:** Wednesday, February 24, 2016 4:00 PM  
**To:** Telfer, Kevin FLNR:EX  
**Subject:** FW: Removal of coal spoil material from Harewood Creek stream bank

Hi Kevin; I'm wondering if you would be willing/able to take a look at this with the City of Nanaimo's Env monitor for the Colliery Dam refit project. There is apparently a coal spoil pile on the auxiliary spillway that they want to excavate now and I had expressed some misgivings about this work in light of the timing access and potential for sediment/coal slag release into Harewood (or Wexford?) Ck.

I'm not able to arrange an on-site<sup>s.22</sup> and was wondering if you would mind contacting Steve Rickets from the city and Scott Morgan with Dam safety about arranging an on-site in the short term??

Thanks,  
Maggie

---

**From:** McLean, Robert FLNR:EX  
**Sent:** Wednesday, February 24, 2016 11:52 AM  
**To:** Henigman, Margaret FLNR:EX

**Cc:** 'Steve Ricketts'; Morgan, Scott FLNR:EX

**Subject:** Removal of coal spoil material from Harewood Creek stream bank

Hi Margaret,

I believe Scott Morgan and you have exchanged a few phone messages regarding coal spoil fill material that has been observed on the bank of Harewood Creek in Nanaimo, immediately downstream of the Lower Colliery Dam auxiliary spillway that is currently under construction. The City of Nanaimo's consultant has indicated that during a flood event the water level and velocity in the creek may potentially cause erosion of the coal spoil material. I suspect the material has been in place for approximately 100 years judging by the age of the dam.

Concrete abutments from a former railway bridge are located in the creek at the location of the coal spoil pile and act as a divider between the creek and the spoil material. The creek bottom at the area of the coal spoil material and concrete abutments consists of bedrock. The City of Nanaimo's consultant and my site observations indicate the Harewood Creek depth is controlled by bedrock and the natural surficial unconsolidated materials consist primarily of coarse-grained materials consisting of sands, gravels, and cobbles.

The City of Nanaimo wish to excavate and remove the coal spoil material utilizing an excavator that is currently onsite for the auxiliary spillway construction. It is my understanding the City of Nanaimo regularly excavate and remove such coal spoil material when repairing underground utilities in the city.

I anticipate the natural material below the coal spoil is coarse-grained and erosion protection will not be required to prevent fine particles (clay and silt) from entering Harewood Creek during a subsequent rainstorm. The City of Nanaimo has had very good environmental controls in place during the construction of the auxiliary spillway and I have confidence the city will remove the coal spoil material with minimal or no impact to Harewood Creek.

With respect to dam safety, my group have no opinion as to whether the material needs to be removed and it appears to be more of an environmental issue unrelated to the safety of the dam.

I have included Stephen Ricketts and Scott Morgan in the distribution of this email. Please contact Stephen directly to discuss details of the planned removal of the coal spoil material.

Please let me know if you have any questions.

Regards,

Robert McLean, MSc, PEng  
Senior Dam Safety Engineer

BC Ministry of Forests, Lands and Natural Resource Operations  
Water Management Branch

Tel: 250-952-6805 Mobile: 250-896-0648 Fax: 250-356-0605  
Courier: 3rd Floor 395 Waterfront Crescent Victoria BC V8T 5K7  
Mail: PO Box 9340 Stn Prov Govt Victoria BC V8W 9M1  
[Robert.McLean@gov.bc.ca](mailto:Robert.McLean@gov.bc.ca)

## **Foran, Margo FLNR:EX**

---

**From:** Foran, Margo FLNR:EX  
**Sent:** Wednesday, February 24, 2016 2:34 PM  
**To:** 'tracy.samra@nanaimo.ca'  
**Cc:** Morgan, Scott FLNR:EX; 'Toby.Seward@Nanaimo.ca'  
**Subject:** Middle Chase River Dam - Potential Safety Hazard Conceptual Plan Acceptance  
**Attachments:** Middle Chase River Dam Feb23\_16.pdf

Dear Tracy Samra,

Attached is a letter regarding Middle Chase River Dam - Potential Safety Hazard Conceptual Plan Acceptance.

The original letter is in the mail.

Kind regards,

***Margo Foran***

Records Coordinator | Water Management Branch HQ  
Ministry of Forests, Lands and Natural Resource Operations  
PO Box 9340 Stn Prov Govt, Victoria BC V8W 9M1  
tel 250.387.6341



February 23, 2016

File: 76915-20/D720001-00  
CLIFF x-ref: 219370

Ms. Tracy Samra  
City Manager  
City of Nanaimo  
455 Wallace St  
Nanaimo BC V9R 5J6

Dear Ms. Samra:

**Re: Middle Chase River Dam – Potential Safety Hazard Conceptual Plan Acceptance**

We wish to thank you, other City of Nanaimo ("City") staff and representatives of the City's consultant, Golder Associates Ltd. ("Golder"), for coming to Victoria on February 16, 2016 to meet with me and staff from the Comptroller of Water Rights' office ("Comptroller") to provide a better explanation of Golder's December 21, 2015 "Conceptual Plan for Dam Safety Analysis of the Middle Dam" (the "conceptual plan") for Middle Chase River Dam. Please also extend our thanks to Jeff Solomon, representative for the Colliery Dam Park Preservation Society, for attending.

As noted at the meeting, the City of Nanaimo is to be commended for the progress to date with the Lower Chase River Dam's auxiliary spillway project as we understand the project is 1 to 2 weeks ahead of schedule.

Regarding the conceptual plan for the dam safety analysis of Middle Chase River Dam; at your earliest convenience, please provide copies of the PowerPoint presentations provided by Golder at the February 16, 2016 meeting as they form part of the record of the meeting and are a necessary supplement to the December 21, 2015 conceptual plan. As noted in the January 13, 2016 letter requesting a meeting, information provided by the City during the meeting may be used in determining whether the conceptual plan meets the requirements of section 2(a) of the Comptroller's April 29, 2015 Order.

Further to my letter of December 23, 2016 and our February 16, 2016 meeting during which Golder provided the above requested PowerPoint presentations, our office has determined that the five steps outlined in the conceptual plan, as supplemented by the information in Golder's PowerPoint presentations, meets the requirements of section 2 (a) of the Comptroller's April 29, 2015 Order. As recommended by Golder in the conceptual plan and clarified during the meeting, the majority of the work contemplated by the conceptual plan is to be carried out once the key components for the Lower Dam remediation have been completed. This recommendation is acceptable to our office.

.../2

Ministry of Forests, Lands and  
Natural Resource Operations

Resource Stewardship Division

Office of the Comptroller of  
Water Rights

Water Management Branch

Mailing Address:  
PO Box 9340 Stn Prov Govt  
Victoria BC V8W 9M1  
Telephone: 250-952-6790  
Facsimile: 250-953-5124

Location:  
3rd Floor 395 Waterfront Crescent  
Victoria BC V8T 5K7



Please submit the results of the work outlined in steps 1 through 4 in Golder's conceptual plan (including the City's proposed remediation approach for Middle Dam) to this office by September 30, 2016 for review and decision by this office as to acceptance of the proposed remediation approach for Middle Dam based on the results of the work.

Finally, please also be reminded of the implementation requirements in section 2 (b) of the Comptroller's April 29, 2015 Order, which states that the City must:

- b) Implement the revised plan for Middle Dam, based on the priorities identified in the plan, within a reasonably expeditious time frame but no later than the end of 2017, and in accordance with Section 4 and 7.1 of the B.C. Dam Safety Regulation, as applicable to any alteration, improvement or replacement to all or any part of the dam intended to correct a potential safety hazard and which must be implemented in a timely manner.*

Sincerely,



Glen Davidson, P.Eng.  
Comptroller of Water Rights

cc. Toby Seward, A/Senior Director of Strategic Operations, City of Nanaimo  
Scott Morgan, Section Head, Dam Safety, Water Management Branch, FLNR



## **McLean, Robert FLNR:EX**

---

**From:** Steve Ricketts <Stephen.Ricketts@nanaimo.ca>  
**Sent:** Wednesday, February 24, 2016 1:34 PM  
**To:** Jolley, William FLNR:EX; McLean, Robert FLNR:EX  
**Cc:** Morgan, Scott FLNR:EX; 'Andrew Copley'  
**Subject:** RE: Lower Colliery Dam Site Visit

Thanks Will. I look forward to it.

I copied Andrew Copley. He is Copcan's project manager. There will be a safety orientation prior to entering the worksite.

---

**From:** Jolley, William FLNR:EX [<mailto:William.Jolley@gov.bc.ca>]  
**Sent:** Wednesday, February 24, 2016 12:23 PM  
**To:** McLean, Robert FLNR:EX; Steve Ricketts  
**Cc:** Morgan, Scott FLNR:EX  
**Subject:** RE: Lower Colliery Dam Site Visit

Hi Stephen, Rob gave you the wrong arrival time. We plan to be at the site at 11:00 and leave at noon. Sorry for any confusion. Will

---

**From:** McLean, Robert FLNR:EX  
**Sent:** Wednesday, February 24, 2016 12:02 PM  
**To:** 'Steve Ricketts'  
**Cc:** Jolley, William FLNR:EX; Morgan, Scott FLNR:EX  
**Subject:** Lower Colliery Dam Site Visit

Hi Stephen,

Our plan is to visit the site on Thursday March 10<sup>th</sup> from 9:45am until noon. We will have approximately 20 people. They have been notified to bring appropriate PPE.

Regards,

Robert McLean, MSc, PEng  
Senior Dam Safety Engineer

BC Ministry of Forests, Lands and Natural Resource Operations  
Water Management Branch

Tel: [250-952-6805](tel:250-952-6805) Mobile: 250-896-0648 Fax: 250-356-0605  
Courier: 3rd Floor 395 Waterfront Crescent Victoria BC V8T 5K7  
Mail: PO Box 9340 Stn Prov Govt Victoria BC V8W 9M1  
[Robert.McLean@gov.bc.ca](mailto:Robert.McLean@gov.bc.ca)

## **McLean, Robert FLNR:EX**

---

**From:** McLean, Robert FLNR:EX  
**Sent:** Wednesday, February 24, 2016 12:02 PM  
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**Robert McLean, MSc, PEng**  
Senior Dam Safety Engineer

BC Ministry of Forests, Lands and Natural Resource Operations  
Water Management Branch

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Courier: 3rd Floor 395 Waterfront Crescent Victoria BC V8T 5K7  
Mail: PO Box 9340 Stn Prov Govt Victoria BC V8W 9M1  
[Robert.McLean@gov.bc.ca](mailto:Robert.McLean@gov.bc.ca)

## **McLean, Robert FLNR:EX**

---

**From:** McLean, Robert FLNR:EX  
**Sent:** Wednesday, February 24, 2016 9:00 AM  
**To:** 'Steve Ricketts'  
**Subject:** Removal of coal spoil material at Harewood Creek

Hi Stephen,

My apology for not getting back to you sooner on this. Scott has been playing phone tag with a fisheries biologist on the issue.

I would like to send the biologist an email summarizing a plan for removal of the material as well as the slides that Golder presented during our phone discussion on November 12, 2016. I have drafted a removal plan and would like to discuss with you first before sending it to the biologist.

I will be in the office only until noon today and will be in all day Thursday and Friday.

Thanks,

**Robert McLean, MSc, PEng**  
Senior Dam Safety Engineer

BC Ministry of Forests, Lands and Natural Resource Operations  
Water Management Branch

Tel: 250-952-6805 Mobile: 250-896-0648 Fax: 250-356-0605  
Courier: 3rd Floor 395 Waterfront Crescent Victoria BC V8T 5K7  
Mail: PO Box 9340 Stn Prov Govt Victoria BC V8W 9M1  
[Robert.McLean@gov.bc.ca](mailto:Robert.McLean@gov.bc.ca)



February 23, 2016

File: 76915-20/D720001-00  
CLIFF x-ref: 219370

Ms. Tracy Samra  
City Manager  
City of Nanaimo  
455 Wallace St  
Nanaimo BC V9R 5J6

Dear Ms. Samra:

**Re: Middle Chase River Dam – Potential Safety Hazard Conceptual Plan Acceptance**

We wish to thank you, other City of Nanaimo ("City") staff and representatives of the City's consultant, Golder Associates Ltd. ("Golder"), for coming to Victoria on February 16, 2016 to meet with me and staff from the Comptroller of Water Rights' office ("Comptroller") to provide a better explanation of Golder's December 21, 2015 "Conceptual Plan for Dam Safety Analysis of the Middle Dam" (the "conceptual plan") for Middle Chase River Dam. Please also extend our thanks to Jeff Solomon, representative for the Colliery Dam Park Preservation Society, for attending.

As noted at the meeting, the City of Nanaimo is to be commended for the progress to date with the Lower Chase River Dam's auxiliary spillway project as we understand the project is 1 to 2 weeks ahead of schedule.

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.../2

Ministry of Forests, Lands and  
Natural Resource Operations  
  
Resource Stewardship Division

Office of the Comptroller of  
Water Rights  
  
Water Management Branch

Mailing Address:  
PO Box 9340 Stn Prov Govt  
Victoria BC V8W 9M1  
Telephone: 250-952-6790  
Facsimile: 250-953-5124

Location:  
3rd Floor 395 Waterfront Crescent  
Victoria BC V8T 5K7



Please submit the results of the work outlined in steps 1 through 4 in Golder's conceptual plan (including the City's proposed remediation approach for Middle Dam) to this office by September 30, 2016 for review and decision by this office as to acceptance of the proposed remediation approach for Middle Dam based on the results of the work.

Finally, please also be reminded of the implementation requirements in section 2 (b) of the Comptroller's April 29, 2015 Order, which states that the City must:

- b) Implement the revised plan for Middle Dam, based on the priorities identified in the plan, within a reasonably expeditious time frame but no later than the end of 2017, and in accordance with Section 4 and 7.1 of the B.C. Dam Safety Regulation, as applicable to any alteration, improvement or replacement to all or any part of the dam intended to correct a potential safety hazard and which must be implemented in a timely manner.*

Sincerely,



Glen Davidson, P.Eng.  
Comptroller of Water Rights

cc. Toby Seward, A/Senior Director of Strategic Operations, City of Nanaimo  
Scott Morgan, Section Head, Dam Safety, Water Management Branch, FLNR

SM/mf

\\herder\S04051\Watershare\Water\Dam\_Safety\I new\20- Licenced Dam Case Files\Major Dams\D720001- D720002 - Chase River Dams\CHASE PROJECT\Correspondance\Letters\Nanaimo\2016 02 23 - GD to TS - Acceptance of Middle conceptual Plan.docx

## **Foran, Margo FLNR:EX**

---

**From:** Foran, Margo FLNR:EX  
**Sent:** February-24-16 2:34 PM  
**To:** 'tracy.samra@nanaimo.ca'  
**Cc:** Morgan, Scott FLNR:EX; 'Toby.Seward@Nanaimo.ca'  
**Subject:** Middle Chase River Dam - Potential Safety Hazard Conceptual Plan Acceptance  
**Attachments:** Middle Chase River Dam Feb23\_16.pdf

Dear Tracy Samra,

Attached is a letter regarding Middle Chase River Dam - Potential Safety Hazard Conceptual Plan Acceptance.

The original letter is in the mail.

Kind regards,

***Margo Foran***

Records Coordinator | Water Management Branch HQ  
Ministry of Forests, Lands and Natural Resource Operations  
PO Box 9340 Stn Prov Govt, Victoria BC V8W 9M1  
tel 250.387.6341

## Foran, Margo FLNR:EX

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**From:** Geoff Goodall <Geoff.Goodall@nanaimo.ca>  
**Sent:** Tuesday, February 23, 2016 4:49 PM  
**To:** Mason, Wenda FLNR:EX  
**Cc:** Tracy Samra; Toby Seward  
**Subject:** FW: Golder & Associates Presentation  
**Attachments:** Nanaimo Colliery Dams Risk Assessment 16Feb2016 (rev ani).pdf; PRESENTATION\_Feb 16.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

Wenda

It was very nice meeting you last week and I look forward to working with you as we move forward on the Colliery file. I have enclosed copies of both the presentations that Golder presented at our February 16 meeting. Let me know if you require anything further.

Geoff Goodall  
Director of Engineering & Public Works  
(250) 756-5301



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## **Foran, Margo FLNR:EX**

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**From:** Toby Seward <Toby.Seward@nanaimo.ca>  
**Sent:** Friday, February 12, 2016 4:57 PM  
**To:** Mason, Wenda FLNR:EX  
**Cc:** Geoff Goodall  
**Subject:** 2016-02-12 FW: Feb. 16 meeting on Colliery Dams

**Subject:** FW: Feb. 16 meeting on Colliery Dams

Hello Wenda

For the meeting Feb. 16 at your office, we are planning to have Bruce Downing and Bill Roberds (Golder's risk expert) provide a presentation on the Middle Dam, as outlined in Golder's letter 2015-Dec-21. Tracy Samra, City Manager, Geoff Goodall and I will attend on behalf of the city. Also, CDPPS has requested that they have a representative attend the meeting to hear Golder's strategy for the Middle Dam. Jeff Solomon has confirmed he wishes to represent CDPPS at the meeting.