

Stolar, Harold B FLNR:EX

From: Weir, David J FLNR:EX
Sent: Tuesday, September 23, 2014 8:13 AM
To: Dean, Sharon GCPE:EX; Fenwick, Leigh-Ann ENV:EX; Hoffos, Robin FLNR:EX; Henley, Margaret TRAN:EX; Bunce, Hubert ENV:EX; Stolar, Harold B FLNR:EX
Cc: Williston, Lee X FLNR:EX; XT:Carpenter, Penny FLNR:IN
Subject: Mount Polley Update on Quesnel Lake Clean up
Attachments: FW: Emailing: Post Construction Report Quesnel Lake Debris Cleanup; FW: Emailing: Addendum to Mount Polley Debris Clean Up in Quesnel Lake Sept 15th

Please find the attached information for the record and in preparation for the boat trip on Sep 29th 2014.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake, BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

Stolar, Harold B FLNR:EX

From: XT:Carpenter, Penny FLNR:IN
Sent: Tuesday, September 23, 2014 7:18 AM
To: Weir, David J FLNR:EX
Subject: FW: Emailing: Post Construction Report Quesnel Lake Debris Cleanup
Attachments: Post Construction Report Quesnel Lake Debris Cleanup.pdf

Hi David
Here are some reports from DWB.
Penny

-----Original Message-----

From: Brian Aitken [<mailto:baitken@dwiconsulting.ca>]
Sent: September-21-14 6:24 PM
To: [s.22](#)
Subject: Emailing: Post Construction Report Quesnel Lake Debris Cleanup

Penny this bounce back again. Please confirm receipt.

Brian



August 26, 2014

Ministry of Forests, Lands and Natural Resource Operations
Water Stewardship Cariboo Region
400-640 Borland Street
Williams Lake, BC, V2G 4T1

DWB File No 14274-219

Attention: David Weir, PAg – Water Section Head

RE: Mount Polley Tailings Pond Failure Debris Clean-Up in Quesnel Lake

DWB Consulting Services LTD (DWB) was retained by Imperial Metals to provide engineering and environmental expertise on the clean up of wood debris from the Polley Mine tailings dam failure. The construction of a ramp at the West Fraser reload site was proposed, the end of which a button top could sit upon and deck logs from the floating log booms, while loaders moved the decked logs up to the sorting area. Emily Cheung, PEng, created a design for this ramp, the dimensions of which were subject to the discretion of the client, while Brian Aitken, RPBio, formulated an environmental impact mitigation plan for the construction of the ramp. These engineering and environmental management plans (Mount Polley Tailings Pond Failure Debris Clean-Up in Quesnel Lake dated August 20th) were sent to Penny Carpenter of Eaglecrest and Russel Gibson of Imperial Metals on August 21st.

On August 22nd, Josef Lerch of DWB was sent to the West Fraser reload site as an environmental and construction monitor (ECM). The ECM was present onsite for all hours of ramp construction until completion at 15:45 on August 25th. He completed a daily journal of construction activities as well as a daily environmental inspection report.

Due to water levels receding in Quesnel Lake, the ramp needed to be extended. On September 8th and 9th the ramp was extended while monitored full time by Nathan Shaw of DWB.

Ramp Construction Monitoring

The ramp design called for a foundation of class 50kg rip-rap. Most of the rock loads coming from the rock quarry had a heavier initial gradation. However, the rock was conglomerate, so it broke down to pieces more representative of class 50 kg rip rap after the dozer had moved and compacted it.



FIGURE 1: ROCK LARGER THAN CLASS 50KG



FIGURE 2: ROCK CRUSHED BY DOZER

When the rip rap foundation had been built out to a drivable width of 7 meters and a length of 22 meters from the Present Water Level (PWL) at the shore, Russel Gibson declared it sufficient for their wood removal requirements at that time. At this point, the water depth off the end of the ramp was 1.53m. The



rip-rap foundation was built up to be 0.3 meters above the water level. The estimated volume of the final rip rap foundation is 350 cubic meters and 38 rock truck loads were counted in the delivery of this rip rap.



FIGURE 3: COMPLETED RIP RAP FOUNDATION

The rip rap was covered from the High Water Mark (HWM) to the tip of the ramp by thick, non-woven geo membrane with two strips down the sides and one strip down the middle, resulting in a minimum overlap of 1.5 meters. The specifications of the geo membrane used may be determined from the following photos.



FIGURE 4: NON-WOVEN GEO MEMBRANE USED OVER RIP RAP



FIGURE 5: GEO MEMBRANE OVERLAYING THE RIP RAP

The ramp was topped with a 30 cm thick packed layer of finer shot rock. The gradation of this top layer can be seen in Figure 6.

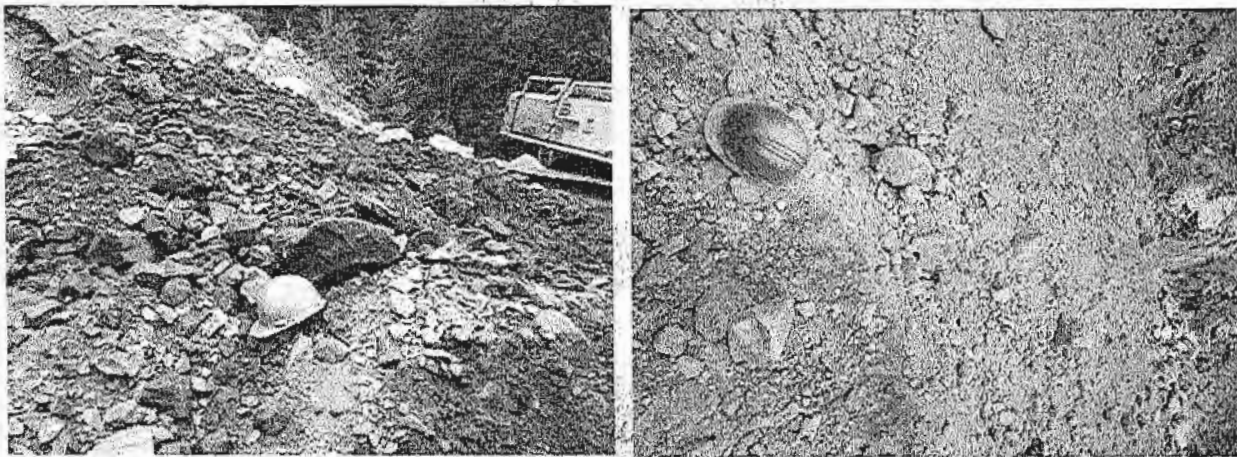


FIGURE 6: GRADATION OF MATERIAL USED TO TOP RAMP

The final length of the topping layer was 44m with a drivable width of 5.5 meters at the HWM and a drivable width of 5 m at the tip of the ramp. The total compressed volume of this topping layer was approximately 76 cubic meters, and was delivered in 11 rock truck loads. Figure 7 shows the completed ramp. The ramp is estimated to cover a lakebed area of 420 square meters.

The sides of the ramp were not constructed at a 2:1 (H:V) slope, as was initially prescribed in the engineering plan. However, pink marking paint was used to delineate the outer extent of where machinery is intended to travel so that it won't enter the 2:1 side slope area. The space between the marked lines is still greater than 5 meters wide at the outer edge of the ramp.

The ramp was extended on September 8th and 9th, 2014 as the button top was having difficulty accessing the wood due to the receding water level and the large stumps associated with some of the debris. The ramp was



extended approximately 16 meters (8 meters per day) using the same materials and methodology mentioned above to allow for greater access to the debris while limiting the agitation to the lake bottom from debris dragging during the removal. The extension was also completed in isolation utilizing turbidity curtains. Slopes were maintained at 2:1 along the sides and at 1:1 off of the end.

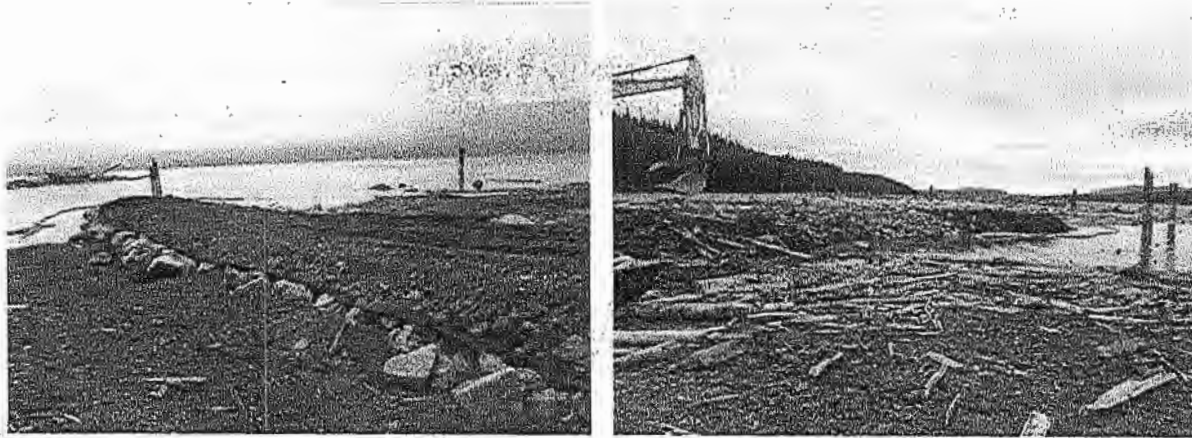


FIGURE 7: COMPLETED RAMP AND RAMP EXTENSION



FIGURE 8: PINK MARKING PAINT OUTLINING EDGE OF PRESCRIBED TRAVEL SURFACE



Environmental Monitoring

Several measures were taken to reduce the impact of the ramp construction on localized freshwater habitat. A silt curtain was used to encompass the construction area with the purpose of decreasing the turbidity of the surrounding lake water. The water within the silt curtain became turbid from the fines that were introduced with the rip rap as well as from the fines that were stirred up from the lake bed. Such fines can clog fish gills, which may reduce the fish's resistance to diseases¹, so minimizing the spread of such fines is an important consideration when working in and around water. Although fines were noticed pushing through the silt curtain during an hour of elevated wave activity on August 22nd, the curtain made significant difference for the majority of the construction time.



FIGURE 9: THE SILT CURTAIN EFFECTIVELY CONTAINED MOST OF THE FINES DURING CONSTRUCTION

¹ USEPA, <http://water.epa.gov/type/rs/monitoring/vms55.cfm>, Retrieved, 26/08/14



Turbidity levels were monitored with the use of a turbidity meter. One sampling location was situated 2 m from the curtain inside the construction zone. A second sampling location was 10 meters from the outer edge of the curtain. A background sample was collected several hundred meters down the beach for a reference of ambient lake turbidity. Samples were taken at 2 hour intervals at a depth of 0.3 meters below the water surface. Table 1 shows the turbidity readings that were collected over the course of the ramp construction and extension.

TABLE 1: TURBIDITY MEASUREMENTS

Date	Time	Standard		Location			Notes
		1.0 NTU	10.0NTU	Background	10 m outside curtain	2 m inside curtain	
22. August	14:30	0.6	6.68	0.06	0.3	10.78	
	16:30	0.8	6.75	0.89	2.33	33.8	
23. August	7:30	0.26	6.35	0.46	0.71	8.03	Pre-work Silk curtain moved 11:45- 12:15
	9:30	0.92	5	0.2	0.42	29.8	
	11:30	1.01	5.93	0.1	0.23	31.7	
	13:30	0.53	6.63	0.24	2.7	11.3	
24. August	7:30	0.46	4.47	0.11	0.01	3.14	Pre-work 10cm waves
	9:30	0.62	5.92	1.07	1.03	3.24	
	11:30	0.56	4.59	0.02	0.18	6.98	
	13:30	0.83	6.76	0.56	0.91	6.94	10cm waves
	15:30	0.74	6.82	1.31	0.61	10.96	
	17:15	0.77	6.91	0.69	0.69	5.89	
25. August	7:30	0.7	6.91	0.33	0	0.45	Pre-work
	9:30	0.98	7.07	3.02	1.14	1.46	
	12:30	0.82	6.58	-0.03	0.82	0.63	
	2:30	0.89	6.96	0.38	0.53	1.72	
09. September	8:40			3.8	4	34.7	
	10:40			3.5	4.9	21.8	
	12:40			1	0.9	1.8	
	14:40			0.2	0.4	7.2	

Evidently, the silt curtain significantly contained turbidity. It should be noted that background turbidity levels occasionally exceeded those measured outside the silt curtain. This may be attributed to the exposure of wave activity at the background location, while the construction site was sheltered by a bay and by the floating logs tied to the dolphin piles offshore.

Fish salvage was attempted within the silt curtain by setting minnow traps baited with sardines. Over the course of the 4 days, 1 burbot, 2 trout, 2 bottom suckers, 1 white fish, and 75 minnows were caught in the traps and released on the outside of the silt curtain. During the ramp extension, fish salvage efforts



continued inside the site isolation with the removal of 36 Northern Pikeminnow and 1 Peamouth Chub. Some of the trapped fish are displayed in the figures below.

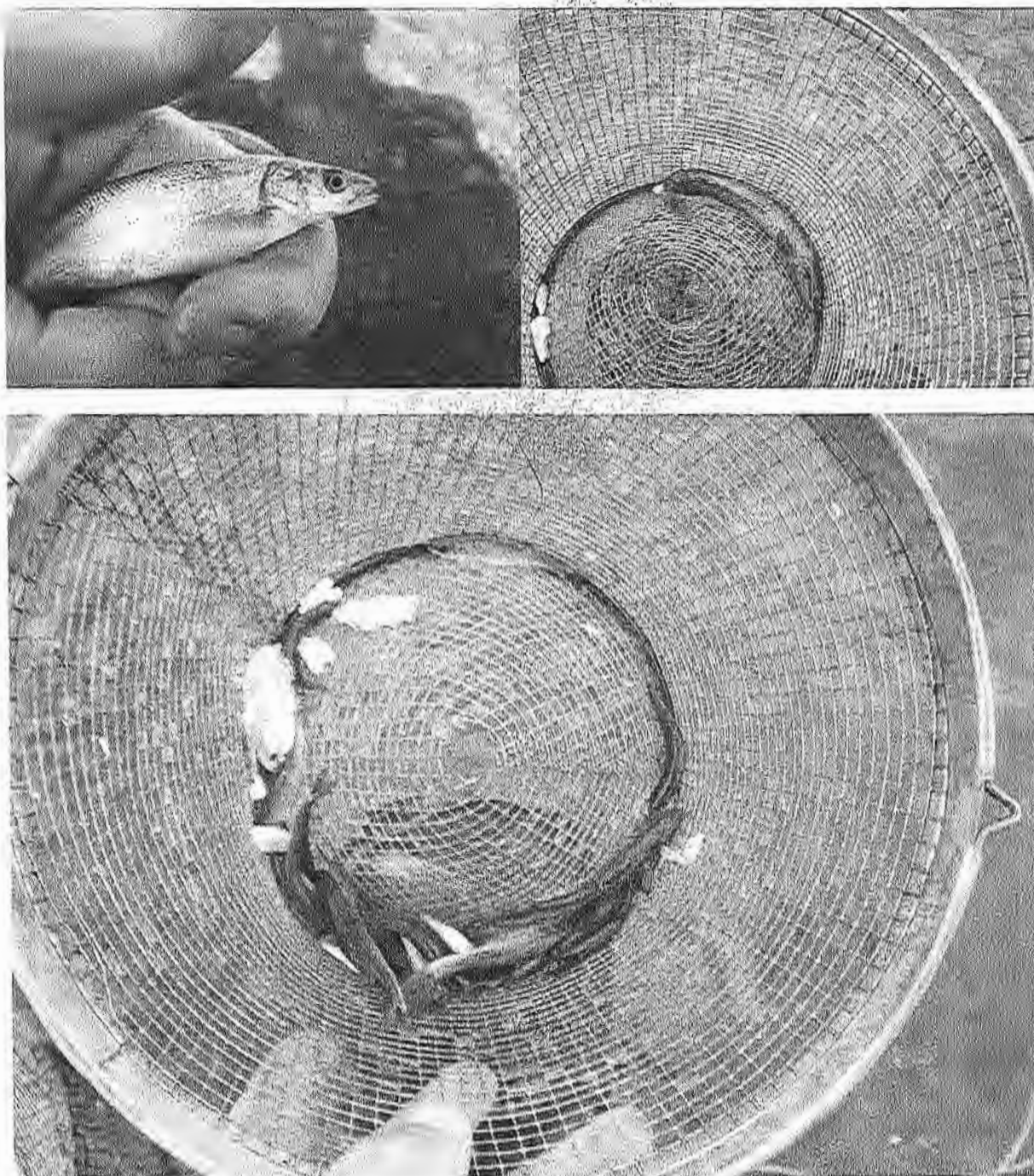


FIGURE 10: SOME OF THE FISH THAT WERE CAUGHT IN THE MINNOW TRAPS



Equipment inspection forms were completed for all of the excavators and the dozer. Nonetheless, during operational down time, the operator of the Hitachi Zaxis 250 button top noticed hydraulic oil leaking from a fitting on his machine. This was unexpected, as the machine had been recently serviced and had all its o-rings recently replaced. The dirt around the places where the oil had trickled down was collected and disposed in a labelled 'Contaminated Soil' drum. Rags from the machine's spill kit were used to clean the oil that was on the surface of the machine off, and the owner of the machine called a mechanic to come and repair the fitting.



FIGURE 11: RAG USED TO CLEAN UP OIL FROM MACHINE



FIGURE 12: ONLY SMALL DROPS OF HYDRAULIC OIL REACHED THE GROUND. THESE WERE SCOOPED INTO THE CONTAMINATED SOILS DRUM



FIGURE 13: CONTAMINATED SOILS DRUM

It must be noted that there were numerous sheens of oily substance present along the bank of the West Fraser log sort prior to the commencement of this ramp construction. One such sheen is shown in Figure 14.



FIGURE 14: PRE-EXISTING OIL SHEEN NEAR RAMP CONSTRUCTION SITE. THIS WAS NOT CAUSED DURING CURRENT CONSTRUCTION!

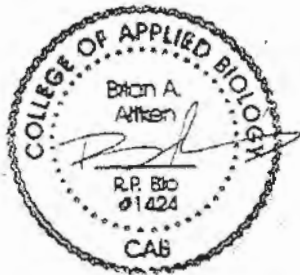
DWB Consulting Services Ltd.

ENGINEERING • ENVIRONMENTAL • FORESTRY • DRAFTING



Should you have any questions regarding this report, please do not hesitate to contact the undersigned at your convenience.

Sincerely,



Brian Aitken, RPBio, PAg, CPESC
Corporate Environmental Manager

Cc Penny Carpenter (Eaglecrest), Russel Gibson (Imperial Metals), Robin Hoffos (MFLNRO)
and Lee Williston (MFLNRO)

Stolar, Harold B FLNR:EX

From: XT:Carpenter, Penny FLNR:IN
Sent: Tuesday, September 23, 2014 7:19 AM
To: Weir, David J FLNR:EX
Subject: FW: Emailing: Addendum to Mount Polley Debris Clean Up in Quesnel Lake Sept 15th
Attachments: Addendum to Mount Polley Debris Clean Up in Quesnel Lake Sept 15th.pdf

Here is the changes to the original report by DWB.
Penny

-----Original Message-----

From: Brian Aitken [<mailto:baitken@dwbcconsulting.ca>]
Sent: September-21-14 7:13 PM
To: s.22
Subject: Emailing: Addendum to Mount Polley Debris Clean Up in Quesnel Lake Sept 15th

Email 2 of 2

Brian Aitken, RPBio, PAg, CPESC
Environmental Manager

DWB Consulting Services Ltd.
Office: (250) 562-5541
Cell: (250) 961-0043
Fax: (250) 562-5561
baitken@dwbcconsulting.ca



September 15, 2014

Ministry of Forests, Lands and Natural Resource Operations
Water Stewardship Cariboo Region
400-640 Borland Street
Williams Lake, BC, V2G 4T1

DWB File No 14274-219

Attention: David Weir, PAg – Water Section Head

RE: Addendum #1 and Inspection Report to Mount Polley Tailings Pond Failure Debris Clean-Up in Quesnel Lake

To date the wood debris clean up in Quesnel Lake has been proceeding in accordance with the initial plan submitted by DWB Consulting Services (DWB) on August 20th, 2014. In the clean-up plan there was a list of recommendations to assist in ensuring that environmental considerations were addressed. The following is a summary of those recommendations:

- It is recommended that the entire existing shoreline which was affected by debris accumulations be video recorded before and after the clean-up operations.
- All debris possible, both floating and rafted needs to be removed from Quesnel Lake by the end of October.
- All debris accumulation areas along the foreshore which are flat enough to allow access by light tracked equipment via barge and have been mapped and categorized as heavy or medium will be re-visited to determine beach conditions. Any area of beach that is soft and will lead to significant rutting by machinery will be flagged as 'Machine Free Zones'.
- Any debris accumulation areas along the foreshore that have been mapped and categorized as light or that are too steep for machinery will be removed by hand (no equipment permitted on the beach).
- Once material has been piled on the beach, it will be removed via barge and tug boat with an excavator. Once the beach has been fully cleared of debris, the excavator will prepare to leave the beach, ensuring that any significant ruts or beach disturbances have been fully recontoured to natural grade before re-boarding the barge. Where the beach has been determined to be too soft for machinery, the barge will nose into the shore and the ramp will be lowered to the foreshore.
- Mitchell Bay has been identified by MFLNRO as an area of special concern due to the presence of shore spawning kokanee. MFLNRO has identified a critical spawning period for kokanee starting mid-September in this area. All boating/barging activities along the near shore area in



Mitchell Bay need to be completed before this time period to ensure that spawning kokanee populations are not affected.

- While barging woody debris down the lake, all debris will be secured so that it does not fall back into the water. All floating woody debris that is temporarily contained in booms will be barged down the lake in a large boom.
- The debris removal around the mouth of Hazeltine Creek will require extensive works; however no works can proceed until the safety concerns at the upslope tailings dam at Mount Polley are addressed. It is recommended that a second log boom be constructed and left in place until at least next summer for added security during heavy rain events and spring runoff.
- Debris storage at the West Fraser load out will be contained fully within a secured boomed area and anchored to the existing dolphin piles until such time as it can be removed from the water. It is important to conduct a bottom survey before additional debris is stored at this location so that the pre-use condition is known.
- Throughout the debris collection, transport and removal process it is very important that all involved in the clean-up follow general spill prevention and response procedures should a spill be encountered.

DWB has conducted several site inspections during the clean-up effort and has confirmed that the aforementioned recommendations are being followed. The inspections by DWB confirmed the following:

- The entire affected shoreline was video recorded for future comparison
- The crews are working hard at trying to ensure that all floating debris will be removed by the end of October; however there have been safety delays around Hazeltine Creek
- Beach conditions have been mapped and identified where it is appropriate for heavy equipment to access
- Beaches where equipment access is not possible or will cause environmental damage have only been accessed by labour crews working by hand
- To date all woody material that has been collected has been removed by barge or tug, with a small amount scattered and placed above the HWM of the lake.
- All works have been completed at Mitchell Bay as the highest priority area due to potential spawning kokanee
- All debris has been secured during transport and there has been no reported loss of smaller debris during transport
- Works are well underway at Hazeltine Creek and will be dependent on safety concerns. Significant effort is being applied to the clean up of this area.



- All debris at the load out is contained and is being removed from the water using the constructed ramp and existing shoreline. There has been very little debris escapement from this area. The lake bottom has been video photographed before operations commenced so as to ensure that all debris is removed to pre-use conditions.
- There have been no reported spills to date on the project



Load load out (Aug 27, 2104)



Barge at load out (Aug 27, 2104)



Load load out (Aug 27, 2104)



Mitchell Bay (August 27, 2104)

Proposed Addendum to Initial Environmental Plan:

To date there has been no burning of any woody debris for this part of the project (although there has been verbal reports of some local burning on other parts of the lake) which is consistent with the environmental plan/procedures that was initially approved. Moving forward, it has been requested to

DWB Consulting Services Ltd.

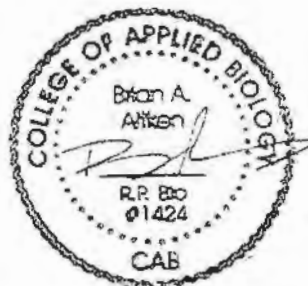
ENGINEERING ▲ ENVIRONMENTAL ▲ FORESTRY ▲ DRAFTING



burn some of the smaller, isolated wood piles. Now that the fire hazard has dropped, this is considered a viable alternative to transporting all the debris to the load out. In order to burn any pile over 1m in height; a valid fire burning permit must be acquired from the Regional District. Consideration must be given to the venting index on any given day and all burning piles must be closely monitored and be well back from the edge of the timbered shoreline. Burning should only be considered as a last option if the debris cannot be easily removed via tug or barge. All piles must be fully burned or unburnt debris will need to be removed from the foreshore area.

Should you have any questions regarding this report, please do not hesitate to contact the undersigned at your convenience.

Sincerely,



Brian Aitken, RPBio, PAg, CPESC
Corporate Environmental Manager

Cc Penny Carpenter (Eaglecrest), Russel Gibson (Imperial Metals), Robin Hoffos (MFLNRO)
and Lee Williston (MFLNRO)

Stolar, Harold B FLNR:EX

From: Weir, David J FLNR:EX
Sent: Thursday, October 9, 2014 8:45 AM
To: XT:Carpenter, Penny FLNR:IN
Cc: Williston, Lee X FLNR:EX; Stolar, Harold B FLNR:EX; Hoffos, Robin FLNR:EX; Bunce, Hubert ENV:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

Thank you, all we need to know is the Bay is done. I am very unlikely to comment on the operational details of the work unless I become aware of a public safety issue or if the clean up is being held up for some reason such as archaeology. My larger concern is that the existing debris is removed by the end of October and control measures are in place to prevent additional debris reaching the Likely Bridge during spring freshet. With winter conditions effective debris removal and control is likely to become very difficult.

Do you have Russ's email address? I want to talk to him about the progress of the sediment control works. I have to talk to MOE and Mines but it is likely that the next step for those works will be a water licence application for sediment control.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations Williams Lake, BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

-----Original Message-----

From: Penny Carpenter s.22
Sent: Wednesday, October 8, 2014 9:38 PM
To: Weir, David J FLNR:EX
Cc: Williston, Lee X FLNR:EX; Stolar, Harold B FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

Hi David, Lee and Harold

During our tour on the 29, I had told you that there were only 2 piles in Mitchel Bay. When I went to do the burning I found several small piles. I wanted to let you know that I did not try to mislead you in any way. As it turned out the last time I was there, there really were only two piles right in the bay and about 3 on the far point but.... the crew went back through one last time. The piled any small remaining debris after I was there and before our tour.

All these small piles are burnt and the Bay is 100% done.
Thanks Penny

-----Original Message-----

From: Weir, David FLNR:EX [mailto:David.J.Weir@gov.bc.ca]
Sent: September-30-14 4:36 PM
To: XT:Carpenter, Penny FLNR:IN
Cc: Stolar, Harold B FLNR:EX; Fenwick, Leigh-Ann ENV:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

As per the trip discussions the outcome is that the debris be removed prior to the shorespawning at that site. The method is as per your Professional in this case the RP Bio.

On a side note Worksafe BC has requested information about who Imperial Metals, as owner of the works, will be designating as Primary contractors on the worksites outside the mine and we would also like to know so we can be able to contact them when doing site visits?

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

-----Original Message-----

From: Penny Carpenter s.22
Sent: Tuesday, September 30, 2014 4:08 PM
To: Weir, David J FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

Hi David

Ok thank you for clarification.

I went there yesterday after the tour and told him that we planned to burn the small piles as soon as possible. He asked us to give him some time to go through them and pick out what he wanted. He was doing that today. Weather permitting they will be burnt tomorrow.

Thanks Penny

-----Original Message-----

From: Weir, David J FLNR:EX [mailto:David.J.Weir@gov.bc.ca]
Sent: September-30-14 1:37 PM
To: XT:Carpenter, Penny FLNR:IN
Cc: Williston, Lee X FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

I was speaking to the small piles that are left at the site as we discussed. You were going to discuss the matter with the upland owner.

David Weir
Water Section Head,

Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

-----Original Message-----

From: Penny Carpenter s.22
Sent: Tuesday, September 30, 2014 1:01 PM
To: Weir, David J FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

Hi David

When you mention the kokanee shore spawning area should progress first... I was under the impression that Lee considered Mitchel Bay 100% done as only a few small piles remained that were being burnt by hand and would have no impact on the spawning. There will not be any further work in Mitchel bay by boat or machine so it should be considered complete prior to the deadline of Oct 1. I did not know of any other shoreline that was considered a spawning area for Kokanee that we have not already cleaned out other than Hazeltine. Please let me know if I misunderstood Lee when he considered the spawning area 100% complete.

Penny

-----Original Message-----

From: Weir, David J FLNR:EX [mailto:David.J.Weir@gov.bc.ca]
Sent: September-30-14 8:46 AM
To: Henley, Margaret TRAN:EX; XT:Carpenter, Penny FLNR:IN; Williston, Lee X FLNR:EX; Stolar, Harold B FLNR:EX; 'rbastien@cariboord.bc.ca'; Fenwick, Leigh-Ann ENV:EX; Bunce, Hubert ENV:EX
Cc: Vanderburgh, Ken FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

We completed the boat review on Quesnel Lake and visited the sediment pond site on Hazeltine. We understand that efforts will continue at the mouth of Hazeltine to remove debris for one more week, and then efforts will shift to the removal of contained debris on the lake and shore. A shoreline slope at the mouth of Hazeltine will be resloped and stabilized as per RP Bio prescription.

I apologise to Russ as I don't have his email address handy to copy him on this email.

I remained concerned about the progress of the work but recognize the logistical limitations on the operation. The clean up at the mouth of Hazeltine appears to be going well but at the expense of the debris removal for the rest of the lake but overall the debris is contained as per the order the logistics of the removal are best left to the company although those sites that may have Kokanee shore spawning should progress first.

There a significant amount of debris remains as does the risk to the Likely bridge. I am concerned that the construction of the sediment ponds on Hazeltine appear to be one week behind what should be expected but I think that the delay

is reasonably justified to achieve due diligence with respect to any potential Archeological resources. It is just as important to confirm the absence of resources as it is to discover their presence. My larger concern was that the resources have developed access to the site before winter conditions reduced the effectiveness of field reconnaissance and design. My understanding from talking to Russ is that the lake draw down continues and is about 50% complete but as per the order the lake level is being maintained at a level that maintains the stability of the plug.

I will have another look near the end of October by vehicle and I will need to visit the Polley lake site at that time.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Henley, Margaret TRAN:EX
Sent: Friday, September 26, 2014 4:24 PM
To: Weir, David J FLNR:EX
Cc: XT:Carpenter, Penny FLNR:IN; Williston, Lee X FLNR:EX; Stolar, Harold B FLNR:EX
Subject: Re: Mount Polley Update on Quesnel Lake Clean up

Okay I will bring Rowena and we will meet you at the boat launch area at Cedar Creek in Likely?

Sent from Margie's iPhone

On Sep 26, 2014, at 4:20 PM, "Weir, David J FLNR:EX"
<David.J.Weir@gov.bc.ca<mailto:David.J.Weir@gov.bc.ca>> wrote:
We should be up at cedar point about 10:30?

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC
David.J.Weir@gov.bc.ca<mailto:David.J.Weir@gov.bc.ca>
(250) 398 4924
Cell 250 267-5925

From: Williston, Lee X FLNR:EX
Sent: Wednesday, September 24, 2014 8:39 AM
To: Stolar, Harold B FLNR:EX
Cc: Weir, David J FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

s.22

out front at 830.

I'll just meet you guys in the parking lot

From: Stolar, Harold B FLNR:EX
Sent: Wednesday, September 24, 2014 8:37 AM
To: Williston, Lee X FLNR:EX
Cc: Weir, David J FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

Lee, I will be coming with you and David. What time will we be leaving the office?

Inspiring Stewardship through Respectful Conversation Harold

From: Weir, David J FLNR:EX
Sent: Wednesday, September 24, 2014 8:16 AM
To: Henley, Margaret TRAN:EX; Stolar, Harold B FLNR:EX; Bunce, Hubert ENV:EX; Hoffos, Robin FLNR:EX; Fenwick, Leigh-Ann ENV:EX; XT:Carpenter, Penny FLNR:IN
Cc: Williston, Lee X FLNR:EX
Subject: FW: Mount Polley Update on Quesnel Lake Clean up

I will travel with Lee from Williams Lake and I suspect Harold will come with us. For those who are coming please coordinate with Lee. I will not be available until late Friday. Penny, could you please coordinate the safety issue with Dale?

See you on Monday.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC
David.J.Weir@gov.bc.ca<mailto:David.J.Weir@gov.bc.ca>
(250) 398 4924
Cell 250 267-5925

From: Williston, Lee X FLNR:EX
Sent: Tuesday, September 23, 2014 8:36 AM
To: Weir, David J FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

Hey Dave,

The boat is already at Quesnel Lake. It is moored at Elysia Resort. We will have drive out there to get it. I can either go and pick you up at Likely or you can come with me. It's about a 45 minute boat ride from Elysia to Hazeltine Creek area.

From: Weir, David J FLNR:EX
Sent: Tuesday, September 23, 2014 8:13 AM
To: Dean, Sharon GCPE:EX; Fenwick, Leigh-Ann ENV:EX; Hoffos, Robin FLNR:EX; Henley, Margaret TRAN:EX; Bunce, Hubert ENV:EX; Stolar, Harold B FLNR:EX
Cc: Williston, Lee X FLNR:EX; XT:Carpenter, Penny FLNR:IN

Subject: Mount Polley Update on Quesnel Lake Clean up

Please find the attached information for the record and in preparation for the boat trip on Sep 29th 2014.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC
David.J.Weir@gov.bc.ca<mailto:David.J.Weir@gov.bc.ca>
(250) 398 4924
Cell 250 267-5925

From: [Skakun, Tracy FLNR:EX](#)
To: [Sapp, Janice FLNR:EX](#)
Subject: FOI REQUEST: Mount Polley - APPROVED S25857 Special Use Permit Document
Date: Friday, November 14, 2014 10:04:42 AM
Attachments: [S25857 Mount Polley Special Use Permit document.pdf](#)
[Notice of Commencement - July 2014.pdf](#)

Tracy

From: Skakun, Tracy FLNR:EX
Sent: Friday, October 10, 2014 3:59 PM
To: 'dreimer@mountpolley.com'
Cc: Stolar, Harold B FLNR:EX; Wood, Lindsey FLNR:EX; Lanki, Ian FLNR:IN
Subject: Mount Polley - APPROVED S25857 Special Use Permit Document

Good Afternoon Dale,

Mount Polley Mining Corporation's Special Use Permit (S25857) has been approved. Your copy of the permit document is attached for your records.

A Notice of Commencement form is also attached and to be submitted when harvesting operations begin.

A paper copy of this permit will be forwarded in the mail for your files.

If you have any questions, please do not hesitate to contact me at any time.

Have a great day!

Tracy Skakun

Resource and Contract Administrator
Cariboo-Chilcotin Forest District
Ph (250)398-4369





File: 19570-25/S25857

September 30, 2014

Mount Polley Mining Corporation
P.O. Box 12
Likely, British Columbia
V0L 1N0

Dear Licensee:

Enclosed is your completed copy of Special Use Permit S25857, issued for the purpose of stockpile of rehabilitation material, in the location shown on the attached Exhibit A map. Be advised that this permit expires on **September 30, 2016**.

If you have any questions regarding your proposed operations or the conditions contained in this permit, please contact Lindsey Wood, Tenures Officer at (250) 398-4689.

This letter forms an integral part of Special Use Permit S25857 and should be attached to it.

Yours truly,

Michael C. Pedersen, R.P.F.
District Manager

pc: Area Assessor - Assessment District #24 - 727 (Prince George)
c/o B.C. Assessment Authority, 202 - 350 Barnard Street
Williams Lake, B.C. V2G 4T9



**SPECIAL USE PERMIT
S25857**

**Ministry of
Forest Lands
and Natural
Resource
Operations**

THIS PERMIT, dated for reference September 30, 2014 is issued to:

MOUNT POLLEY MINING CORPORATION
P.O. BOX 12
LIKELY, BRITISH COLUMBIA
V0L 1N0
Phone: (250) 790-2215 Fax: (250) 790-2268
(the "Permittee")

WHEREAS:

- A. The Permittee wishes to use or manage a portion of Crown land for the purposes detailed in paragraph 1.01 of this Permit, and has not been authorized under any other enactment to use the land.
- B. The Permittee made application on **September 10, 2014** in accordance with section 8 of the Provincial Forest Use Regulation of the *Forest Practices Code of British Columbia Act*, and has submitted a plan that sets out how the land will be used, including identification of the following proposed activities which are listed in Schedule 2 of the Contaminated Sites Regulation under the *Environmental Management Act*: None

1.00 GRANT OF RIGHTS AND TERM

- 1.01 Subject to this Permit and the Acts, regulations, and standards referred to in paragraph 6.01, the Permittee may use the Crown land designated on the attached Exhibit "A" map(s) (the "permit area") for the purpose of:

stock pile of rehabilitation material

in accordance with the plan submitted with the application for this Permit and attached as Schedule A.

- 1.02 The term of this Permit is **2 years** beginning on **October 1, 2014**, with usage rights restricted by paragraph 1.05 during the last year of the term.

- 1.03 Between 18 months and one year before the expiry of the permit, or at another time if acceptable to the District Manager, the Permittee may apply for a replacement Permit or for an extension to the existing Permit, to take effect up to 12 months prior to the expiry of this Permit.
- 1.04 The District Manager may request from the Permittee a response regarding the Permittee's intention to request a replacement Permit or extension for this Permit, and in the case of this request, the Permittee must respond within 30 days.
- 1.05 For the twelve months prior to the expiry of the Permit, use of the Permit area is restricted to activities required to fulfill cleanup provisions of this Permit, any *Environmental Management Act* requirements related to the Permittee's use of the Permit area, and any other activities approved by the District Manager.

2.00 CONDITIONS AND REQUIREMENTS

- 2.01 The Permittee must carry out all activities in accordance with this permit, the Acts, regulations and standards referred to in paragraph 6.01, the plan attached as Schedule A, the *Environmental Management Act* and its regulations, and any other applicable legislative requirements.
- 2.02 Upon termination or cancellation of this Permit:
 - (a) title to all improvements that are fixed to the Crown land under this Permit, shall vest in the Crown without compensation to the Permittee; and
 - (b) the Permittee must not remove any improvements unless authorized to do so by the District Manager.
- 2.03 This Permit will enure to the benefit of, and be binding on, the parties and their respective heirs, executors, successors and permitted assigns.
- 2.04 Any power conferred or duty imposed on the District Manager under this Permit may be exercised or fulfilled by any person authorized to do so by the District Manager.
- 2.05 This Permit does not grant the Permittee exclusive rights to the permit area and the Permittee's rights under this Permit are subject to any other rights of use and occupation that have been granted by the Crown over the permit area.
- 2.06 The Crown reserves the right to grant future rights of use and occupation to other parties over the permit area.

2.07 With reference to section 9 (2) of the Provincial Forest Use Regulation, the following terms and conditions apply to the building of and disposal of any chattel or fixture:

- (a) these sites can only be used temporarily for the storage of rehabilitation material to address rehabilitation works associated with tailings pond dam breach.

2.08 The Schedules to this Permit are deemed to be part of this Permit.

3.00 CONSERVATION OF FOREST RESOURCES AND NATURAL ENVIRONMENT

3.01 Within one week of submitting a site profile, site investigation or any other document or report required under the *Environmental Management Act*, or receiving any order issued under municipal, provincial or federal legislation which relate to the Permittee's use of the Permit area, the Permittee must provide a copy to the District Manager.

3.02 The Permittee will fulfil the requirements of any order issued under municipal, provincial or federal legislation which relate to the Permittee's use of the Permit area, regardless whether the order was directed to the Permittee, to someone authorized by the Permittee to use the Permit area, or to the Ministry of Forests, Lands and Natural Resource Operations.

3.03 Unless the Permit is replaced or extended, the Permittee must complete the clean up and restoration of the Permit area in accordance with Permit provisions at least six months prior to the expiry of the Permit, or if the Permit is under suspension, by a date specified by the District Manager.

3.04 Subject to paragraph 3.05, clean up and restoration of the Permit area must include the following actions, which are deemed necessary to make the Permit area suitable for future use as productive forest:

- (a) remove all chattels, including equipment and other personal property from the Permit area;
- (b) remove from the Permit area or dispose in accordance with this Part any litter, scrap metal, wire rope, tires, refuse and similar material;
- (c) remove buildings, fuel tanks and other fixtures;
- (d) remove all safety hazards;
- (e) remove all drainage structures, recontour the site and re-vegetate exposed soils with local plant species,
- (f) comply with other clean up requirements specified in this Part; and
- (g) restore the Permit area as specified in this Part or the plan attached as Schedule A to this Permit.

- 3.05 The District Manager may grant partial relief from paragraph 3.04 to allow specific chattels or fixtures to be left on the Permit area.

4.00 ANNUAL RENT

- 4.01 In addition to money payable by the Permittee under the *Forest Act* and the *Forest Practices Code of British Columbia Act* and regulations made under them, the Permittee will pay to the Crown, immediately upon receipt of a statement issued on behalf of the Crown, annual rent in the amount of:

- (a) **\$200.00** for the first year; and
- (b) for ensuing years, an amount determined by the District Manager.

5.00 DEPOSIT

- 5.01 In addition to any money payable by the Permittee under the Acts or regulations referred to in paragraph 6.01, or the money referred to in paragraph 4.01, the Permittee must maintain a deposit in the amount of **\$0.00** in the form of a security acceptable to the District Manager, before using the land as specified in paragraph 1.01.

- 5.02 The District Manager may use any or all of the deposit referred to in paragraph 5.01:

- (a) to satisfy a claim made by the owner of personal property, other than the Permittee or the Province, who has property situated on the permit area; or
- (b) to cover the costs resulting from a failure of the Permittee to meet the conditions of this Permit.

- 5.03 The District Manager, after at least four week's notice to the Permittee, may take from the deposit referred to in 5.01 an amount sufficient to cover costs incurred by the District Manager in remedying the Permittee's failure to meet the conditions of this Permit, or

an amount equal to the District Manager's estimate of the costs which the District Manager could reasonably expect to incur in remedying the Permittee's failure to meet the conditions of this Permit, and for that purpose a security included in the deposit may be realized.

- 5.04 A notice referred to in paragraph 5.03 must specify:

- (a) the condition of this Permit which the Permittee failed to meet; and
- (b) the amount the District Manager intends to take from the deposit.

5.05 If the District Manager gives the Permittee a notice that an amount has been taken under this part from the deposit, the Permittee within four weeks of the date from which the notice is given, must add to the deposit, in a form acceptable to the District Manager, an amount sufficient to replenish the deposit to the amount specified in paragraph 5.01.

5.06 Subject to paragraphs 5.03, 5.04 and 5.05, if:

- (a) the District Manager, under paragraph 5.03, takes from the deposit an amount equal to the District Manager's estimate of the costs which the District Manager could reasonably expect to incur in remedying the Permittee's failure to meet the conditions of this Permit; and
- (b) the costs incurred by the District Manager in remedying the Permittee's failure to meet the conditions of this Permit are less than the amount taken from the deposit;

the Crown will as soon as feasible return to the Permittee an amount equal to the difference between the amount taken from the deposit and the costs incurred by the District Manager.

5.07 If:

- (a) the District Manager, under paragraph 5.03, takes from the deposit an amount equal to the District Manager's estimate of the costs which the District Manager could reasonably expect to incur in remedying the Permittee's failure to meet a condition of this Permit; and
- (b) the costs incurred by the District Manager in remedying the Permittee's failure to meet a condition of this Permit are greater than the amount taken from the deposit;

the District Manager may take from the deposit an additional amount equal to the difference between the costs incurred by the District Manager and the amount originally taken from the deposit, and for that purpose a security included in the deposit may be realized.

5.08 Subject to the *Forest Practices Code of British Columbia Act* and the regulations made under that Act, the Crown will return to the Permittee the deposit, less deductions made under paragraphs 5.03 and 5.07, when:

- (a) this Permit expires, or is surrendered; and
- (b) the District Manager is satisfied that the Permittee has fulfilled all obligations under or in respect of this Permit.

- 5.09 Amounts taken under part 5.00 from the deposit are in addition to and not in substitution for any other remedies available to the Crown in respect of a default of the Permittee.

6.00 LEGISLATIVE FRAMEWORK

- 6.01 This Permit is subject to:

- (a) the *Forest Act*;
- (b) the *Forest Practices Code of British Columbia Act*;
- (c) the *Forest and Range Practices Act*;
- (d) the *Wildfire Act*; and
- (e) the regulations and standards made under those Acts.

- 6.02 The Permittee must:

- (a) comply with the the Acts, regulations and standards referred to in paragraph 6.01
- (b) ensure that its employees, agents and contractors comply with these Acts, regulations and standards when engaging in or carrying out activities or operations under or associated with this Permit.

- 6.03 Nothing in this Permit is to be construed as authorizing the Permittee to engage in any activities or carry out any operations otherwise than in accordance with the requirements of the Acts, regulations and standards referred to in paragraph 6.01.

7.00 NOTICE

- 7.01 A notice given under this Permit must be in writing.

- 7.02 A notice given under this Permit may be:

- (a) delivered by hand;
- (b) sent by mail;
- (c) email address, or
- (d) subject to paragraph 7.05, sent by facsimile transmission;

to the address, email address or facsimile number, as applicable, specified on the first page of this Permit, or to such other address, email address or facsimile number as is specified in a notice given in accordance with this part.

- 7.03 If a notice is given under this Permit, it is deemed to have been given:
- (a) if it is given in accordance with subparagraph 7.02 (a), on the date it is delivered by hand;
 - (b) if it is given in accordance with subparagraph 7.02 (b), subject to paragraph 7.04, on the eighth day after its deposit in a Canada Post Office at any place in Canada;
 - (c) if it is given in accordance with subparagraph 7.02 (c), subject to paragraph 16.05, on the date it is sent by email;
 - (d) if it is given in accordance with subparagraph 7.02 (d), subject to paragraph 7.05, on the date it is sent by facsimile transmission.
- 7.04 If, between the times a notice is mailed in accordance with subparagraph 7.02 (b) and the time it is actually received, there occurs a postal strike, lockout or slowdown that might reasonably affect delivery of the notice, the notice is not deemed to be given until the party actually receives it.
- 7.05 If a notice is sent by email or facsimile transmission, the party sending the notice must take reasonable steps to ensure that the transmission has been successfully completed.
- 7.06 Either party may, from time to time, advise the other party by notice in writing, of any change of address, email address or facsimile number of the party giving such notice and, from and after the giving of such notice, the address, email address or facsimile number specified will, for purposes of this Licence, be considered to be the address, email address or facsimile number of the party giving such notice.

8.00 LIABILITY AND INDEMNITY

- 8.01 Subject to Paragraph 8.04, the Permittee will indemnify the Crown against and save it harmless from all claims, demands, suits, actions, causes of action, costs, expenses and losses faced, incurred or suffered by the Crown as a result, directly or indirectly, of any act or omission of:
- (a) the Permittee;
 - (b) an employee of the Permittee;
 - (c) an agent of the Permittee;
 - (d) a contractor of the Permittee who engages in any activity or carries out any operation, including but not restricted to the Permittee's operations, under or associated with this Permit; or
 - (e) any other person who on behalf of or with the consent of the Permittee engages in any activity or carries out any operation, including but not restricted to the Permittee's operations, under or associated with this Permit.
- 8.02 For greater certainty, the Permittee has no obligation to indemnify the Crown under Paragraph 8.01 in respect of any act or omission of:

- (a) an employee, agent or contractor of the Crown, in the course of carrying out his or her duties as employee, agent or contractor of the Crown; or
 - (b) a person, other than the Permittee, to whom the Crown has granted the right to use or occupy Crown land.
- 8.03 The Crown is not liable to the Permittee for injuries, losses, expenses, or costs incurred or suffered by the Permittee as a result, directly or indirectly, of an act or omission of a person who is not a party to this Permit, including but not restricted to an act or omission of a person disrupting, stopping or otherwise interfering with the Permittee's operations under this Permit by road blocks or other means.
- 8.04 Paragraph 8.01 does not apply to an act or omission which is a direct response to, and complies with, an order made by a Ministry employee or another officer of the Crown.
- 8.05 Amounts taken under Part 5.00 from the deposit and payments required further to the indemnity referred to in Paragraph 8.01, are in addition to and not in substitution for any other remedies available to the Crown in respect of a default of the Permittee.

9.00 INTERPRETATION

- 9.01 In this Permit, unless the context otherwise requires:
- (a) "*Forest Act*" means the *Forest Act*, R.S.B.C. 1996, c. 157, as amended from time to time, or the successor to this Act, if it is repealed;
 - (b) "*Forest and Range Practices Act*" means the *Forest and Range Practices Act*, S.B.C. 2002, c. 69 as amended from time to time, or the successor to this Act, if it is repealed;
 - (c) "*Forest Practices Code of British Columbia Act*" means the *Forest Practices Code of British Columbia Act*, R.S.B.C. 1996, c. 159, as amended from time to time, or the successor to this Act, if it is repealed;
 - (d) "Permit area" means the area of Crown land that pertains to this permit as described by Exhibit "A" to this Permit
 - (e) *Wildfire Act* means: the *Wildfire Act*, S.B.C. 2004, c. 24, as amended from time to time, or the successor to this Act, if it is repealed; and
- 9.02 Unless otherwise provided in paragraph 9.01, if a word or phrase used in this Permit is defined in the *Forest Act*, *Forest Practices Code of British Columbia Act* or the *Forest and Range Practices Act*, the definition in the Act applies to this Permit, and where the word or phrase in the Act is replaced by a new word or phrase, this Permit is deemed to have been amended accordingly.
- 9.03 In this Permit, unless the context otherwise requires:
- (a) the singular includes the plural and the plural includes the singular; and

(b) the masculine, the feminine and the neuter are interchangeable.

9.04 This Permit is divided into parts, paragraphs, subparagraphs, clauses and subclauses, illustrated as follows:

1.00 part;

1.01 paragraph;

(a) subparagraph;

(i) clause;

(a) subclause;

and a reference to a subparagraph, clause or subclause is to be construed as a reference to a subparagraph, clause or subclause of the paragraph, subparagraph or clause, as the case may be, in which the reference occurs.

DATED

October 10, 2014

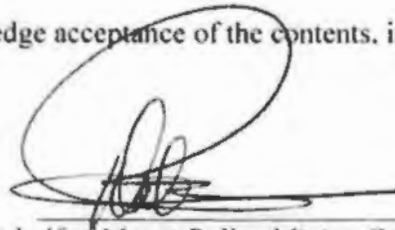


Michael C. Pedersen, R.P.F.
District Manager
Cariboo-Chilcotin Forest District

By signing this Permit, I acknowledge acceptance of the contents, including all requirements and conditions.

DATED

October 1/14



on behalf of Mount Polley Mining Corporation

DALE REIMER

Print Name

SCHEDULE "A"

1.00 PLAN

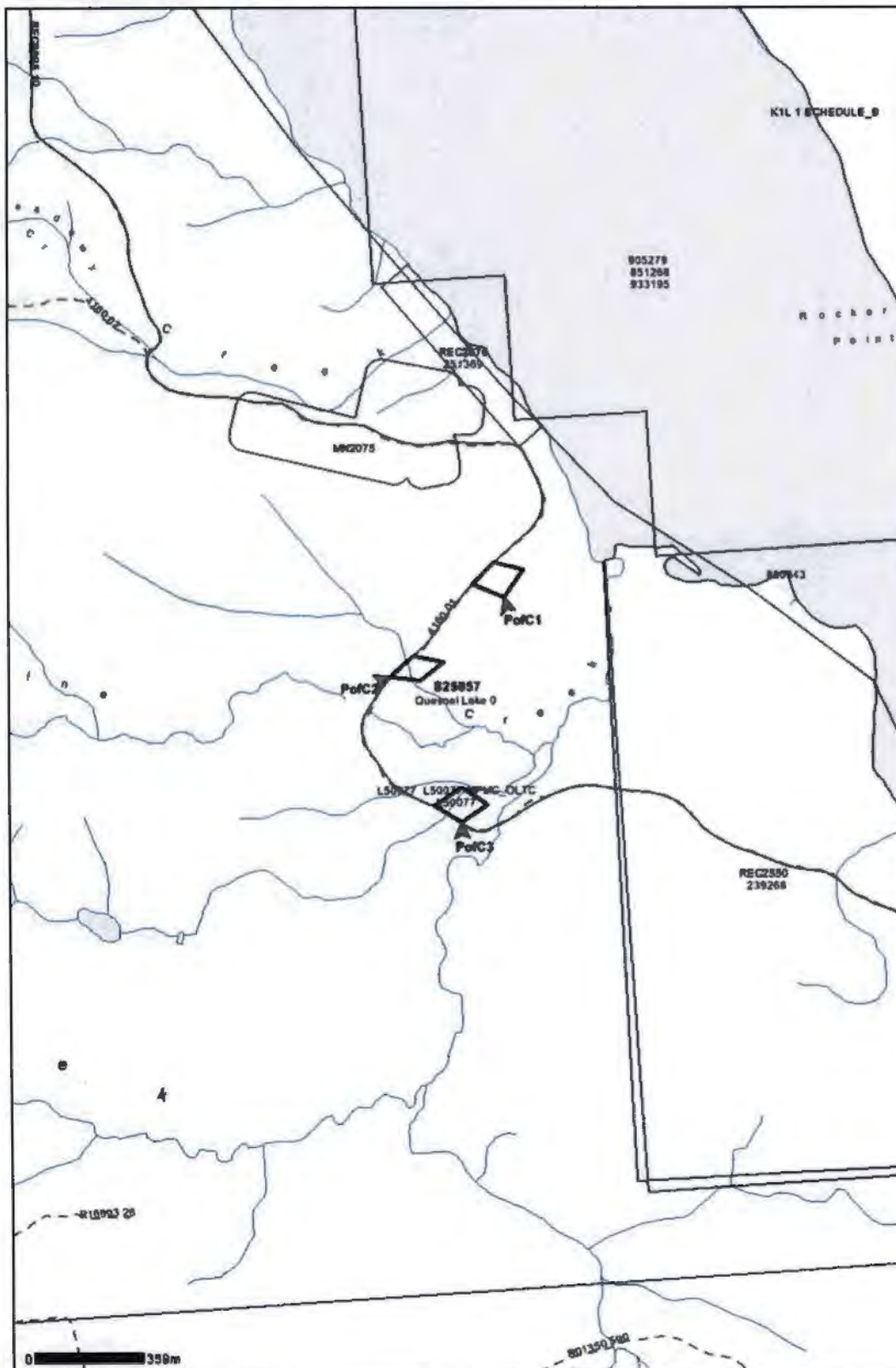
To establish three staging areas where materials may be stockpiled for use in the rehabilitation of Hazeltine Creek.

Areas will be cleaned up and restored when the works are completed.

SCHEDULE B

OTHER CONDITIONS AND REQUIREMENTS

- 1.02 The Crown reserves the right to revise the conditions of this Permit during the life of the Permit in accordance with existing conditions and development.
- 1.03 With reference to Section 9(2) of the Provincial Forest Use Regulation, the following terms and conditions apply to the clean up and restoration of the land under the Permit:
- to the satisfaction of the District Manager on the expiry of the Permit.



Legend

	Tenure Application
	Tenure Road Application
	Retired Tenure Road
	P of C
	P of T
	Tenure Feature
	Range
	TFL
	Provincial Forest
	Forest Service Road
	Highway
	Municipal Road
	Non Status Road
	Recreation Trails
	Road Permit
	SUP Road
	Right of Way
	Schedule B CP Road
	Mineral Tenure Points
	Cities
	Waterbodies
	River/Stream
	Coastline / Island

S25857 (2,669 Ha)
 PolC1 UTM10 601236, 5817592
 PolC2 UTM10 600858, 5817354
 PolC3 UTM10 601066, 5816879

Stolar, Harold B FLNR:EX

From: Weir, David J FLNR:EX
Sent: Monday, October 20, 2014 12:22 PM
To: Stolar, Harold B FLNR:EX; Bunce, Hubert ENV:EX
Cc: Fenwick, Leigh-Ann ENV:EX
Subject: FW: Mount Polley Prime Contractor issue.

fyi

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake, BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Clarke, Bruce [<mailto:Bruce.Clarke@worksafebc.com>]
Sent: Monday, October 20, 2014 8:30 AM
To: Pocklington, Cheryl M MEM:EX; Weir, David J FLNR:EX
Subject: FW: Mount Polley Prime Contractor issue.

Cheryl and David, FYI. We will be dealing with the Mine as an owner of the site (with the most knowledge and control) both on and off the mine property which will make them also responsible for all Prime Contractor requirements. Please give me a shout if you have any questions.

Bruce

From: McCaskill, Darrin
Sent: Saturday, October 18, 2014 10:35 AM
To: Clarke, Bruce
Cc: McCaskill, Jim
Subject: Mount Polley Prime Contractor issue.

Bruce,

I had a chance to discuss the issue of Prime Contractor for the Mount Polley remediation work with Tom Brocklehurst. We also reviewed the order that was issued by the Ministry of Lands and Environment on Imperial Metals.

s.13,s.16

Section 106 of the Act defines "owner" very broadly, and permits there being more than one owner of lands and premises being used as a workplace. The definition includes the "agent or delegate" of the owner, or an "occupier". It seems reasonable, based on the Order that was issued to Imperial Metals by the Ministry, to consider Imperial Metals an "occupier". "Occupier" is defined in the *Occupiers' Liability*

Act as: a person who "is in physical possession of premises or ... has responsibility for, and control over, the condition of premises, the activities conducted on those premises and the persons allowed to enter those premises". As Imperial Metals has control over the activities conducted on the premises, as required by the Order, it is an "occupier", and therefore an "owner".

Both the Crown and Imperial Metals are owners of the workplace. Policy D3-119-1 deals with multiple owner situations, and provides factors to apply in determining which owner has what OHS obligations. Those factors are knowledge of and control over the work being carried out. Applying those factors it is most appropriate that Imperial Metals be considered the owner that will have the prime contractor obligation if none is designated, as they have the most knowledge of and control over the work being performed.

This should provide you with the information you require to get back to the Ministry of Mines (Cheryle Pocklington) and your contact in the Ministry of Lands and Environment if further follow up is required with that Ministry. This should also position you to confirm with Imperial Metals that we are designating them as the prime and to ensure that Imperial Metals submits any required NOPs acknowledging that they are the prime. s.13,s.16

s.13,s.16

Darrin

Darrin McCaskill
Assistant Director
Prevention Operations
WorkSafeBC
(604)-279-7563





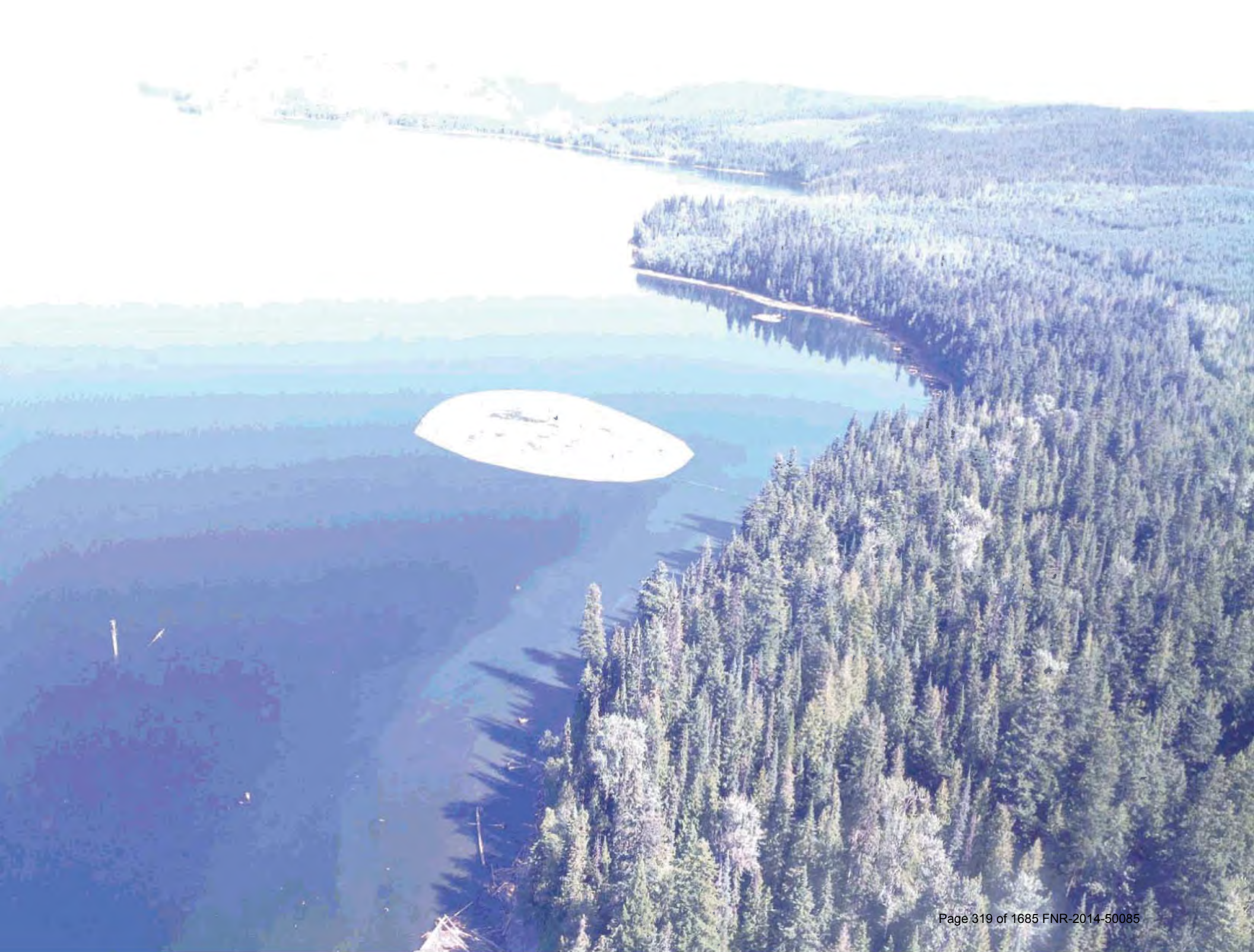


























































Whole file
can be sent.
HBSAR

Home Location: FLNR ROSA Cariboo Chilcotin District (DCC & DCH)
SO+02Y 20Y FR DRAFT
Date Opened: 2014-08-01 Content Start:
Date Closed: Content End:
SO Date:
Owner: FLNR ROSA Cariboo Chilcotin District (DCC & DCH)

MOUNT POLLEY MINING CORPORATION

1
9
5
4
5
2
5
A
9
2
7
6
0



FORESTRY LICENCE TO CUT

A92760

Ministry of
Forest Lands
and Natural
Resource
Operations

THIS LICENCE, dated for reference August 20, 2014.

BETWEEN:

HER MAJESTY THE QUEEN IN RIGHT
OF THE PROVINCE OF BRITISH COLUMBIA,
as represented by THE DISTRICT MANAGER, of the
MINISTRY OF FORESTS, LANDS AND
NATURAL RESOURCE OPERATIONS
CARIBOO-CHILCOTIN FOREST DISTRICT
200 640 BORLAND STREET
WILLIAMS LAKE, BRITISH COLUMBIA
V2G 4T1
Phone: (250) 398-4345 Fax: (250) 398-4790

(the "(District Manager)")

AND:

MOUNT POLLEY MINING CORPORATION
P.O. BOX 12
LIKELY, BRITISH COLUMBIA
V0L 1N0
Phone: (250) 790-2215 Fax: (250) 790-2268

(the "Licensee")

WHEREAS:

This Forestry Licence to Cut is entered into pursuant to section 47.6 (2.11) of the *Forest Act* to collect, boom and transport Crown timber and log debris resulting from the tailings pond breach at the Mount Polley mine site on August 4, 2014, to the West Fraser reload at Beach Point. This licence is contingent on the licensee having an agreement with West Fraser Mills Ltd. on the use of their reload.

"The Table of Contents and headings in this Licence are included for convenience only and do not form a part of this Licence and in no way define, limit, alter or enlarge the scope or meaning of any provision of this Licence."

TABLE OF CONTENTS

1.00	GRANT OF RIGHTS AND TERM	3
2.00	TIMBER VOLUME CHARGED TO THE LICENCE.....	3
3.00	TIMBER MARK	3
4.00	COURT DETERMINED ABORIGINAL RIGHTS AND/OR TITLE.....	3
5.00	FINANCIAL AND DEPOSITS	4
6.00	LIABILITY & INDEMNITY.....	5
7.00	TERMINATION	5
8.00	WAIVER	6
9.00	NOTICE.....	6
10.00	MISCELLANEOUS	7
11.00	INTERPRETATION & DEFINITIONS	9
	SCHEDULE "A"	11

THE PARTIES agree as follows:

1.00 GRANT OF RIGHTS AND TERM

- 1.01 The term of this Licence begins on **August 20, 2014** and expires on the earlier of **August 19, 2016**, or when the Regional Executive Director or District Manager gives notice to the Licensee that all contractual and legislative obligations associated with this Licence have been completed.
- 1.02 Subject to this Licence and the forestry legislation; the Licensee is **authorized to remove and process the Crown timber from portions of Quesnel Lake, including Cedar Point, to the West Fraser reload at Beach Point (the "Licence area"), as shown on the attached Exhibit "A" map.**
- 1.03 Subject to this Licence, the Licensee has the right to enter and use Crown land to exercise rights and fulfil obligations under this Licence.
- 1.04 This Licence is not replaceable under the *Forest Act*.

2.00 TIMBER VOLUME CHARGED TO THE LICENCE

- 2.01 There is no maximum volume limit for this licence.

3.00 TIMBER MARK

- 3.01 The timber mark for timber harvested under this Licence is:

92
760

- 3.02 All timber removed from the licence area must be marked in accordance with the *Forest Act* and the timber marking and transportation regulation.

4.00 COURT DETERMINED ABORIGINAL RIGHTS AND/OR TITLE

- 4.01 Notwithstanding any other provision of this Licence, if a court of competent jurisdiction:
 - (a) determines that activities or operations under or associated with this Licence will unjustifiably infringe an aboriginal right and/or title, or treaty right;
 - (b) grants an injunction further to a determination referred to in subparagraph 4.01 (a); or

- (c) grants an injunction pending a determination of whether activities or operations under or associated with this Licence will unjustifiably infringe an aboriginal right and/or title, or treaty right;

the Regional Executive Director or District Manager in a notice given to the Licensee, may vary or suspend, this Licence in whole or in part, so as to be consistent with the court determination.

4.02 Subject to this Licence and the forestry legislation, if:

- (a) under paragraph 4.01, the Regional Executive Director or District Manager has varied the Licence issued to the Licensee;
- (b) a court of competent jurisdiction subsequently overturns, sets aside or dissolves the determination or injunction referred to in that paragraph; and
- (c) it is practical to do so;

the Regional Executive Director or District Manager, at the request of the Licensee, will vary the Licence to reflect as closely as possible, for the remainder of its term, the terms and conditions of the Licence prior to the variation under paragraph 4.01.

4.03 Subject to this Licence and the forestry legislation, if:

- (a) under paragraph 4.01, the Regional Executive Director or District Manager has suspended the Licence;
- (b) a court of competent jurisdiction subsequently overturns, sets aside or dissolves the determination or injunction referred to in that paragraph; and
- (c) it is practical to do so;

the Regional Executive Director or District Manager, at the request of the Licensee, will reinstate the Licence for the remainder of its term.

5.00 FINANCIAL AND DEPOSITS

5.01 No security deposit is required.

6.00 LIABILITY & INDEMNITY

- 6.01 Subject to paragraph 6.04, the Licensee will indemnify the Government against and save it harmless from all claims, demands, suits, actions, causes of action, costs, expenses and losses faced, incurred or suffered by the Government as a result, directly or indirectly, of any act or omission of:
- (a) the Licensee;
 - (b) an employee or agent of the Licensee;
 - (c) a contractor of the Licensee who engages in any activity or carries out any operation, including but not restricted to the Licensee's operations, under or associated with this Licence; or
 - (d) any other person who on behalf of or with the consent of the Licensee engages in any activity or carries out any operation under or associated with this Licence.
- 6.02 For greater certainty, the Licensee has no obligation to indemnify the Government under paragraph 6.01 in respect of any act or omission of:
- (a) an employee, agent or contractor of the Government, in the course of carrying out his or her duties as employee, agent or contractor of the Government; or
 - (b) a person, other than the Licensee, to whom the Government has granted the right to use or occupy Crown land, in the course of exercising those rights.
- 6.03 Amounts taken under part 5.00 from the deposit and any payments required under parts 2.00 or 5.00, and payments required further to the indemnity referred to in paragraph 6.01 are in addition to and not in substitution for any other remedies available to the Government in respect of a default of the Licensee.
- 6.04 The Government is not liable to the Licensee for injuries, losses, expenses, or costs incurred or suffered by the Licensee as a result, directly or indirectly, of an act or omission of a person who is not a party to this Licence, including but not restricted to an act or omission of a person disrupting, stopping or otherwise interfering with the Licensee's operations under this Licence by road blocks or other means.

7.00 TERMINATION

- 7.01 If this Licence expires or is cancelled or is otherwise terminated:

- (a) all timber, including logs and post harvest material located on the licence area, will vest in the Crown, without right of compensation to the Licensee.

7.02 If the Licensee commits an act of bankruptcy, makes a general assignment for the benefit of its creditors or otherwise acknowledges its insolvency, the Licensee is deemed to have failed to perform an obligation under this Licence.

8.00 WAIVER

8.01 No waiver by the Crown of any default non-compliance by the Licensee in the strict and literal performance of or compliance with any provision of the Licence will be deemed to be a waiver of the strict and literal performance of or compliance with any other provision, condition or requirement of the Licence or to be a waiver of, or in any manner release the Licensee from compliance with any provision, condition or requirement in the future. nor will any delay or omission by the Crown in the exercising of any right hereunder in any manner with respect to non-compliance impair the exercise of any such rights in the future.

9.00 NOTICE

9.01 A notice given under this Licence must be in writing.

9.02 A notice given under this Licence may be:

- (a) delivered by hand;
- (b) sent by mail;
- (c) sent by facsimile transmission; or
- (d) sent by or electronic-mail;

to the address or facsimile number, as applicable, specified on the first page of this Licence, or to such other address or facsimile number as is specified in a notice given in accordance with this part.

9.03 If a notice is given under this Licence, it is deemed to have been given:

- (a) if it is given in accordance with subparagraph 9.02 (a) on the date it is delivered by hand;

- (b) if it is given in accordance with subparagraph 9.02 (b), subject to paragraph 9.04, on the eighth day after its deposit in a Canada Post Office at any place in Canada;
 - (c) if it is given in accordance with subparagraph 9.02 (c), subject to paragraph 9.05, on the date it is sent by facsimile transmission; and
 - (d) if it is given in accordance with subparagraph 9.02 (d), subject to paragraph 9.05, on the date it is sent by electronic mail transmission.
- 9.04 If, between the time a notice is mailed in accordance with subparagraph 9.02 (b) and the time it is actually received, there occurs a postal strike, lockout or slowdown that might reasonably affect delivery of the notice, the notice is not deemed to be given until the party actually receives it.
- 9.05 If a notice is sent by facsimile transmission or electronic mail, the party sending the notice must take reasonable steps to ensure that the transmission has been successfully completed.
- 9.06 Either party may, from time to time, advise the other party by notice in writing, of any change of address, email address or facsimile number of the party giving such notice and, from and after the giving of such notice, the address, email address or facsimile number specified will, for purposes of this Licence, be considered to be the address, email address or facsimile number of the party giving such notice.

10.00 MISCELLANEOUS

- 10.01 This Licence will inure to the benefit of, and be binding on, the parties and their respective heirs, executors, successors and permitted assigns.
- 10.02 The laws of British Columbia will govern the interpretation of this Licence and the performance of the Licensee's obligations under this Licence.
- 10.03 Any power conferred or duty imposed on the Regional Executive Director under this Licence may be exercised or fulfilled by a person authorized to do so by the Regional Executive Director.
- 10.04 Any non-statutory power conferred or duty imposed on the Regional Executive Director or District Manager under this Licence may be exercised or fulfilled by any person authorized to do so by the Regional Executive Director or District Manager.

- 10.05 If there is a conflict between the *Workers Compensation Act* or a regulation under that Act, and a provision of this Licence, the *Workers Compensation Act*, or the regulations made under that Act, prevails, and the Licensee must immediately notify the District Manager of the conflict and follow any direction given by the District Manager with respect to the conflict, provided such direction is consistent with the *Workers Compensation Act* and the regulations under that Act.
- 10.06 Nothing in this Licence authorizes the Licensee to in any way restrict the Government's right of access to the licence area or a road permit or the right of any other authorized entrant, user or occupier of these areas.
- 10.07 This Licence is the entire agreement between the parties as to the matters set out in this Licence, and all previous promises, representations or agreements between the parties, whether oral or written, are deemed to have been replaced by this Licence.
- 10.08 Unless otherwise defined in this Licence, if a word or phrase used in this Licence is defined in the legislation described in paragraph 10.02, the definition in the legislation applies to this Licence, and where the definition of the word or phrase in the legislation is replaced by a new definition of the word or phrase, this Licence is deemed to have been amended accordingly.
- 10.09 Time is of the essence in this Licence.
- 10.10 If any provision in this Licence is found to be invalid or unenforceable by a court of law, the remainder of this Licence is separately valid and enforceable to the fullest extent permitted by law.
- 10.11 The Licensee acknowledges that any information released to the Licensee by the District Manager, Regional Executive Director or the Government about the nature of the licence area, is not to be relied upon. Execution of this Licence by the Licensee is an absolute release by the Licensee of the District Manager, the Regional Executive Director and the Crown from any claim that the Licensee may have in respect of the nature of the licence area or the quality or quantity of timber.
- 10.12 The licensee, excluding those holding the licence in their individual capacity or as a First Nation recorded in Aboriginal Affairs and Northern Development Canada Registration System, must be registered to do business under the *Business Corporations Act*, and the licensee maintain such registration in good standing throughout the term of the licence.
- 10.13 This document contains the entire agreement and no additional terms are to be implied.

11.00 INTERPRETATION & DEFINITIONS

11.01 This Licence is divided into parts, paragraphs, subparagraphs, clauses and subclauses, illustrated as follows:

- 1.00 part;
 - 1.01 paragraph;
 - (a) subparagraph:
 - (i) clause;
 - (A) subclause;

and a reference to a subparagraph, clause or subclause is to be construed as a reference to a subparagraph, clause or subclause of the paragraph, subparagraph or clause, as the case may be, in which the reference occurs.

11.02 In this Licence, unless the context otherwise requires:

“forestry legislation” means the Statutes and regulations, to which the Licence is subject including: the *Forest Act*, the *Forest Practices Code of British Columbia Act*, the *Forest and Range Practices Act* and the *Wildlife Act*.

IN WITNESS WHEREOF the Licence has been executed by the District Manager and the Licensee.

SIGNED by the)
District Manager)
on behalf of Her Majesty)
the Queen in Right of)
the Province of)
British Columbia)
in the presence of:)


Signature)

Lindsey Wood)
Printed Name)

THE COMMON SEAL of)
the Licensee was affixed)
in the presence of:)

_____)
Signature)


_____)
Printed Name)

(or)

SIGNED by the Licensee)
in the presence of:)



Signature)

Vanessa Brenner)
Printed Name)


_____)
Michael C. Pedersen, R.P.F.)
District Manager)
Cariboo-Chilcotin Forest District)

2014-08-27)
Dated)

c/s


_____)
Licensee)

DALE REIMER GENERAL MANAGER)
Printed Name and Title)

August 27/14)
Dated)

SCHEDULE "A"

1.00 OTHER CONDITIONS AND REQUIREMENTS

- 1.01 In addition to the terms set out in the body of this Licence, the Licensee will also comply with the following conditions:
- (a) the Licensee must contact the District Manager before start up and completion of operations.
- 1.02 During the towing of the logs and log debris down Quesnel Lake, the licensee shall pick up other log debris (i.e. root balls) floating in Quesnel Lake and transport to West Fraser's reload at Beach Point.
- 1.03 At West Fraser's reload at Beach Point, the licensee shall dewater and sort the logs and log debris into the following products:
- (a) Saw log
 - (b) Pulp log
 - (c) Hog fuel
 - (d) Waste

Any material that cannot be processed at a timber processing facility shall be disposed of.

IN WITNESS WHEREOF the Licence has been executed by the District Manager and the Licensee.

SIGNED by the)
District Manager)
on behalf of Her Majesty)
the Queen in Right of)
the Province of)
British Columbia)
in the presence of:)


Signature)

Lindsey Wood)
Printed Name)

THE COMMON SEAL of)
the Licensee was affixed)
in the presence of:)
)

Signature)

Printed Name)

(or)

SIGNED by the Licensee)
in the presence of:)
)


Signature)


Vanessa Bremner)
Printed Name)



Michael C. Pedersen, R.P.F.
District Manager
Cariboo-Chilcotin Forest District

2014-08-27
Dated

c/s



Licensee

DALE REIMER GENERAL MANAGER
Printed Name and Title

August 27/14
Dated



Ministry of Forests and Range

Client System
Client Data Report

Page: Page 1 of 2
Date/Time Printed: 2014-08-12 15:00:45
User Id: IDIR\TRSKAKUN
Database: DBP01
Report Id: CLIENTR009P
File: 1180-20/CLIENT

Report Parameters

Client Number: **S.17** MOUNT POLLEY MINING CORPORATION

Client Maintenance

Client Number: **S.17** Type: C - Corporation Acronym: MTPOLLEY Status: ACT - Active
Name: MOUNT POLLEY MINING CORPORATION
Reg. Type: BC - British Columbia Company ID: 0388807
Doing Bus. As:
WCB Number: OCG Supplier:
Notes: PREV NAME IMPERIAL METALS CORP. MOUNT POLLEY OPERATING CO

Client Location

Location: 00 Expired: No Trust: No Return Mail: No
Address 1: BOX 12 Res:
Address 2: Bus: (250) 790-2215
Address 3: Cell:
City: LIKELY Fax: (250) 790-2268
Prov/State: BC
Country: CANADA
Postal Code: V0L1N0 Email: CFELKER@MOUNTPOLLEY.COM
Notes: EXT 206 - JUNE



Ministry of Forests and Range
Client System
Client Data Report

Page: Page 2 of 2
Date/Time Printed: 2014-08-12 15:00:46
User Id: IDIR\TRSKAKUN
Database: DBP01
Report Id: CLIENTR009P
File: 1180-20\CLIENT

Report Parameters

Client Number: **S.17** MOUNT POLLEY MINING CORPORATION

Client Contact

Location: 00

Type: SR - Stumpage Rates
Name: Colleen Hughes

Bus:
Cell:
Fax:
Email: chughes@mountpolley.com

Related Client

At Location: 00

<u>Related</u>	<u>Name</u>	<u>Relationship</u>	<u>%</u>	<u>Signing</u>
<u>Client / Locn</u>			<u>Ownership</u>	<u>Authority</u>
00092032 00	MOUNT POLLEY HOLDING COMPANY LTD.	Corporate Linkage		

End of Report

Skakun, Tracy FLNR:EX

From: Wood, Lindsey FLNR:EX
Sent: Thursday, September 4, 2014 8:13 AM
To: Skakun, Tracy FLNR:EX
Subject: RE: Mt Polley FLTC A92760

This one is for on the water of Quesnel lake and was a rush job....should be OK. The next ones we'll get the spatial in.

LW

From: Skakun, Tracy FLNR:EX
Sent: Wednesday, September 3, 2014 4:37 PM
To: Wood, Lindsey FLNR:EX
Subject: RE: Mt Polley FLTC A92760

Stumpage Rate Request form has been sent, issued tenure in FTA, entered sale volume as 2400 m3 in FTA (required to issue), requested new file and correspondence has been forwarded for file.

I see there is no ESF submission for this tenure, therefore no adjudication report – will this create issues spatially, Linds?

Tracy

From: Wood, Lindsey FLNR:EX
Sent: Wednesday, August 27, 2014 11:17 AM
To: Skakun, Tracy FLNR:EX
Subject: Mt Polley FLTC A92760

These documents have be signed and Harold is sending them off to Mt. Polley. I have put the approved copy in the pile on your desk.

I noticed there isn't a route card, I think all that is left is the last steps of FTA and stumpage request form. They aren't using this in the next week or so.

Can discuss when your back.

Lindsey Wood, RPF

Tenures Officer
Cariboo Chilcotin District
250-398-4689
lindsey.wood@gov.bc.ca

Skakun, Tracy FLNR:EX

From: Skakun, Tracy FLNR:EX
Sent: Wednesday, September 3, 2014 4:37 PM
To: Wood, Lindsey FLNR:EX
Subject: RE: Mt Polley FLTC A92760

Stumpage Rate Request form has been sent, issued tenure in FTA, entered sale volume as 2400 m3 in FTA (required to issue), requested new file and correspondence has been forwarded for file.

I see there is no ESF submission for this tenure, therefore no adjudication report – will this create issues spatially, Linds?

Tracy

From: Wood, Lindsey FLNR:EX
Sent: Wednesday, August 27, 2014 11:17 AM
To: Skakun, Tracy FLNR:EX
Subject: Mt Polley FLTC A92760

These documents have been signed and Harold is sending them off to Mt. Polley. I have put the approved copy in the pile on your desk.

I noticed there isn't a route card, I think all that is left is the last steps of FTA and stumpage request form. They aren't using this in the next week or so.

Can discuss when your back.

Lindsey Wood, RPF
Tenures Officer
Cariboo Chilcotin District
250-398-4689
lindsey.wood@gov.bc.ca

[Tenure](#) [CP/Mark](#) [Cut Block](#) [Assoc. Files](#) [Assoc. Client](#) [AAC](#) [Sale Info](#) [Tenure Appl](#) [Notes](#)
[G Rotation](#) [H Rotation](#) [Copy Rotation](#) [TL Blk](#) [CP/CB Amend](#) [Rec Project](#) [Scn Brnch](#) [Road History](#)

- File status change audited.
- Save successful.

FTA100 - Tenure

[Back To Search](#) [Add New](#)

File: [Go](#) Status: * As of: 2014-08-27
 Type: * Admin Org: *
 Licensee: 00139432 00 MOUNT POLLEY MINING CORPORATION District: * Sec. Licensees? N
 Mgmt Unit: U 29 * Williams Lake TSA Zone: 1 *

Effective Date: Term: yr mo Initial Expiry Date:
 Ext. Count: 0 Current Expiry Date: Extension Reason:

Location: Sched B (ha):

BCTS Fund: * BCTS Org: * Payment Method: *
 Purpose: *
 Mark:

Quota Type: *
 Catastrophic: * Deciduous: * Cruise Based: *
 Compliance Method: * Instrument: * Land Region:

[Save](#) [Delete](#) [Relinquish](#)

[Harvest History](#)

[Feedback](#) [Disclaimer](#) [Privacy](#) [Copyright](#)

Ministry of Forests & Range

<https://apps12.for.gov.bc.ca/fta/fta100TenureAction.do>

2014-09-03

Skakun, Tracy FLNR:EX

From: Wood, Lindsey FLNR:EX
Sent: Wednesday, August 27, 2014 11:17 AM
To: Skakun, Tracy FLNR:EX
Subject: Mt Polley FLTC A92760

These documents have be signed and Harold is sending them off to Mt. Polley. I have put the approved copy in the pile on your desk.

I noticed there isn't a route card, I think all that is left is the last steps of FTA and stumpage request form. They aren't using this in the next week or so.

Can discuss when your back.

Lindsey Wood, RPF

Tenures Officer
Cariboo Chilcotin District
250-398-4689
lindsey.wood@gov.bc.ca

Interior Stumpage Rate Request Form



REFER TO ATTACHED PROCEDURES DOCUMENT WHEN COMPLETING THIS FORM.

Licensee	Mount Polley Mining Corp.	Licence/Cutting Permit	A92760
Forest District	Cariboo Chilcotin	Timber Mark	92760
Forest Zone	Southwest	Area (ha)	-
Timber Supply Area	Williams Lake	Effective Date (Ministry Staff)	Aug 20, 2014
Competitive Cutting Authority?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Expiry Date (Ministry Staff)	Aug 19, 2016

IAM Sec.	Rate Calculation Method (Check 1 Box Only) Complete Silviculture and/or Bonus Section if Applicable	
Non-adjusting - redetermined annually		
6.1.1	Community Forest Agreement - August 1 (all cutting authorities)	<input type="checkbox"/>
6.1.2	Woodlot Licences - August 1 (CP, BSP or RP)	<input type="checkbox"/>
6.1.3	Deciduous Leading Rate - June 1	<input type="checkbox"/>
6.3	Road Timber Mark - June 1 (Including Woodlot Road Timber Marks with an eligible ERA) If Sec. 6.3(5) - Associated License	<input type="checkbox"/>
6.3	Blanket Salvage Cutting Permit - June 1	<input type="checkbox"/>
6.7	Licences to Cut-Non-Forestry Tenures - June 1 Table 6-3 + basic silviculture cost for the forest region. Type:	<input type="checkbox"/>
6.8	Controlled Recreation Areas (CRAs)- Anniversary Date	<input type="checkbox"/>
Fixed for term and all extensions		
5.1.1 (4)	BCTS Decked or Partially Harvested Timber TSM Requested Rate	<input type="checkbox"/>
6.2 (1)	Average Sawlog Stumpage Rate - Table 6-1	<input type="checkbox"/>
6.2 (2)	Intermediate salvage If VCU, attach approved form	<input type="checkbox"/>
6.2.1	FLTC for Specific Purposes (No Volume Limit)	
(1) (a)	FLTC awarded to highest bidder. Community wildfire protection, or removing damaged timber from plantations or natural stands (attach approved VCU form)	<input type="checkbox"/>
	Utilizing post harvest material in landings or at roadside after waste assessment done (attach approved VCU form)	<input type="checkbox"/>
(1) (c)	Direct award FLTC for community wildfire protection, or, for FLTC issued to lowest bidder on a contract for community wildfire protection (i) Table 6-1 rates (ii) Damaged Timber - Table 6-4 rates	<input type="checkbox"/>
(1) (d)	Direct award FLTC issued to the lowest bidder on a contract for removing damaged timber from natural stands or plantations	<input type="checkbox"/>
(1) (e)	Timber will be chipped or hogged on site.	<input type="checkbox"/>
6.4	Salvage Timber Stumpage Rate - No AAC Damaged Timber - Table 6-4 (> 1/3 of volume damaged by blow down, fire, disease, snow press, or pest) Clearcut < 3ha: <input type="checkbox"/> or Stocked stand post-harvest? <input type="checkbox"/> Post Harvest Material - Table 6-5 (wood culverts and bridges, or post logging residue)	<input checked="" type="checkbox"/>
6.5	Decked > 3 yrs <input type="checkbox"/> < 3ys <input type="checkbox"/> If VCU, attach approved form Partially Harvested Timber > 3 yrs <input type="checkbox"/> < 3ys <input type="checkbox"/> If VCU, attach approved form	<input type="checkbox"/>
6.6	Miscellaneous Stumpage Rates - Table 6-6 Species: Product:	<input type="checkbox"/>
6.7	Licences to Cut - FLTC issued under section 47.6(3) of the Act in conjunction with a BCTS contract. Table 6-3 + basic silviculture cost for the forest region.	<input type="checkbox"/>

Volume Estimates	
Total Coniferous Volume.	2000 m ³
Total Deciduous Volume.	400 m ³
In Comments Box, describe how the volume estimate was derived (refer to Procedures page)..	

Silviculture (refer to attached procedures)	
Silviculture Responsibility: Crown: <input type="checkbox"/> Licensee: <input checked="" type="checkbox"/> n/a <input checked="" type="checkbox"/>	
Apply Silviculture Levy: Grades 1 & 2: <input type="checkbox"/> Grade 4: <input type="checkbox"/> Grade 6: <input type="checkbox"/> Deciduous: <input type="checkbox"/>	
Silviculture Levy: \$ per m ³	

Bonus Section (attach signed Tender form)	
Bonus Offer: <input type="checkbox"/> Bonus Bid: <input type="checkbox"/>	
Amount: \$ or /m ³	
Apply bonus bid: Grades 1 & 2: <input type="checkbox"/> Grade 4: <input type="checkbox"/> Grade 6: <input type="checkbox"/> Deciduous: <input type="checkbox"/>	

Authority	
License Representative	
Signature and Seal (if applicable)	
Date	

District Review	
Signature	
Field Verifier	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Date	Aug. 19, 2014

Regional Revenue Section Employee	
Signature	
Date	

Comments

Volume is an estimate.

Interior Stumpage Rate Request Form Procedures

Please complete all fields on the form. Refer to Chapters 5 or 6 of the Interior Appraisal Manual in effect on the Effective Date (Issue Date in FTA or date the rate is determined for advertising purposes) of the cutting authority for more information.

North Area – The District Review Officer must sign all forms, which are then e-mailed to RNIREVShortForms@gov.bc.ca with the District/Timbermark in the Subject Line (examples: DPG/WEDCBA, DJA/54321)

South Area – The District Review Officer must sign all forms, which are then e-mailed to REVSFRMS@gov.bc.ca with the District/Timbermark in the Subject Line (examples: DKA/WABCDE, DCS/12345)

Field	Comments
Licensee	Enter Licensee if known.
Forest District	Enter the Forest District the Licence is within.
Forest Zone	Enter the Forest Zone the Licence is within as per Section 6.1 of the IAM.
Timber Supply Area	If Road Permit, Blanket Salvage Permit or Linear Tenure - Enter the Timber Supply Area the Licence is within.
Competitive Cutting Authority	Check "Yes" if the Cutting Authority is competitively awarded, otherwise, check "No". Please discuss with Regional Pricing staff prior to advertising, to ensure correct rates are used. For competitive cutting authorities, once the cutting authority has been issued and FTA updated, please e-mail a copy of the application and tender documents (FS 574 or equivalent) to the Region. If the bonus bid is known at the time the form is submitted, please enter in the Bonus Section.
Licence and Cutting Permit	Enter Licence number and Cutting Permit (if applicable)
Timber Mark	Enter the Timber Mark
Area (ha)	Enter the cutting authority area in hectares. If the area does not match FTA, please provide a rationale in the comments field. Not required for Community Forest Agreements, Woodlot Licences, Special Forest Products, Blanket Salvage and Road Permit cutting authorities.
Effective Date	Ministry Staff only: Enter the issue date of the cutting authority as entered in FTA or when rates are requested for advertising enter request date and "advertising".
Expiry Date	Ministry Staff only: Enter the expiry date of the cutting authority as entered in FTA
Rate Calculation Method	Select the appropriate rate calculation method. Please consult the IAM for the requirements of each method to ensure the cutting authority meets the criteria. Where applicable, complete the Silviculture section of the form. Where variable cost upset (VCU) was used, please attach the VCU form showing the calculations (VCU rates must be approved by the RED prior to advertising). Where applicable, select which grades the bonus bid applies to. For competitively awarded cutting authorities, please complete the bonus section and e-mail the application and tender. If the bonus bid applies to deciduous, indicate which species and grades of deciduous in the comments section. For rates under Section 6.5, please indicate if it has been greater than or less than 3 years since the timber was decked or partially harvested. Where there is a requirement in the IAM for a waste assessment to be completed prior to being eligible for a given rate (eg Section 6.4 Post Harvest Material), please indicate in the comments box that the requirement has been met.
Volume Estimates	For blanket salvage cutting permits, road timber marks, Community Forest Agreements and Woodlot Licences, this information is not required. Describe in the Comments Box how the volume estimate was derived i.e. VRI, cruise, comparative cruise, professional estimate, other.
Silviculture	Crown: On any cutting authority where there is a requirement to establish a free growing crop of trees and the expense will be incurred by the Crown, a Silviculture Levy, calculated by the DM, may be added to the stumpage rate or the reserve stumpage rate for any or all species and grades. Licensee: Where there is a requirement to establish a free growing crop of trees and the expense will be incurred by the Licensee. N/A: Where there is no requirement to establish a free growing crop of trees a silviculture cost estimate from the Interior Basic Silviculture Costs by Species Table - Interior Parameters (provided quarterly by Revenue branch) will be added to the Table 6-1 rate. Indicate the grades the levy will apply to. If the levy applies to deciduous, indicate which grades of deciduous in the comments section. Indicate the Silviculture Levy determined by the DM (may be \$0.00). Supporting documentation for the levy should be kept on the District file.
Bonus	Any bonus bid/offer information must be entered here.
Comments	Enter any comments, particularly around any unusual aspects of the licence.
Interior Stumpage Rate Request Form Authority and Signatures	Blanket Salvage Permit, Road Permits, Community Forest Agreement and Woodlot Cutting Authorities: A professional signature and seal is not required. If the Licensee completes the form, it must be signed by both the Licensee and the District Review Officer. If the District Review Officer completes the form, it must be signed by the District Review Officer who accepts responsibility for the content of the form. All other Cutting Authorities: A professional signature and seal and the signature of the District Review Officer are required. In place of a professional seal, the RPF or RFT designation and # must be indicated along with the signature. Where the District Review Officer has completed the form on behalf of the Licensee, only the signature of the District Review Officer is required however, in this case, the District Review Officer accepts full responsibility for the content of the form. The District Review Officer accepting responsibility for the content of the form must be an RFT or RPF and the form must be signed and sealed as instructed above.

Adams, Nicole CSNR:EX

From: Weir, David J FLNR:EX
Sent: Thursday, September 18, 2014 4:32 PM
To: 'dreimer@mountpolley.com'
Cc: XT:Carpenter, Penny FLNR:IN; Williston, Lee X FLNR:EX; Stolar, Harold B FLNR:EX
Subject: Mt Polley Sept 29 field trip

Hi Dale, I am trying to set up a multiagency field trip to look at the clean up by boat on September 29th 2014 and I am touching base with you. This trip will be looking specifically at Kokanee shore spawning and the state of the debris cleanup around the lake and at the mouth of Hazeltine creek. The purpose is to set the baseline understanding concerning debris for those individuals who will be likely to be questioned about debris issues next spring plus confirm that Kokanee shore spawning sites have not been disturbed. Maggie from MOTI is confirmed, as well as Harold and I am looking from someone from CRD plus Lee and Penny and Russ if he wants to come. The plan right now is to leave from Cedar point at 10:30 am subject to confirming this with Lee who will be driving the boat.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

Adams, Nicole CSNR:EX

From: Weir, David J FLNR:EX
Sent: Tuesday, September 23, 2014 8:13 AM
To: Dean, Sharon GCPE:EX; Fenwick, Leigh-Ann ENV:EX; Hoffos, Robin FLNR:EX; Henley, Margaret TRAN:EX; Bunce, Hubert ENV:EX; Stolar, Harold B FLNR:EX
Cc: Williston, Lee X FLNR:EX; XT:Carpenter, Penny FLNR:IN
Subject: Mount Polley Update on Quesnel Lake Clean up
Attachments: FW: Emailing: Post Construction Report Quesnel Lake Debris Cleanup; FW: Emailing: Addendum to Mount Polley Debris Clean Up in Quesnel Lake Sept 15th

Please find the attached information for the record and in preparation for the boat trip on Sep 29th 2014.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

Adams, Nicole CSNR:EX

From: Stolar, Harold B FLNR:EX
Sent: Wednesday, September 24, 2014 8:42 AM
To: Williston, Lee X FLNR:EX
Cc: Weir, David J FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

Perfect.

Inspiring Stewardship through Respectful Conversation

Harold

From: Williston, Lee X FLNR:EX
Sent: Wednesday, September 24, 2014 8:39 AM
To: Stolar, Harold B FLNR:EX
Cc: Weir, David J FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

s.22

I'll just meet you guys in the parking lot out front at 830.

From: Stolar, Harold B FLNR:EX
Sent: Wednesday, September 24, 2014 8:37 AM
To: Williston, Lee X FLNR:EX
Cc: Weir, David J FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

Lee, I will be coming with you and David. What time will we be leaving the office?

Inspiring Stewardship through Respectful Conversation

Harold

From: Weir, David J FLNR:EX
Sent: Wednesday, September 24, 2014 8:16 AM
To: Henley, Margaret TRAN:EX; Stolar, Harold B FLNR:EX; Bunce, Hubert ENV:EX; Hoffos, Robin FLNR:EX; Fenwick, Leigh-Ann ENV:EX; XT:Carpenter, Penny FLNR:IN
Cc: Williston, Lee X FLNR:EX
Subject: FW: Mount Polley Update on Quesnel Lake Clean up

I will travel with Lee from Williams Lake and I suspect Harold will come with us. For those who are coming please coordinate with Lee. I will not be available until late Friday. Penny, could you please coordinate the safety issue with Dale?

See you on Monday.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake, BC
David.J.Weir@gov.bc.ca

(250) 398 4924
Cell 250 267-5925

From: Williston, Lee X FLNR:EX
Sent: Tuesday, September 23, 2014 8:36 AM
To: Weir, David J FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

Hey Dave,

The boat is already at Quesnel Lake. It is moored at Elysia Resort. We will have drive out there to get it. I can either go and pick you up at Likely or you can come with me. It's about a 45 minute boat ride from Elysia to Hazeltine Creek area.

From: Weir, David J FLNR:EX
Sent: Tuesday, September 23, 2014 8:13 AM
To: Dean, Sharon GCPE:EX; Fenwick, Leigh-Ann ENV:EX; Hoffos, Robin FLNR:EX; Henley, Margaret TRAN:EX; Bunce, Hubert ENV:EX; Stolar, Harold B FLNR:EX
Cc: Williston, Lee X FLNR:EX; XT:Carpenter, Penny FLNR:IN
Subject: Mount Polley Update on Quesnel Lake Clean up

Please find the attached information for the record and in preparation for the boat trip on Sep 29th 2014.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake, BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

Adams, Nicole CSNR:EX

From: Weir, David J FLNR:EX
Sent: Tuesday, September 30, 2014 1:37 PM
To: XT:Carpenter, Penny FLNR:IN
Cc: Williston, Lee X FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

I was speaking to the small piles that are left at the site as we discussed. You were going to discuss the matter with the upland owner.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

-----Original Message-----

From: Penny Carpenter s.22
Sent: Tuesday, September 30, 2014 1:01 PM
To: Weir, David J FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

Hi David

When you mention the kokanee shore spawning area should progress first... I was under the impression that Lee considered Mitchel Bay 100% done as only a few small piles remained that were being burnt by hand and would have no impact on the spawning. There will not be any further work in Mitchel bay by boat or machine so it should be considered complete prior to the deadline of Oct 1. I did not know of any other shoreline that was a considered a spawning area for Kokanee that we have not already cleaned out other than Hazeltine. Please let me know if I misunderstood Lee when he considered the spawning area 100% complete.

Penny

-----Original Message-----

From: Weir, David J FLNR:EX [mailto:David.J.Weir@gov.bc.ca]
Sent: September-30-14 8:46 AM
To: Henley, Margaret TRAN:EX; XT:Carpenter, Penny FLNR:IN; Williston, Lee X FLNR:EX; Stolar, Harold B FLNR:EX; 'rbastien@cariboord.bc.ca'; Fenwick, Leigh-Ann ENV:EX; Bunce, Hubert ENV:EX
Cc: Vanderburgh, Ken FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

We completed the boat review on Quesnel Lake and visited the sediment pond site on Hazeltine. We understand that efforts will continue at the mouth of Hazeltine to remove debris for one more week and then efforts will shift to the removal of contained debris on the lake and shore. A shoreline slope at the mouth of Hazeltine will be resloped and stabilized as per RP Bio prescription.

I apologise to Russ as I don't have his email address handy to copy him on this email.

I remained concerned about the progress of the work but recognize the logistical limitations on the operation. The clean up at the mouth of Hazeltine appears to be going well but at the expense of the debris removal for the rest of the

lake but overall the debris is contained as per the order the logistics of the removal are best left to the company although those sites that may have Kokanee shore spawning should progress first.

There a significant amount of debris remains as does the risk to the Likely bridge. I am concerned that the construction of the sediment ponds on Hazeltine appear to be one week behind what should be expected but I think that the delay is reasonably justified to achieve due diligence with respect to any potential Archeological resources. It is just as important to confirm the absence of resources as it is to discover their presence. My larger concern was that the resources have developed access to the site before winter conditions reduced the effectiveness of field reconnaissance and design. My understanding from talking to Russ is that the lake draw down continues and is about 50% complete but as per the order the lake level is being maintained at a level that maintains the stability of the plug.

I will have another look near the end of October by vehicle and I will need to visit the Polley lake site at that time.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Henley, Margaret TRAN:EX
Sent: Friday, September 26, 2014 4:24 PM
To: Weir, David J FLNR:EX
Cc: XT:Carpenter, Penny FLNR:IN; Williston, Lee X FLNR:EX; Stolar, Harold B FLNR:EX
Subject: Re: Mount Polley Update on Quesnel Lake Clean up

Okay I will bring Rowena and we will meet you at the boat launch area at Cedar Creek in Likely?

Sent from Margie's iPhone

On Sep 26, 2014, at 4:20 PM, "Weir, David J FLNR:EX"
<David.J.Weir@gov.bc.ca<mailto:David.J.Weir@gov.bc.ca>> wrote:
We should be up at cedar point about 10:30?

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC
David.J.Weir@gov.bc.ca<mailto:David.J.Weir@gov.bc.ca>
(250) 398 4924
Cell 250 267-5925

From: Williston, Lee X FLNR:EX
Sent: Wednesday, September 24, 2014 8:39 AM
To: Stolar, Harold B FLNR:EX
Cc: Weir, David J FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

s.22 I'll just meet you guys in the parking lot out front at 830.

From: Stolar, Harold B FLNR:EX
Sent: Wednesday, September 24, 2014 8:37 AM
To: Williston, Lee X FLNR:EX
Cc: Weir, David J FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

Lee, I will be coming with you and David. What time will we be leaving the office?

Inspiring Stewardship through Respectful Conversation Harold

From: Weir, David J FLNR:EX

Sent: Wednesday, September 24, 2014 8:16 AM

To: Henley, Margaret TRAN:EX; Stolar, Harold B FLNR:EX; Bunce, Hubert ENV:EX; Hoffos, Robin FLNR:EX; Fenwick, Leigh-Ann ENV:EX; XT:Carpenter, Penny FLNR:IN

Cc: Williston, Lee X FLNR:EX

Subject: FW: Mount Polley Update on Quesnel Lake Clean up

I will travel with Lee from Williams Lake and I suspect Harold will come with us. For those who are coming please coordinate with Lee. I will not be available until late Friday. Penny, could you please coordinate the safety issue with Dale?

See you on Monday.

David Weir

Water Section Head,

Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC

David.J.Weir@gov.bc.ca<mailto:David.J.Weir@gov.bc.ca>

(250) 398 4924

Cell 250 267-5925

From: Williston, Lee X FLNR:EX

Sent: Tuesday, September 23, 2014 8:36 AM

To: Weir, David J FLNR:EX

Subject: RE: Mount Polley Update on Quesnel Lake Clean up

Hey Dave,

The boat is already at Quesnel Lake. It is moored at Elysia Resort. We will have drive out there to get it. I can either go and pick you up at Likely or you can come with me. It's about a 45 minute boat ride from Elysia to Hazeltine Creek area.

From: Weir, David J FLNR:EX

Sent: Tuesday, September 23, 2014 8:13 AM

To: Dean, Sharon GCPE:EX; Fenwick, Leigh-Ann ENV:EX; Hoffos, Robin FLNR:EX; Henley, Margaret TRAN:EX; Bunce, Hubert ENV:EX; Stolar, Harold B FLNR:EX

Cc: Williston, Lee X FLNR:EX; XT:Carpenter, Penny FLNR:IN

Subject: Mount Polley Update on Quesnel Lake Clean up

Please find the attached information for the record and in preparation for the boat trip on Sep 29th 2014.

David Weir

Water Section Head,

Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC

David.J.Weir@gov.bc.ca<mailto:David.J.Weir@gov.bc.ca>

(250) 398 4924

Cell 250 267-5925

Adams, Nicole CSNR:EX

From: XT:Carpenter, Penny FLNR:IN
Sent: Wednesday, October 8, 2014 9:38 PM
To: Weir, David J FLNR:EX
Cc: Williston, Lee X FLNR:EX; Stolar, Harold B FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

Hi David, Lee and Harold

During our tour on the 29, I had told you that there were only 2 piles in Mitchel Bay. When I went to do the burning I found several small piles. I wanted to let you know that I did not try to mislead you in any way. As it turned out the last time I was there, there really were only two piles right in the bay and about 3 on the far point but.... the crew went back through one last time. The piled any small remaining debris after I was there and before our tour.

All these small piles are burnt and the Bay is 100% done.
Thanks Penny

-----Original Message-----

From: Weir, David FLNR:EX [mailto:David.J.Weir@gov.bc.ca]
Sent: September-30-14 4:36 PM
To: XT:Carpenter, Penny FLNR:IN
Cc: Stolar, Harold B FLNR:EX; Fenwick, Leigh-Ann ENV:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

As per the trip discussions the outcome is that the debris be removed prior to the shorespawning at that site. The method is as per your Professional in this case the RP Bio.

On a side note Worksafe BC has requested information about who Imperial Metals, as owner of the works, will be designating as Primary contractors on the worksites outside the mine and we would also like to know so we can be able to contact them when doing site visits?

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

-----Original Message-----

From: Penny Carpenter s.22
Sent: Tuesday, September 30, 2014 4:08 PM
To: Weir, David J FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

Hi David

Ok thank you for clarification.

I went there yesterday after the tour and told him that we planned to burn the small piles as soon as possible. He asked us to give him some time to go through them and pick out what he wanted. He was doing that today. Weather permitting they will be burnt tomorrow.

Thanks Penny

-----Original Message-----

From: Weir, David J FLNR:EX [mailto:David.J.Weir@gov.bc.ca]
Sent: September-30-14 1:37 PM
To: XT:Carpenter, Penny FLNR:IN
Cc: Williston, Lee X FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

I was speaking to the small piles that are left at the site as we discussed.
You were going to discuss the matter with the upland owner.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

-----Original Message-----

From: Penny Carpenter s.22
Sent: Tuesday, September 30, 2014 1:01 PM
To: Weir, David J FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

Hi David

When you mention the kokanee shore spawning area should progress first... I was under the impression that Lee considered Mitchel Bay 100% done as only a few small piles remained that were being burnt by hand and would have no impact on the spawning. There will not be any further work in Mitchel bay by boat or machine so it should be considered complete prior to the deadline of Oct 1. I did not know of any other shoreline that was a considered a spawning area for Kokanee that we have not already cleaned out other than Hazeltine. Please let me know if I misunderstood Lee when he considered the spawning area 100% complete.

Penny

-----Original Message-----

From: Weir, David J FLNR:EX [mailto:David.J.Weir@gov.bc.ca]
Sent: September-30-14 8:46 AM
To: Henley, Margaret TRAN:EX; XT:Carpenter, Penny FLNR:IN; Williston, Lee X FLNR:EX; Stolar, Harold B FLNR:EX; 'rbastien@cariboord.bc.ca'; Fenwick, Leigh-Ann ENV:EX; Bunce, Hubert ENV:EX
Cc: Vanderburgh, Ken FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

We completed the boat review on Quesnel Lake and visited the sediment pond site on Hazeltine. We understand that efforts will continue at the mouth of Hazeltine to remove debris for one more week and then efforts will shift to the removal of contained debris on the lake and shore. A shoreline slope at the mouth of Hazeltine will be resloped and stabilized as per RP Bio prescription.

I apologise to Russ as I don't have his email address handy to copy him on this email.

I remained concerned about the progress of the work but recognize the logistical limitations on the operation. The clean up at the mouth of Hazeltine appears to be going well but at the expense of the debris removal for the rest of the

lake but overall the debris is contained as per the order the logistics of the removal are best left to the company although those sites that may have Kokanee shore spawning should progress first.

There a significant amount of debris remains as does the risk to the Likely bridge. I am concerned that the construction of the sediment ponds on Hazeltine appear to be one week behind what should be expected but I think that the delay is reasonably justified to achieve due diligence with respect to any potential Archeological resources. It is just as important to confirm the absence of resources as it is to discover their presence. My larger concern was that the resources have developed access to the site before winter conditions reduced the effectiveness of field reconnaissance and design. My understanding from talking to Russ is that the lake draw down continues and is about 50% complete but as per the order the lake level is being maintained at a level that maintains the stability of the plug.

I will have another look near the end of October by vehicle and I will need to visit the Polley lake site at that time.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Henley, Margaret TRAN:EX
Sent: Friday, September 26, 2014 4:24 PM
To: Weir, David J FLNR:EX
Cc: XT:Carpenter, Penny FLNR:IN; Williston, Lee X FLNR:EX; Stolar, Harold B FLNR:EX
Subject: Re: Mount Polley Update on Quesnel Lake Clean up

Okay I will bring Rowena and we will meet you at the boat launch area at Cedar Creek in Likely?

Sent from Margie's iPhone

On Sep 26, 2014, at 4:20 PM, "Weir, David J FLNR:EX"
<David.J.Weir@gov.bc.ca<mailto:David.J.Weir@gov.bc.ca>> wrote:
We should be up at cedar point about 10:30?

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC
David.J.Weir@gov.bc.ca<mailto:David.J.Weir@gov.bc.ca>
(250) 398 4924
Cell 250 267-5925

From: Williston, Lee X FLNR:EX
Sent: Wednesday, September 24, 2014 8:39 AM
To: Stolar, Harold B FLNR:EX
Cc: Weir, David J FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

s.22

I'll just meet you guys in the parking lot out front at 830.

From: Stolar, Harold B FLNR:EX
Sent: Wednesday, September 24, 2014 8:37 AM
To: Williston, Lee X FLNR:EX
Cc: Weir, David J FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

Lee, I will be coming with you and David. What time will we be leaving the office?

Inspiring Stewardship through Respectful Conversation Harold

From: Weir, David J FLNR:EX

Sent: Wednesday, September 24, 2014 8:16 AM

To: Henley, Margaret TRAN:EX; Stolar, Harold B FLNR:EX; Bunce, Hubert ENV:EX; Hoffos, Robin FLNR:EX; Fenwick, Leigh-Ann ENV:EX; XT:Carpenter, Penny FLNR:IN

Cc: Williston, Lee X FLNR:EX

Subject: FW: Mount Polley Update on Quesnel Lake Clean up

I will travel with Lee from Williams Lake and I suspect Harold will come with us. For those who are coming please coordinate with Lee. I will not be available until late Friday. Penny, could you please coordinate the safety issue with Dale?

See you on Monday.

David Weir

Water Section Head,

Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC

David.J.Weir@gov.bc.ca<mailto:David.J.Weir@gov.bc.ca>

(250) 398 4924

Cell 250 267-5925

From: Williston, Lee X FLNR:EX

Sent: Tuesday, September 23, 2014 8:36 AM

To: Weir, David J FLNR:EX

Subject: RE: Mount Polley Update on Quesnel Lake Clean up

Hey Dave,

The boat is already at Quesnel Lake. It is moored at Elysia Resort. We will have drive out there to get it. I can either go and pick you up at Likely or you can come with me. It's about a 45 minute boat ride from Elysia to Hazeltine Creek area.

From: Weir, David J FLNR:EX

Sent: Tuesday, September 23, 2014 8:13 AM

To: Dean, Sharon GCPE:EX; Fenwick, Leigh-Ann ENV:EX; Hoffos, Robin FLNR:EX; Henley, Margaret TRAN:EX; Bunce, Hubert ENV:EX; Stolar, Harold B FLNR:EX

Cc: Williston, Lee X FLNR:EX; XT:Carpenter, Penny FLNR:IN

Subject: Mount Polley Update on Quesnel Lake Clean up

Please find the attached information for the record and in preparation for the boat trip on Sep 29th 2014.

David Weir

Water Section Head,

Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC

David.J.Weir@gov.bc.ca<mailto:David.J.Weir@gov.bc.ca>

(250) 398 4924

Cell 250 267-5925

Adams, Nicole CSNR:EX

From: Weir, David J FLNR:EX
Sent: Thursday, October 9, 2014 8:45 AM
To: XT:Carpenter, Penny FLNR:IN
Cc: Williston, Lee X FLNR:EX; Stolar, Harold B FLNR:EX; Hoffos, Robin FLNR:EX; Bunce, Hubert ENV:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

Thank you, all we need to know is the Bay is done. I am very unlikely to comment on the operational details of the work unless I become aware of a public safety issue or if the clean up is being held up for some reason such as archaeology. My larger concern is that the existing debris is removed by the end of October and control measures are in place to prevent additional debris reaching the Likely Bridge during spring freshet. With winter conditions effective debris removal and control is likely to become very difficult.

Do you have Russ's email address? I want to talk to him about the progress of the sediment control works. I have to talk to MOE and Mines but it is likely that the next step for those works will be a water licence application for sediment control.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

-----Original Message-----

From: Penny Carpenter s.22
Sent: Wednesday, October 8, 2014 9:38 PM
To: Weir, David J FLNR:EX
Cc: Williston, Lee X FLNR:EX; Stolar, Harold B FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

Hi David, Lee and Harold

During our tour on the 29, I had told you that there were only 2 piles in Mitchel Bay. When I went to do the burning I found several small piles. I wanted to let you know that I did not try to mislead you in any way. As it turned out the last time I was there, there really were only two piles right in the bay and about 3 on the far point but.... the crew went back through one last time. The piled any small remaining debris after I was there and before our tour.

All these small piles are burnt and the Bay is 100% done.
Thanks Penny

-----Original Message-----

From: Weir, David FLNR:EX [mailto:David.J.Weir@gov.bc.ca]
Sent: September-30-14 4:36 PM
To: XT:Carpenter, Penny FLNR:IN
Cc: Stolar, Harold B FLNR:EX; Fenwick, Leigh-Ann ENV:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

As per the trip discussions the outcome is that the debris be removed prior to the shore spawning at that site. The method is as per your Professional in this case the RP Bio.

On a side note Worksafe BC has requested information about who Imperial Metals, as owner of the works, will be designating as Primary contractors on the worksites outside the mine and we would also like to know so we can be able to contact them when doing site visits?

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

-----Original Message-----

From: Penny Carpenter | [s.22](#)
Sent: Tuesday, September 30, 2014 4:08 PM
To: Weir, David J FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

Hi David
Ok thank you for clarification.
I went there yesterday after the tour and told him that we planned to burn the small piles as soon as possible. He asked us to give him some time to go through them and pick out what he wanted. He was doing that today. Weather permitting they will be burnt tomorrow.
Thanks Penny

-----Original Message-----

From: Weir, David J FLNR:EX [mailto:David.J.Weir@gov.bc.ca]
Sent: September-30-14 1:37 PM
To: XT:Carpenter, Penny FLNR:IN
Cc: Williston, Lee X FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

I was speaking to the small piles that are left at the site as we discussed.
You were going to discuss the matter with the upland owner.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

-----Original Message-----

From: Penny Carpenter | [s.22](#)
Sent: Tuesday, September 30, 2014 1:01 PM
To: Weir, David J FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

Hi David
When you mention the kokanee shore spawning area should progress first... I was under the impression that Lee considered Mitchel Bay 100% done as only a few small piles remained that were being burnt by hand and would have

no impact on the spawning. There will not be any further work in Mitchel bay by boat or machine so it should be considered complete prior to the deadline of Oct 1. I did not know of any other shoreline that was a considered a spawning area for Kokanee that we have not already cleaned out other than Hazeltine. Please let me know if I misunderstood Lee when he considered the spawning area 100% complete.

Penny

-----Original Message-----

From: Weir, David J FLNR:EX [mailto:David.J.Weir@gov.bc.ca]

Sent: September-30-14 8:46 AM

To: Henley, Margaret TRAN:EX; XT:Carpenter, Penny FLNR:IN; Williston, Lee X FLNR:EX; Stolar, Harold B FLNR:EX; 'rbastien@cariboord.bc.ca'; Fenwick, Leigh-Ann ENV:EX; Bunce, Hubert ENV:EX

Cc: Vanderburgh, Ken FLNR:EX

Subject: RE: Mount Polley Update on Quesnel Lake Clean up

We completed the boat review on Quesnel Lake and visited the sediment pond site on Hazeltine. We understand that efforts will continue at the mouth of Hazeltine to remove debris for one more week and then efforts will shift to the removal of contained debris on the lake and shore. A shoreline slope at the mouth of Hazeltine will be resloped and stabilized as per RP Bio prescription.

I apologise to Russ as I don't have his email address handy to copy him on this email.

I remained concerned about the progress of the work but recognize the logistical limitations on the operation. The clean up at the mouth of Hazeltine appears to be going well but at the expense of the debris removal for the rest of the lake but overall the debris is contained as per the order the logistics of the removal are best left to the company although those sites that may have Kokanee shore spawning should progress first.

There a significant amount of debris remains as does the risk to the Likely bridge. I am concerned that the construction of the sediment ponds on Hazeltine appear to be one week behind what should be expected but I think that the delay is reasonably justified to achieve due diligence with respect to any potential Archeological resources. It is just as important to confirm the absence of resources as it is to discover their presence. My larger concern was that the resources have developed access to the site before winter conditions reduced the effectiveness of field reconnaissance and design. My understanding from talking to Russ is that the lake draw down continues and is about 50% complete but as per the order the lake level is being maintained at a level that maintains the stability of the plug.

I will have another look near the end of October by vehicle and I will need to visit the Polley lake site at that time.

David Weir

Water Section Head,

Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC David.J.Weir@gov.bc.ca

(250) 398 4924

Cell 250 267-5925

From: Henley, Margaret TRAN:EX

Sent: Friday, September 26, 2014 4:24 PM

To: Weir, David J FLNR:EX

Cc: XT:Carpenter, Penny FLNR:IN; Williston, Lee X FLNR:EX; Stolar, Harold B FLNR:EX

Subject: Re: Mount Polley Update on Quesnel Lake Clean up

Okay I will bring Rowena and we will meet you at the boat launch area at Cedar Creek in Likely?

Sent from Margie's iPhone

On Sep 26, 2014, at 4:20 PM, "Weir, David J FLNR:EX"
<David.J.Weir@gov.bc.ca<mailto:David.J.Weir@gov.bc.ca>> wrote:
We should be up at cedar point about 10:30?

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC
David.J.Weir@gov.bc.ca<mailto:David.J.Weir@gov.bc.ca>
(250) 398 4924
Cell 250 267-5925

From: Williston, Lee X FLNR:EX
Sent: Wednesday, September 24, 2014 8:39 AM
To: Stolar, Harold B FLNR:EX
Cc: Weir, David J FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

s.22 I'll just meet you guys in the parking lot out front at 830.

From: Stolar, Harold B FLNR:EX
Sent: Wednesday, September 24, 2014 8:37 AM
To: Williston, Lee X FLNR:EX
Cc: Weir, David J FLNR:EX
Subject: RE: Mount Polley Update on Quesnel Lake Clean up

Lee, I will be coming with you and David. What time will we be leaving the office?

Inspiring Stewardship through Respectful Conversation Harold

From: Weir, David J FLNR:EX
Sent: Wednesday, September 24, 2014 8:16 AM
To: Henley, Margaret TRAN:EX; Stolar, Harold B FLNR:EX; Bunce, Hubert ENV:EX; Hoffos, Robin FLNR:EX; Fenwick, Leigh-Ann ENV:EX; XT:Carpenter, Penny FLNR:IN
Cc: Williston, Lee X FLNR:EX
Subject: FW: Mount Polley Update on Quesnel Lake Clean up

I will travel with Lee from Williams Lake and I suspect Harold will come with us. For those who are coming please coordinate with Lee. I will not be available until late Friday. Penny, could you please coordinate the safety issue with Dale?

See you on Monday.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC
David.J.Weir@gov.bc.ca<mailto:David.J.Weir@gov.bc.ca>
(250) 398 4924
Cell 250 267-5925

From: Williston, Lee X FLNR:EX
Sent: Tuesday, September 23, 2014 8:36 AM
To: Weir, David J FLNR:EX

Subject: RE: Mount Polley Update on Quesnel Lake Clean up

Hey Dave,

The boat is already at Quesnel Lake. It is moored at Elysia Resort. We will have drive out there to get it. I can either go and pick you up at Likely or you can come with me. It's about a 45 minute boat ride from Elysia to Hazeltine Creek area.

From: Weir, David J FLNR:EX

Sent: Tuesday, September 23, 2014 8:13 AM

To: Dean, Sharon GCPE:EX; Fenwick, Leigh-Ann ENV:EX; Hoffos, Robin FLNR:EX; Henley, Margaret TRAN:EX; Bunce, Hubert ENV:EX; Stolar, Harold B FLNR:EX

Cc: Williston, Lee X FLNR:EX; XT:Carpenter, Penny FLNR:IN

Subject: Mount Polley Update on Quesnel Lake Clean up

Please find the attached information for the record and in preparation for the boat trip on Sep 29th 2014.

David Weir

Water Section Head,

Ministry of Forest Lands and Natural Resource Operations Williams Lake , BC

David.J.Weir@gov.bc.ca<mailto:David.J.Weir@gov.bc.ca>

(250) 398 4924

Cell 250 267-5925



September 15, 2014

Ministry of Forests, Lands and Natural Resource Operations
Water Stewardship Cariboo Region
400-640 Borland Street
Williams Lake, BC, V2G 4T1

DWB File No 14274-219

Attention: David Weir, PAg – Water Section Head

RE: Addendum #1 and Inspection Report to Mount Polley Tailings Pond Failure Debris Clean-Up in Quesnel Lake

To date the wood debris clean up in Quesnel Lake has been proceeding in accordance with the initial plan submitted by DWB Consulting Services (DWB) on August 20th, 2014. In the clean-up plan there was a list of recommendations to assist in ensuring that environmental considerations were addressed. The following is a summary of those recommendations:

- It is recommended that the entire existing shoreline which was affected by debris accumulations be video recorded before and after the clean-up operations.
- All debris possible, both floating and rafted needs to be removed from Quesnel Lake by the end of October.
- All debris accumulation areas along the foreshore which are flat enough to allow access by light tracked equipment via barge and have been mapped and categorized as heavy or medium will be re-visited to determine beach conditions. Any area of beach that is soft and will lead to significant rutting by machinery will be flagged as 'Machine Free Zones'.
- Any debris accumulation areas along the foreshore that have been mapped and categorized as light or that are too steep for machinery will be removed by hand (no equipment permitted on the beach).
- Once material has been piled on the beach, it will be removed via barge and tug boat with an excavator. Once the beach has been fully cleared of debris, the excavator will prepare to leave the beach, ensuring that any significant ruts or beach disturbances have been fully recontoured to natural grade before re-boarding the barge. Where the beach has been determined to be too soft for machinery, the barge will nose into the shore and the ramp will be lowered to the foreshore.
- Mitchell Bay has been identified by MFLNRO as an area of special concern due to the presence of shore spawning kokanee. MFLNRO has identified a critical spawning period for kokanee starting mid-September in this area. All boating/barging activities along the near shore area in



Mitchell Bay need to be completed before this time period to ensure that spawning kokanee populations are not affected.

- While barging woody debris down the lake, all debris will be secured so that it does not fall back into the water. All floating woody debris that is temporarily contained in booms will be barged down the lake in a large boom.
- The debris removal around the mouth of Hazeltine Creek will require extensive works; however no works can proceed until the safety concerns at the upslope tailings dam at Mount Polley are addressed. It is recommended that a second log boom be constructed and left in place until at least next summer for added security during heavy rain events and spring runoff.
- Debris storage at the West Fraser load out will be contained fully within a secured boomed area and anchored to the existing dolphin piles until such time as it can be removed from the water. It is important to conduct a bottom survey before additional debris is stored at this location so that the pre-use condition is known.
- Throughout the debris collection, transport and removal process it is very important that all involved in the clean-up follow general spill prevention and response procedures should a spill be encountered.

DWB has conducted several site inspections during the clean-up effort and has confirmed that the aforementioned recommendations are being followed. The inspections by DWB confirmed the following:

- The entire affected shoreline was video recorded for future comparison
- The crews are working hard at trying to ensure that all floating debris will be removed by the end of October; however there have been safety delays around Hazeltine Creek
- Beach conditions have been mapped and identified where it is appropriate for heavy equipment to access
- Beaches where equipment access is not possible or will cause environmental damage have only been accessed by labour crews working by hand
- To date all woody material that has been collected has been removed by barge or tug, with a small amount scattered and placed above the HWM of the lake.
- All works have been completed at Mitchell Bay as the highest priority area due to potential spawning kokanee
- All debris has been secured during transport and there has been no reported loss of smaller debris during transport
- Works are well underway at Hazeltine Creek and will be dependent on safety concerns. Significant effort is being applied to the clean up of this area.



- All debris at the load out is contained and is being removed from the water using the constructed ramp and existing shoreline. There has been very little debris escapement from this area. The lake bottom has been video photographed before operations commenced so as to ensure that all debris is removed to pre-use conditions.
- There have been no reported spills to date on the project



Load load out (Aug 27, 2104)



Barge at load out (Aug 27, 2104)



Load load out (Aug 27, 2104)



Mitchell Bay (August 27, 2104)

Proposed Addendum to Initial Environmental Plan:

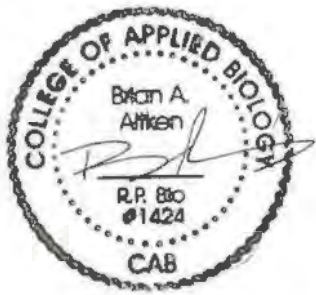
To date there has been no burning of any woody debris for this part of the project (although there has been verbal reports of some local burning on other parts of the lake) which is consistent with the environmental plan/procedures that was initially approved. Moving forward, it has been requested to



burn some of the smaller, isolated wood piles. Now that the fire hazard has dropped, this is considered a viable alternative to transporting all the debris to the load out. In order to burn any pile over 1m in height; a valid fire burning permit must be acquired from the Regional District. Consideration must be given to the venting index on any given day and all burning piles must be closely monitored and be well back from the edge of the timbered shoreline. Burning should only be considered as a last option if the debris cannot be easily removed via tug or barge. All piles must be fully burned or unburnt debris will need to be removed from the foreshore area.

Should you have any questions regarding this report, please do not hesitate to contact the undersigned at your convenience.

Sincerely,



Brian Aitken, RPBio, PAg, CPESC
Corporate Environmental Manager

Cc Penny Carpenter (Eaglecrest), Russel Gibson (Imperial Metals), Robin Hoffos (MFLNRO)
and Lee Williston (MFLNRO)

Ministry of Forests, Lands and Natural Resource Operations
Water Stewardship Cariboo Region
400-640 Borland Street
Williams Lake, BC, V2G 4T1

DWB File No 14274-219

Attention: David Weir, PAg – Water Section Head

RE: Prescription for Rehabilitation of Lakeshore at Mouth of Hazeltine Creek

On Monday September 29th, Brian Aitken of DWB Consulting Services (DWB) attended a site inspection of the woody debris clean-up effort in Quesnel Lake, resulting from tailings pond breach at Mount Polley Mine Site. Staff from Mount Polley and Ministry of Forests, Lands and Natural Resource Operations attended the inspection as well and conducted a boat tour of all impacted areas in Quesnel Lake. Clean up the woody debris within the lake was proceeding well but taking longer than expected. Loose wood had been piled in all portions of the lake and the highest priority areas along Mitchell Bay also had all the wood removed from the foreshore as per the Environmental Plan prepared by DWB (August 20, 2014). The next highest priority area was at the mouth of Hazeltine Creek where much of the wood had already been removed. Final clean-up efforts at Hazeltine creek exposed an area of the foreshore that had been heavily eroded by the initial event (figure 1). The purpose of this report is to address that slope in an environmentally appropriate manner to prevent further erosion from occurring while protecting fish and fish habitat in Quesnel Lake.



Figure 1 – Confluence of Hazeltine Creek and Quesnel Lake where lakeshore erosion was noted



The slope in question is a few hundred meters long and the bank is 2-3m in height and consists of fine grained soils with roots protruding from the bank (photos 1 and 2). Previously this area was an old cut block and Hazeltine Creek flowed into Quennel Lake several hundred meters to the north of this location. When the tailings pond breached, it caused Hazeltine Creek to erode and change its course at the confluence of the lake. The area in question has been impacted by this erosion and has presented an area of the foreshore where it is suspected that continual erosion will occur over the coming years due to the over-steepened slope and exposed soils. To mitigate this concern, the following remediation prescription is recommended.



Photo 1 – Quesnel Lake foreshore adjacent to the mouth of Hazeltine Creek



Photo 2 – Piling of woody debris along foreshore adjacent to the mouth of Hazeltine Creek



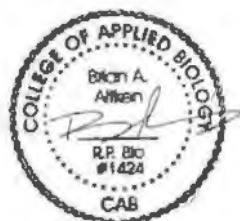
Lakeshore Stabilisation Prescription

Once the wood has been removed from the site as per the protocol in the Environmental Plan prepared by DWB for the project in August, the slopes should be sloped back to a stable angle of repose (2:1). The slopes should only be sloped back to the current water level at the time of construction (ie no digging within the wetted portion of the lake). The slopes will need to be well graded and free of large rocks, roots, clods and sticks. Any material that is removed from the slopes will be graded back above the HWM of the lake, taking care to avoid covering existing vegetation where possible. Once the slopes are prepared, they shall be seeded with either annual rye or fall rye at 75 kg/ha and then covered with rolled erosion control matting (REM). The REM shall consist of all natural 100% biodegradable products consisting of coir, burlap or coconut fibre and shall not have any poly or plastic components impregnated in the matting as this has found to entangle fish when it is submerged. The matting must be installed as per manufacturer specifications. It is imperative that the matting be anchored in a trench at both the top and the bottom of the slope and the matting be stapled to the slope with good ground contact as per the following specification sheet.

Once the REM has been installed, seed all exposed soils above the HWM where soil has been graded. After all equipment has been removed, it is recommended that the slope and surrounding area be staked with live willow and cottonwood cuttings. The timing for harvesting and planting of these cuttings is appropriate due to the onset of fall conditions. All cuttings will be harvested locally, outside of the riparian area of the lake and installed as per the specification sheet attached following this letter. Stake the matting at a density of approximately 1 stake/m² of REM and ensure that that a minimum of 2/3 of the stake is below the ground level. Install stakes from the top of the bank down to the current water level. Even though these may be submerged for much of the year and may not grow, they will provide additional anchoring of the matting so that it does not slide off the slope when the water rises. Any stakes which do germinate will provide additional soil stability, cover for fish and organic inputs into the lake once they grow larger. DWB can assist in this matter if additional site expertise is required.

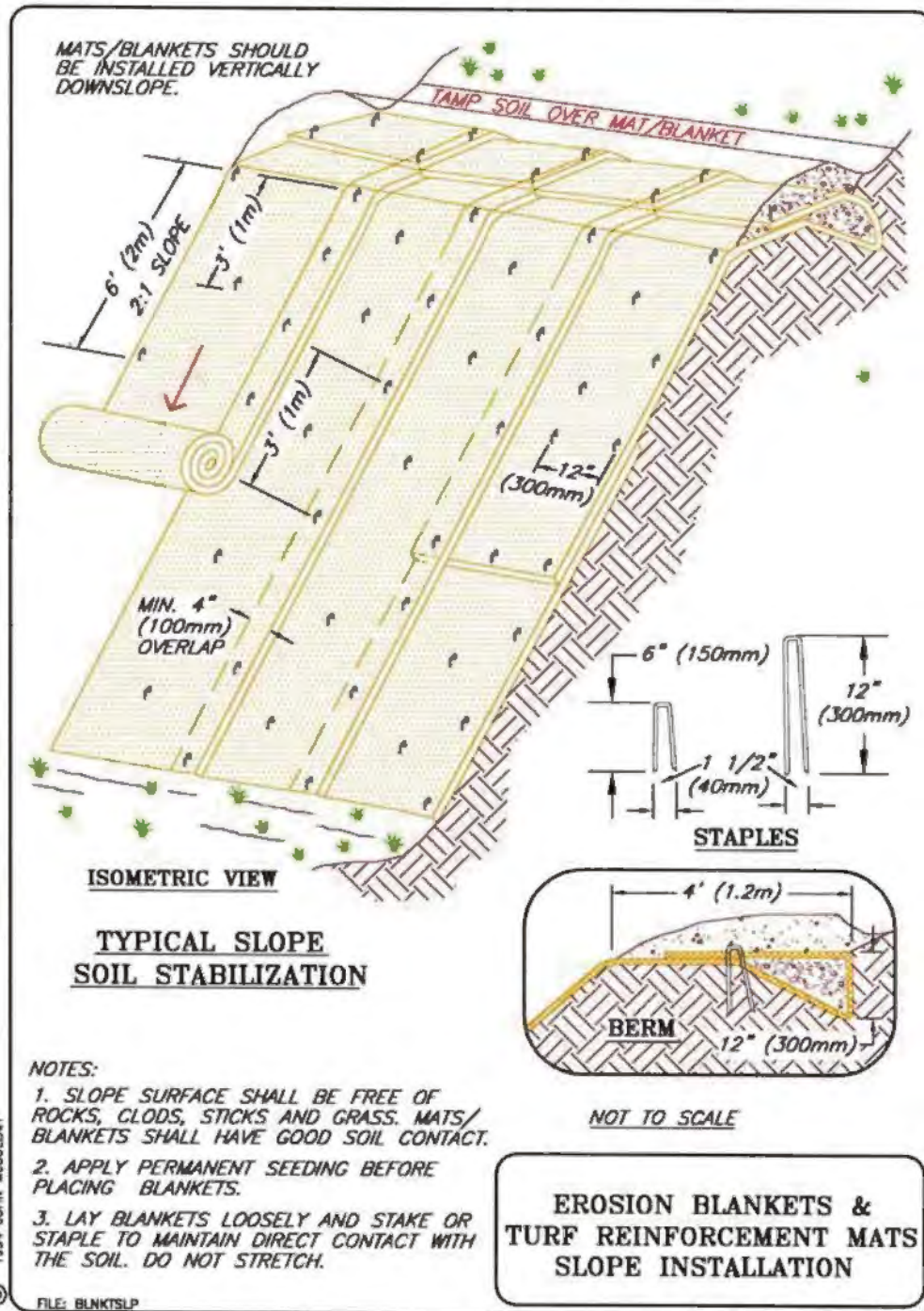
Should you have any questions regarding this report, please do not hesitate to contact the undersigned at your convenience.

Sincerely,

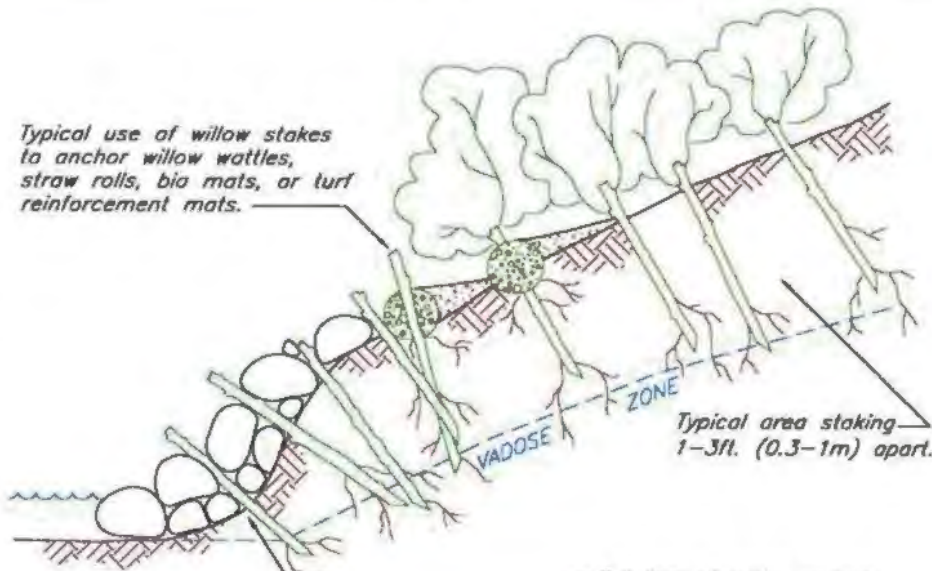


Brian Aitken, RPBio, PAg, CPESC
Corporate Environmental Manager

Cc Penny Carpenter (Eaglecrest), Russel Gibson (Imperial Metals)

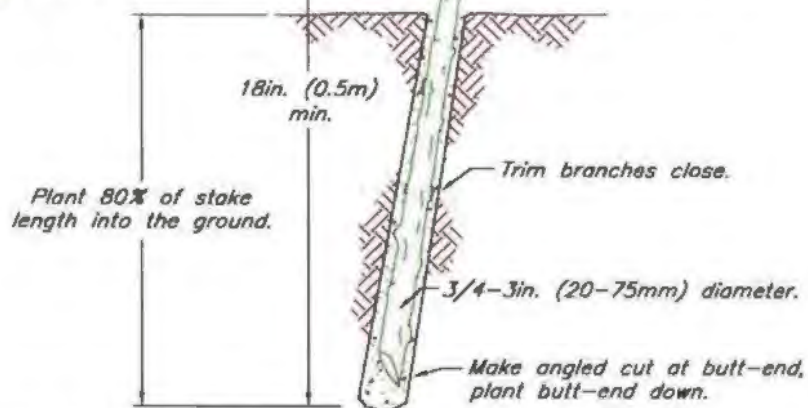


Typical use of willow stakes to anchor willow wattles, straw rolls, bio mats, or turf reinforcement mats.



Typical area staking—1–3ft. (0.3–1m) apart.

Typical – drive or plant willow stakes through openings in riprap or gabions.



NOTES:

1. Harvest and plant stakes during the dormant season.
2. Use healthy, straight and live wood at least 1 year old.
3. Make clean cuts and do not damage stakes or split ends during installation, use a pilot bar in firm soils.
4. Soak cuttings for 24 hours (min.) prior to installation.
5. Tamp the soil around the stake.

LIVE STAKING AND JOINT PLANTING

© 2000 JOHN McCULLAH
FILE: LVSTJTPL

Weir, David J FLNR:EX

From: Butler, Len ENV:EX
Sent: Tuesday, August 5, 2014 1:19 PM
To: Cameron, Kevin J FLNR:EX; Hupman, C Bruce MEM:EX; Weir, David J FLNR:EX; Stewart, Rodger W FLNR:EX
Subject: RE: Mt Polly

Kevin
The COS and mines are investigating as we speak. Our MIU section is taking the lead and Staff Sgt Kelly Dahl is media contact. I will forward your email to SS Dahl.
Len

From: Cameron, Kevin J FLNR:EX
Sent: Tuesday, August 5, 2014 12:48 PM
To: Hupman, C Bruce MEM:EX; Weir, David J FLNR:EX; Butler, Len ENV:EX; Stewart, Rodger W FLNR:EX
Subject: Mt Polly

Not sure how involved our agencies are in regard to the Mt. Polly incident but if there are any inspection/investigation assistance C&E can provide, let me know and I'll make the arrangements. Cheers

Kevin Cameron,
Regional Manager Compliance and Enforcement Branch
Cariboo Region
Ministry of Forests, Lands and Natural Resource Operations

Phone: (250) 395-7878
Cell: (250) 267-4380

Weir, David J FLNR:EX

From: Weir, David J FLNR:EX
Sent: Tuesday, September 30, 2014 1:14 PM
To: Vanderburgh, Ken FLNR:EX; Stolar, Harold B FLNR:EX; Fenwick, Leigh-Ann ENV:EX
Cc: Bunce, Hubert ENV:EX; Demchuk, Tania MEM:EX
Subject: RE: Mine mgmt as prime contractor

What time? The water act order is the agreement. At some point in the future a water licence application for sediment control purposes with a PCL for all the works would be applied for a total flow volume.

The precedent was created with Teck Coal in Cranbrook and the Selenium treatment licences.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Vanderburgh, Ken FLNR:EX
Sent: Tuesday, September 30, 2014 1:03 PM
To: Stolar, Harold B FLNR:EX
Cc: Weir, David J FLNR:EX
Subject: RE: Mine mgmt as prime contractor

Harold, you may want to talk to David about this. We may have an authorization role

From: Stolar, Harold B FLNR:EX
Sent: Tuesday, September 30, 2014 1:01 PM
To: Vanderburgh, Ken FLNR:EX
Subject: RE: Mine mgmt as prime contractor

Are you wanting to sit in on the call with Tom, he is available this afternoon. I think the number one question I have is, what agency is approving or authorizing the Hazeltine Creek rehab plan, is it MEM or Environment?

Inspiring Stewardship through Respectful Conversation

Harold

From: Vanderburgh, Ken FLNR:EX
Sent: Tuesday, September 30, 2014 11:05 AM
To: Stolar, Harold B FLNR:EX
Subject: RE: Mine mgmt as prime contractor

Agree. Can you follow up with Tom?

From: Stolar, Harold B FLNR:EX
Sent: Tuesday, September 30, 2014 11:03 AM
To: Vanderburgh, Ken FLNR:EX
Subject: FW: Mine mgmt as prime contractor

I think we should chat with Tom Jackson, our provincial safety lead. As I'm not sure this is something we commonly do.

Inspiring Stewardship through Respectful Conversation

Harold

From: Demchuk, Tania MEM:EX
Sent: Tuesday, September 30, 2014 7:57 AM
To: Clarke, Bruce WCB:EX
Cc: Stolar, Harold B FLNR:EX; Vanderburgh, Ken FLNR:EX
Subject: RE: Mine mgmt as prime contractor

Good Morning Bruce,

I understand from Cheryl Pocklington that WorkSafe BC requires a letter of agreement to be in place between the land owner and prime contractor working in the area in accordance with your regulations. The impacted area in question is on Crown Land.

Cheryl has had previous communication with Ken Vanderburgh (Director) and Harold Stolar (Resource Manager) in the Williams Lake office for the Ministry of Forests, Lands and Natural Resource Operations. Harold can be reached at 250-398-4372, and both are cc'd here. I am hoping that you can connect with them to discuss the required agreement. If you had an example to share, that would likely be helpful.

For the mine, the mine manager is your primary contact. Dale Reimer can be reached at 250-790-2600 or 250-305-8530 (cell).

Hopefully this is helpful and will put you in touch with the appropriate people. In Cheryl's absence, please don't hesitate to contact me if you require follow-up help from our end.

Regards,
Tania

Tania Demchuk, MSc, PGeo
Senior Environmental Geoscientist
Mines and Mineral Resources Division
Ministry of Energy and Mines
250-952-0417

From: Pocklington, Cheryl M MEM:EX
Sent: Monday, September 29, 2014 4:30 PM
To: Clarke, Bruce WCB:EX
Cc: Demchuk, Tania MEM:EX
Subject: Mine mgmt as prime contractor

Hello Bruce,
Further to your phone message regarding the naming of a prime contractor in the area off the Mount Polley mine-site, Tania Demchuk will be following up with you for more details and can then facilitate liaising with the mine. I will be on holidays until Oct 9.

Regards,
Cheryl Pocklington

Weir, David J FLNR:EX

From: Weir, David J FLNR:EX
Sent: Tuesday, September 30, 2014 4:29 PM
To: Wenham, Logan GCPE:EX
Cc: Stolar, Harold B FLNR:EX
Subject: RE: REVIEW/APPROVE: IN on Mount Polley

s.13

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake, BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Wenham, Logan GCPE:EX
Sent: Tuesday, September 30, 2014 4:09 PM
To: Weir, David J FLNR:EX
Cc: Stolar, Harold B FLNR:EX
Subject: REVIEW/APPROVE: IN on Mount Polley

Hi David:

As discussed, attached is my first draft of an Issues Note detailing FLNRO's involvement on the Mt. Polley tailing pond breach. As noted earlier, I've tried to keep this focused on FLNRO direct responsibilities, s.13
s.13

Can you please review/approve to ensure I have this information correct? Once you are OK with it, I will move it up to Ken.

Harold – David mentioned you would know more about the FSR section of this note. Can you look at that in particular and let me know if I've characterized it correctly?

If I should be asking someone else on either file prior to moving it up to Ken, please let me know and I'll move it there directly once I have your thoughts. That lets me keep some version control on the document as I move it along.

Thanks for your assistance!

Logan Wenham
Senior Public Affairs Officer
Ministry of Forests, Lands and Natural Resource Operations
Phone: (250) 953-3675



Mount Polley Mining Corporation

IMPERIAL METALS CORPORATION

September 10, 2014

Ministry of Environment
Ministry of Energy and Mines
Ministry of Forests, Lands and Natural Resource Operations

**Re: REVIEW OF INTERIM MEASURES BEING IMPLEMENTED FOR
POLLEY LAKE DRAW-DOWN**

Dear Sirs,

As you are aware from our correspondence of August 13, 2014, Mount Polley Mining Corporation (MPMC) have been reducing the water level of Polley Lake behind a plug formed from the Tailings Storage Facility (TSF) Breach of August 4, 2014. This dewatering was deemed necessary by our engineering advisors, BGC Engineering Inc. and is consistent with an order under the *Water Act*.

As you are no doubt aware, the process of dewatering Polley Lake has resulted in the discharge of turbid water into Quesnel Lake. We are concerned that these actions may conflict with other statutory obligations. MPMC has been working expeditiously towards developing an Erosion and Sediment Control Plan (ESCP) for Hazeltine Creek which we hope will reduce the sediment loads into Quesnel Lake as we continue to reduce the water level of Polley Lake. We are seeking your direction to assist us in confirming or revising our present actions.

At present, Polley Lake is approximately 1.3 m above its natural water level and our engineers are concerned that this might pose a safety and property risk. In particular, they are concerned that the stability of the sediment plug could be comprised by:

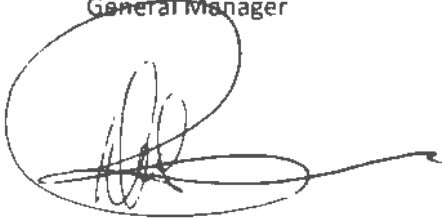
- Internal erosion caused by seepage of water through the sediment plug.
- Erosion from external surface water flow onto the sediment plug leading to downcutting.
- Because fall rains are expected to add to Polley Lake, the dewatering of the lake remains necessary to create freeboard in advance.

In these circumstances, we are concerned that continuing with our dewatering programs to fulfill certain regulatory requirements may result in non-compliance with other current statutory

obligations. Given that we have been working with you with respect to our response programs, we respectfully request, on an urgent basis, that you provide us with clear direction as to the actions we are taking.

Mount Polley Mining Corporation

Dale Reimer
General Manager

A handwritten signature in black ink, consisting of a large, stylized 'D' followed by a horizontal line and a small flourish.

From: Katie McMahan <kmcmahan@mountpolley.com>
Sent: Friday, October 31, 2014 4:44 PM
To: Bunce, Hubert ENV:EX
Cc: Zacharias-Homer, Christa ENV:EX; Hoffman, Al MEM:EX; Jack Love; Dale Reimer; Colleen Hughes; Metcalfe, Shelley ENV:EX; McGuire, Jennifer ENV:EX; 'b.sellars@xatsull.com'; 'Chief Ann Louie'; 'Aaron Higginbottom'; 'Julia Banks'; Steve Robertson; Demchuk, Tania MEM:EX; 'Pierre Stecko (pstecko@minnow.ca)'; Green, Jack E ENV:EX; Brian Kynoch; Don Parsons; Art Frye; 'Johnson, Gordon'; Bellefontaine, Kim MEM:EX; Howe, Diane J MEM:EX; 'trevor.mcconkey@snclavalin.com'; 'Jancicka, Erik (erik.jancicka@snclavalin.com)'; Weir, David J FLNR:EX; Fenwick, Leigh-Ann ENV:EX; 'Langlin@imperialmetals.com'; Halls, Lori D ENV:EX; Alethea Andy; 'Paslawski, Janice (Janice.Paslawski@snclavalin.com)'; Epps, Deb ENV:EX; Sabine Goetz
Subject: Weekly Tailings Breach Update - October 31, 2014
Attachments: MPMC Weekly Post-Breach Report October 22- 28, 2014_Full Report.pdf

Hi Hubert,

Please find attached the weekly post-TSF Breach update for the October 12 ~ 28, 2014.

Happy Halloween,

Katie McMahan, P. Ag

Environmental Technologist
Mount Polley Mining Corporation
Phone: (250) 790-2215 ext. 2120
Email: kmcmahan@mountpolley.com



Mount Polley Mining Corporation

an Imperial Metals company
Box 12 • Likely, BC V0L 1N0 • T 250.790.2215 • F 250.790.2613

October 31, 2014

Ministry of Environment
Mining Operations Environmental Protection
2080 Labieux Rd.
Nanaimo, BC
V9T 6J9

WEEKLY TSF BREACH MONITORING REPORT – WEEK OF OCTOBER 22 – 28, 2014

Water Management and TSF Works

Polley Lake Dewatering	<p>Polley Lake level elevation = 921.77 m</p> <p>Because the lake water level is within its natural range, no pumping from Polley Lake to Hazeltine Creek occurred this week. Temporary stoppage of pumping helped to accommodate downstream restoration works.</p>
Breaches	<p>No breaches of the water management system containing water flow from the Tailings Storage Facility (TSF) occurred this week.</p>
TSF and Water Management Structures	<p>Construction of the following works is complete:</p> <ul style="list-style-type: none"> • The Polley Lake plug access road. • The Central Collection Sump. • The Breach Pond. • Upstream 1 and 2 sumps, including installation of the Slurry 1 pump. <p>All water from TSF water collection systems is currently transferred to Springer Pit via the Central Collection Sump. The only exception is water from the Breach Pump which is transferred to the Till Borrow Pit to allow settling of suspended solids prior to being transferred to the Central Collection Sump.</p> <p>Updates on additional projects are as follows:</p> <ul style="list-style-type: none"> • The ditch from the Breach Pond to the Till Borrow Pit is approximately 75% complete. • The road to the Till Borrow Pit, which will provide access for buttress work along the Perimeter Embankment and allow restoration materials to be hauled to Hazeltine Creek, is almost complete. Construction will be temporarily stopped until geotechnical drilling in the road right of way is finished. <p>All structures referenced are shown in Figure 1. This figure also shows areas along the Perimeter Embankment that are scheduled for stripping and foundation preparation, which is required for buttressing of the embankment. .</p>



Figure 1. Tailings Storage Facility construction works

Sediment and Erosion Control Measures

Silt Curtain	The silt curtain attached to the log boom at the mouth of Hazeltine Creek continues to remove sediment from the water column. The curtain is in good condition.
Sediment Control Works	<p>Current sediment and erosion control works underway on lower Hazeltine Creek (below the Ditch Road) include:</p> <ul style="list-style-type: none"> • Construction of the Upper and Lower Sedimentation Ponds. • Screening of select excavated materials to obtain suitable aggregate sizes for future creek rehabilitation. • Collection and mulching of woody debris. • Re-grading and landscaping of select areas. • Installation and maintenance of silt control measures including silt fences and straw bales. <p>Environmental construction monitoring is occurring continuously during all activities. No change in turbidity in the water in Hazeltine Creek has been detected as a result of the construction.</p> <p>Design work on the sediment and erosion control plan for upper Hazeltine Creek is ongoing.</p>

Routine Water Quality Monitoring Program

The maps on pages 1 – 8 of Figure 5 (attached) show locations that have been sampled as part of the water quality monitoring program. The table below is a summary of the current water quality monitoring program; however, unsafe weather and lake conditions result in occasional lake samples not being completed.

Frequency	Area	Sample Locations
Daily	Quesnel River	QUR-1
	Hazeltine Creek	HAC-01a
Weekly	Quesnel Lake	QUL-2a, QUL-18, QUL-21a, QUL-40a, QUL-66, QUL-66a, QUL-112/QUL-112a, QUL-119, QUL-120/QUL-120a, QUL-zoo-8/QUL-zoo-8
	Hazeltine Creek	HAD-1 (when pumping), HAC-05
	Polley Lake	P1, P2POL-5, POI-6 (field parameter profiles only)
2x/week	Quesnel Lake	QUL-79
Time/weather permitting	Quesnel Lake	QUL-2, QUL-21, QUL-31a, QUL-87, QUL-119

Note that data has not been appended to this report. Changes to the reporting method are in progress.

QA/QC

A flow chart has been provided as Appendix A which shows how data is being managed and processed to maintain quality control.

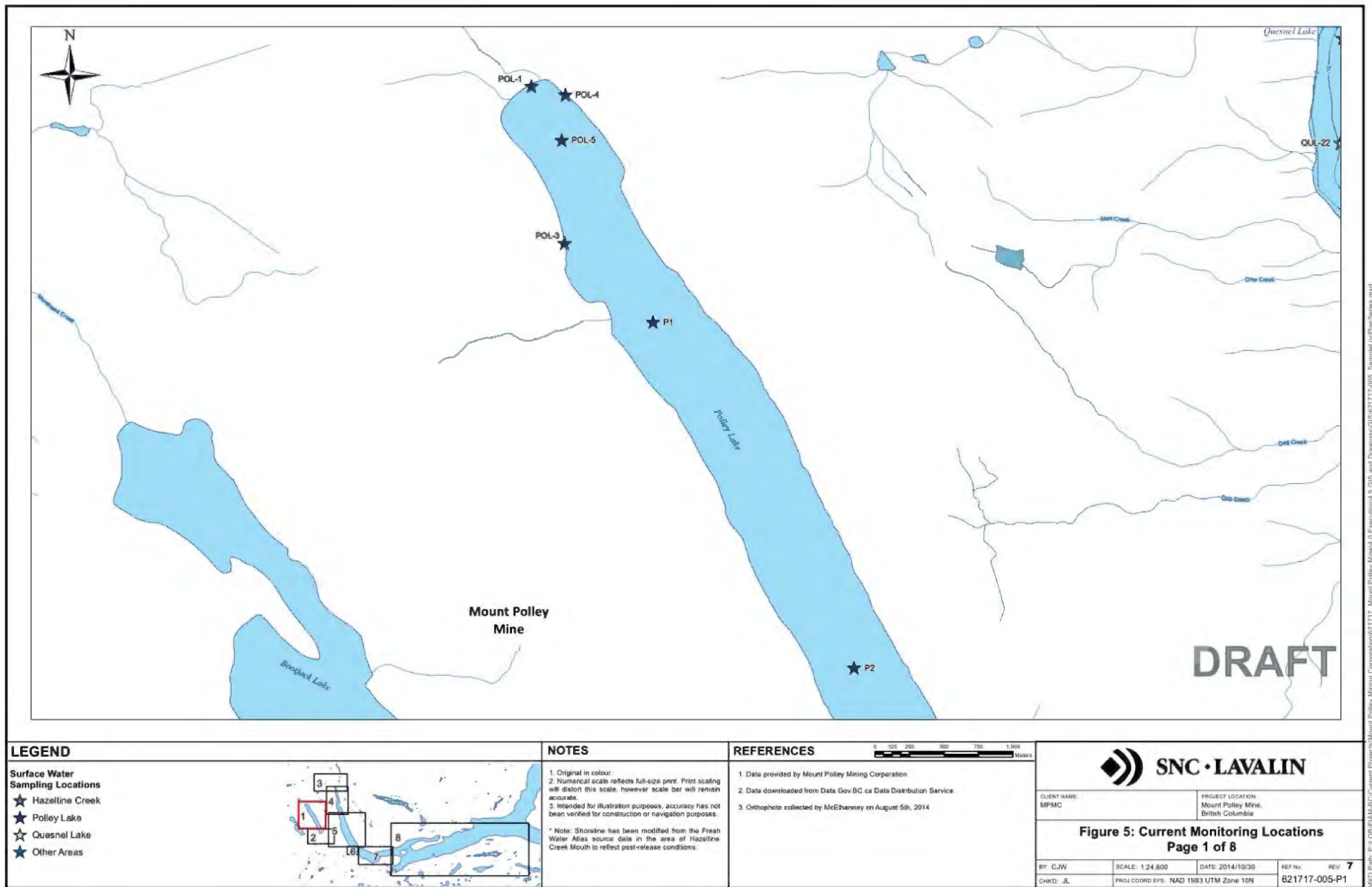
ATTACHMENTS

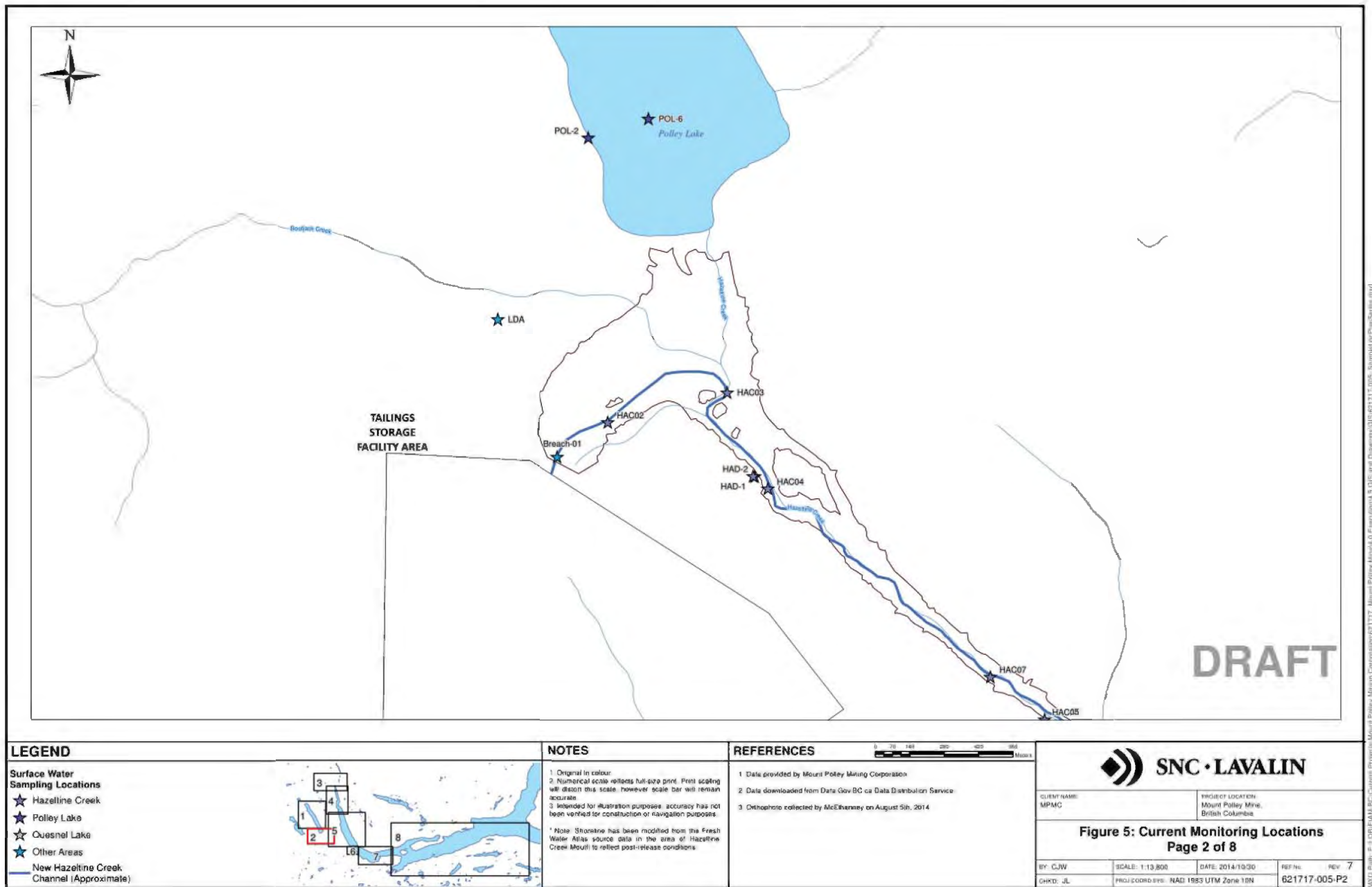
Drawings:

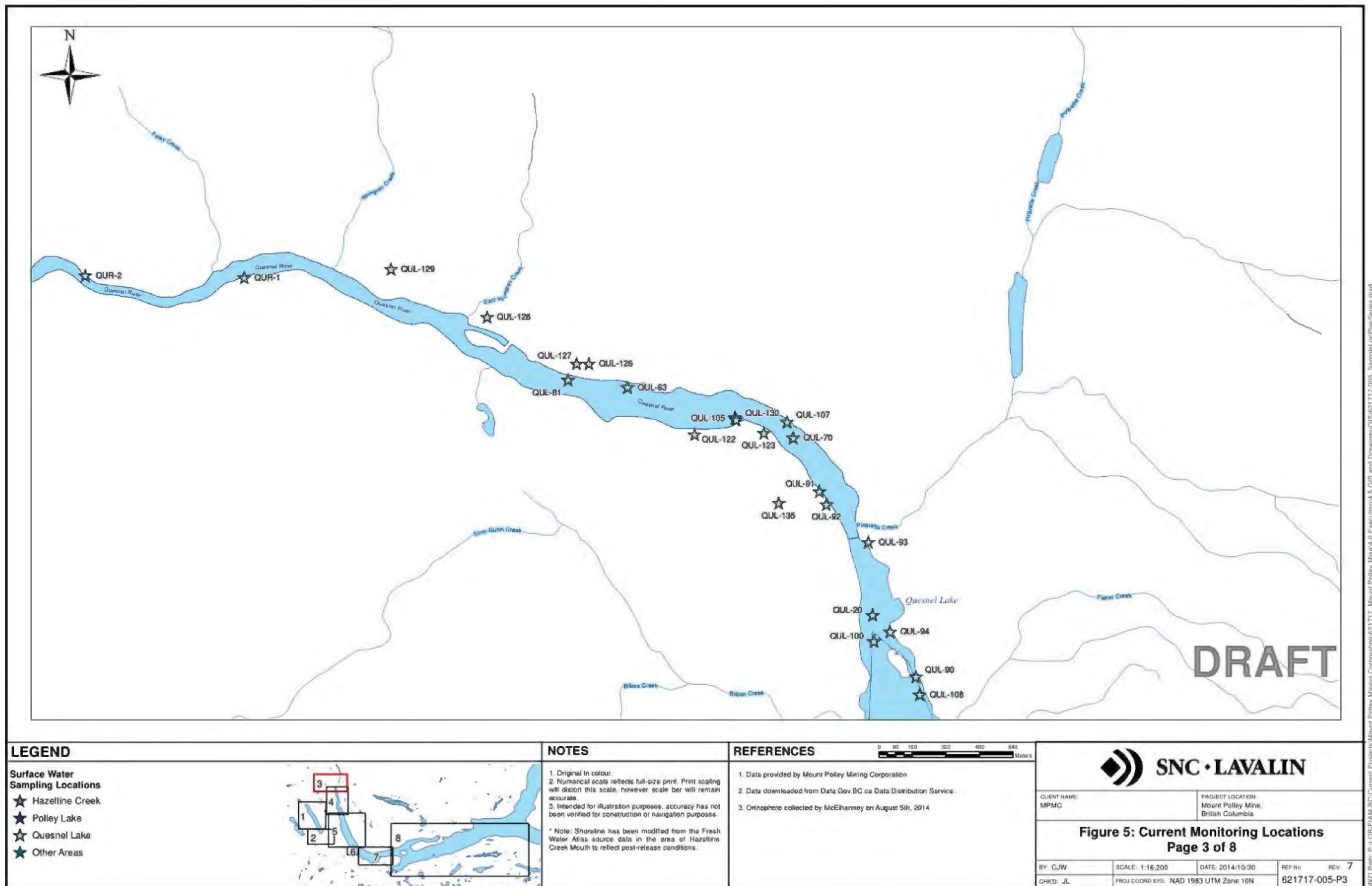
612717-005-P1 through 612717-005-P8: Current Monitoring Locations (Figure 5)

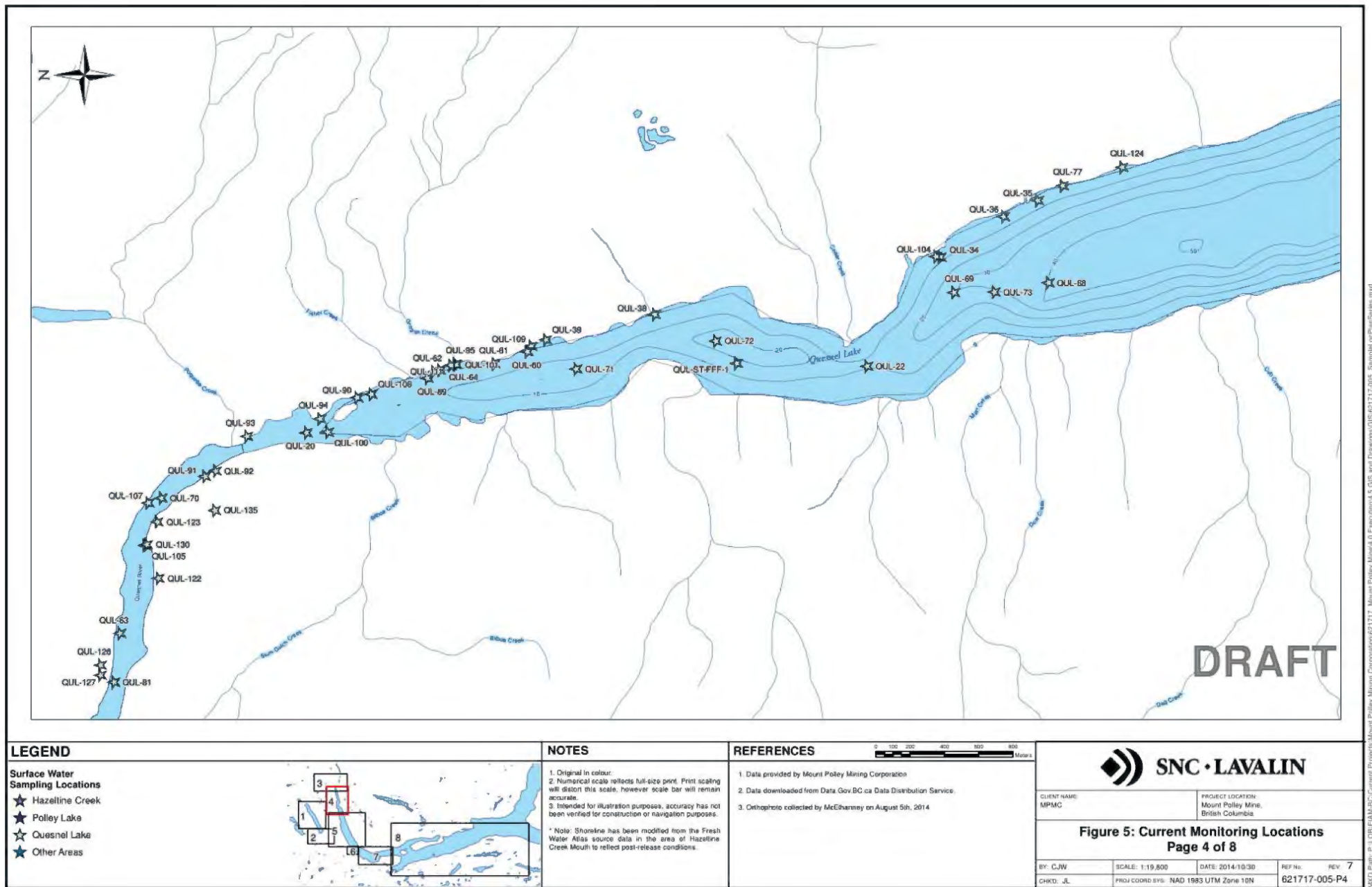
Appendices:

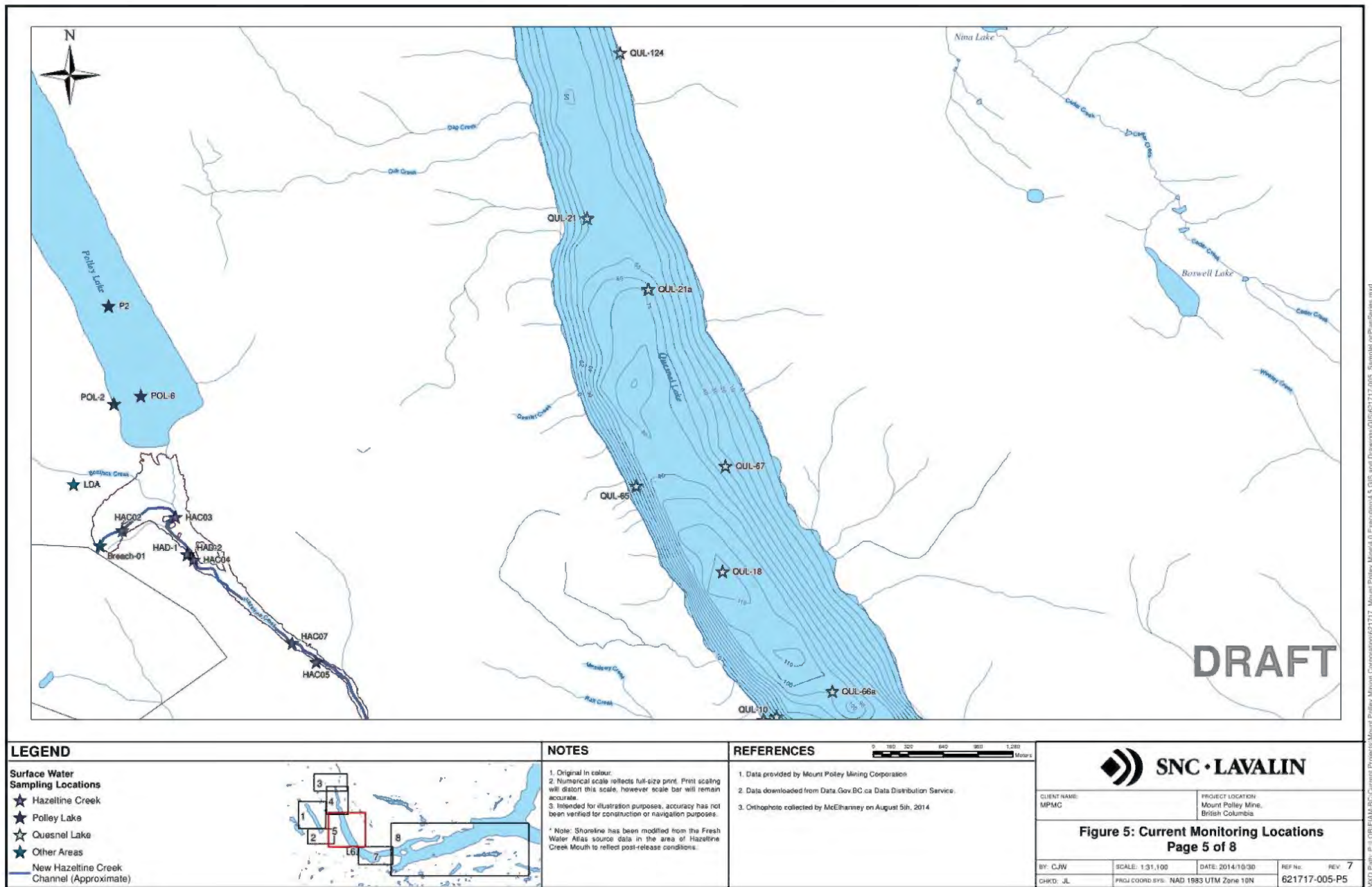
Appendix A: QA/QC Data Management Flow Chart

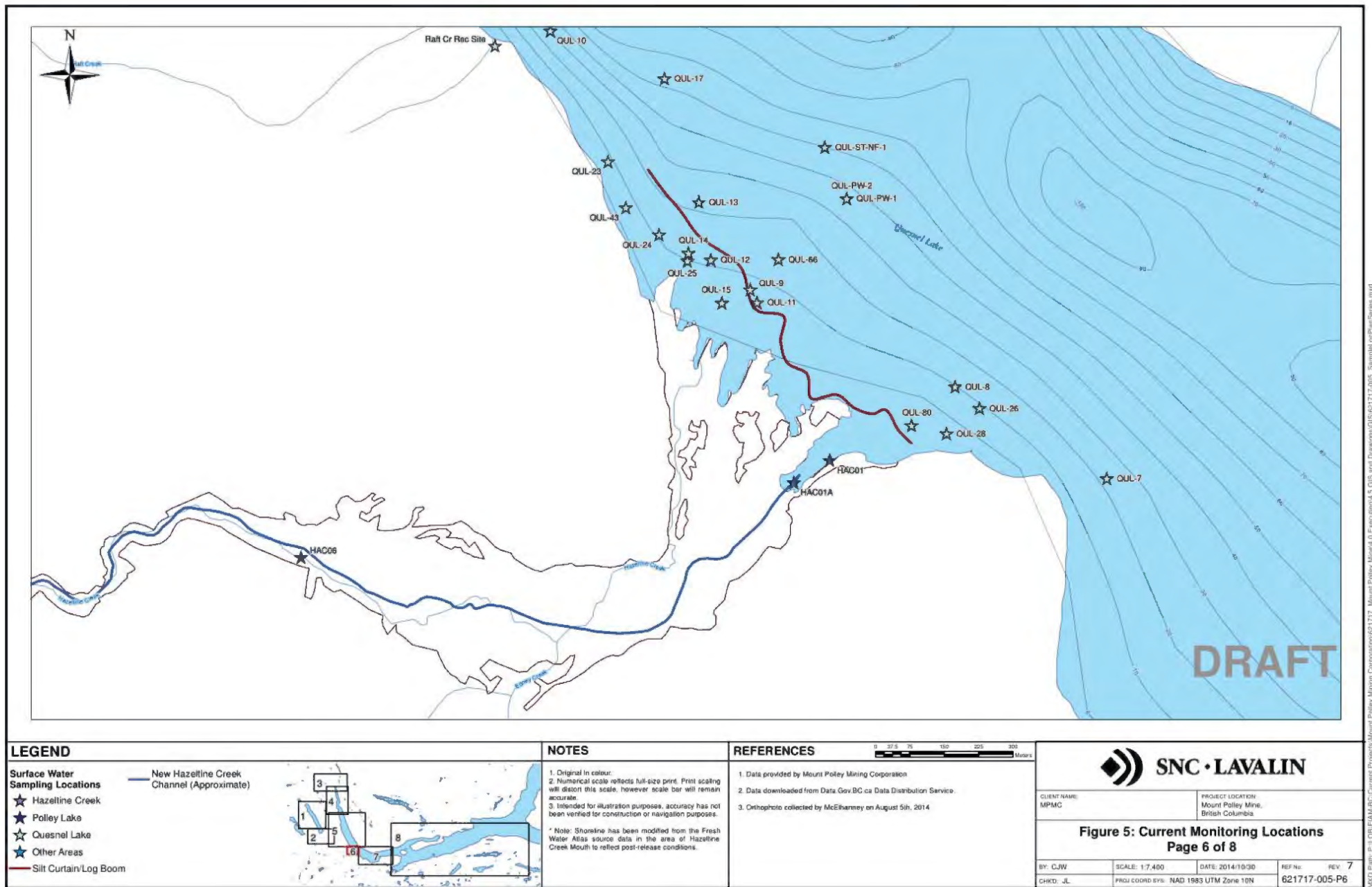


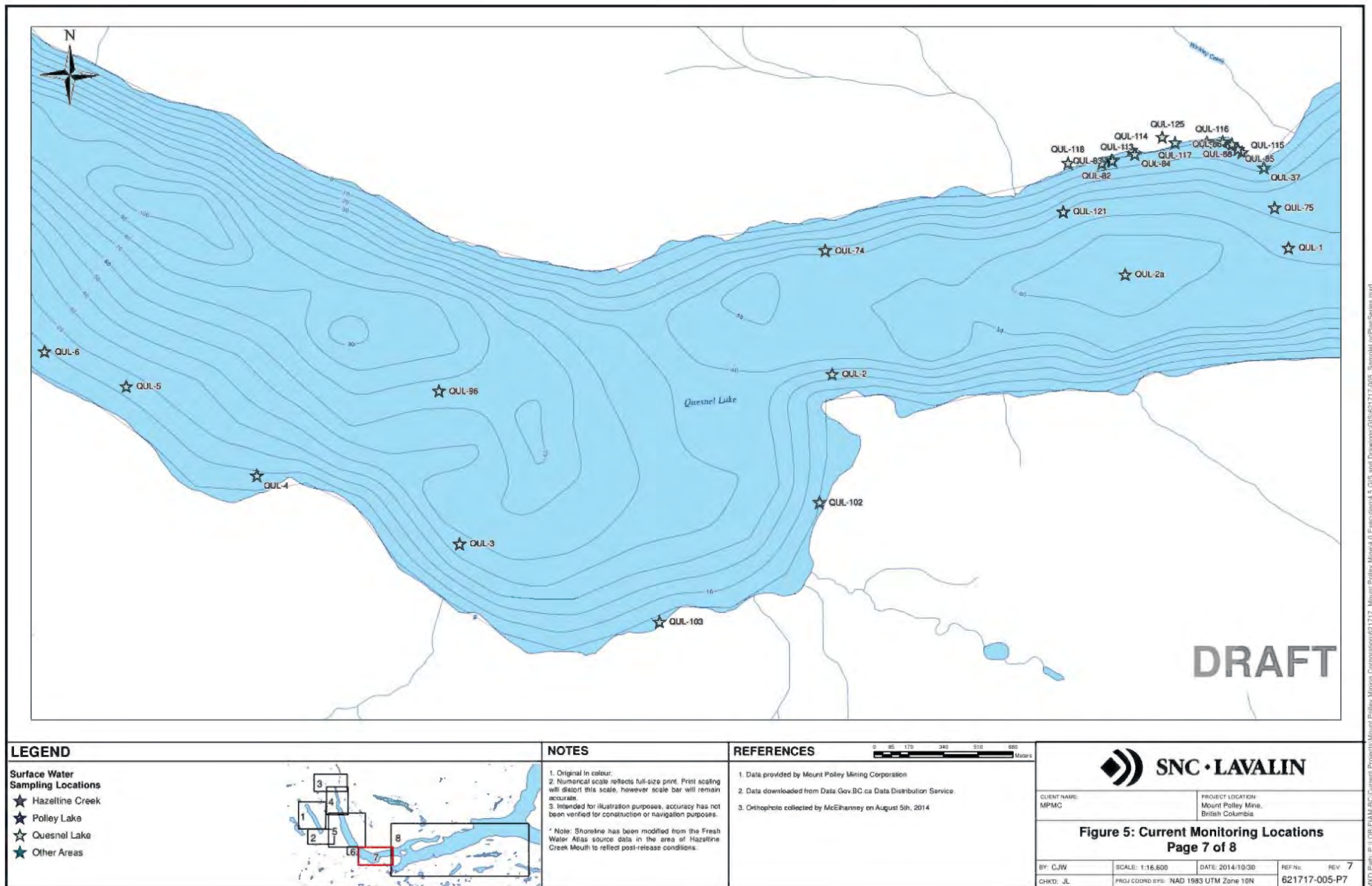




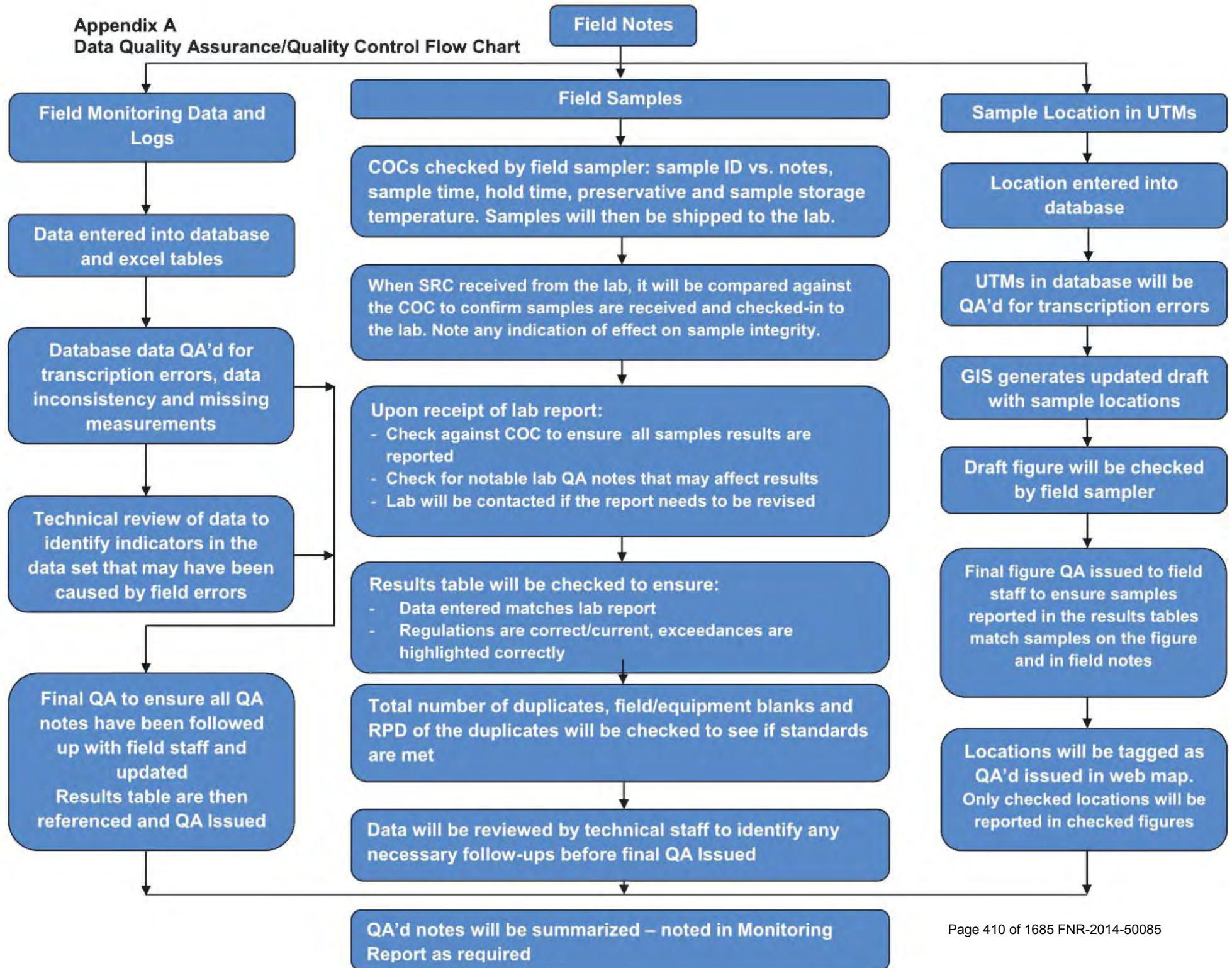








Appendix A
Data Quality Assurance/Quality Control Flow Chart



Appendix A

Data Quality Assurance/Quality Control Flow Chart

Legend

COC – Chain of Custody
GIS – Geology Information System
ID – Identification number
QA – quality assured
RPD - Relative Percent Difference
SRC – Sample Receive Confirmation
UTM - Universal Transverse Mercator

APPENDIX A

Design Drawings



Copyright



Copyright



Copyright



Copyright

Copyright



Copyright



Copyright



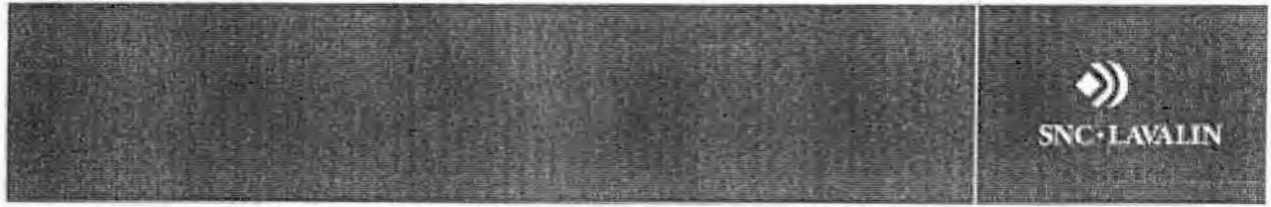
SNC • LAVALIN

Copyright

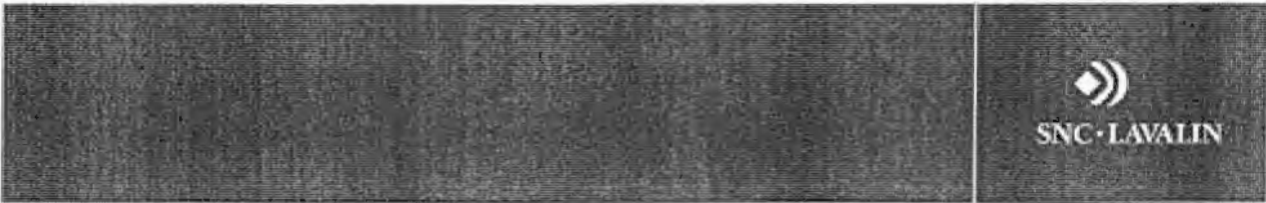


Copyright

Copyright



Handwritten notes in the right margin:
You can't
not all persons
have the same
information
and you can't
have the same
information
for everyone



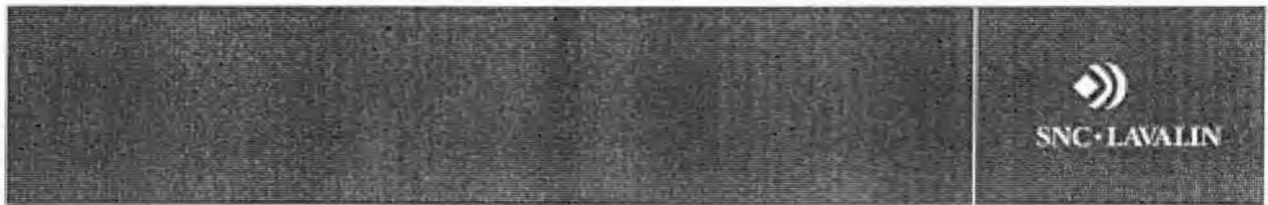
Copyright



Copyright



Copyright



Copyright

Copyright



Copyright



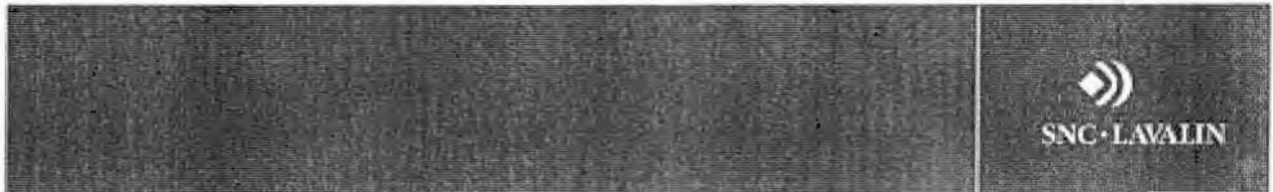
Copyright



Copyright



Copyright



Copyright



Copyright



Copyright



Copyright



SNC • LAVALIN

Copyright



Copyright



Copyright



Copyright



Copyright



Copyright



Copyright



Copyright



SNC-LAVALIN

Copyright



Copyright



Copyright



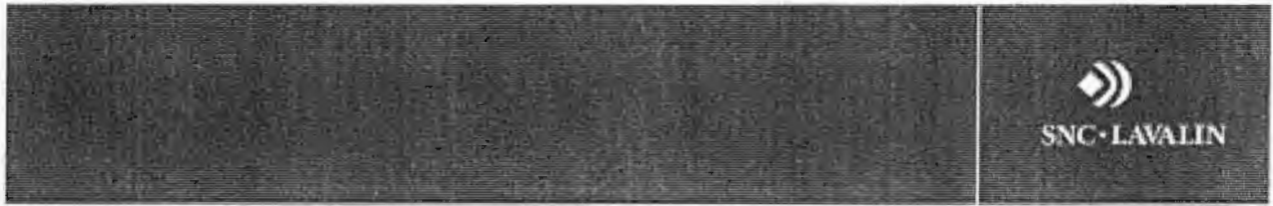
Copyright



Copyright



Copyright



Copyright

mp
?



Copyright



SNC • LAVALIN

Copyright



Copyright



Copyright



Copyright

AUG 14 2019.

→ MIFB SHANNON

MIT LAKE OWNER NOTICED

REGIONAL DISTRICT NOTICED

MT POLLEY CALL →

20-25/hr min

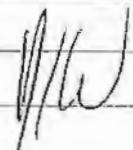
HGRB.D.

DON PATSONS.

(250) 790-2601 ~~→~~

(250) 790-2215

MESSAGE

DON'T STOP BUT ENSURE
PROFESSIONAL OVERSIGHT. 

5243

3043

AUG 15 2018

MET WITH MT LOUGH

→ USE PROFESSIONAL RELIANCE.

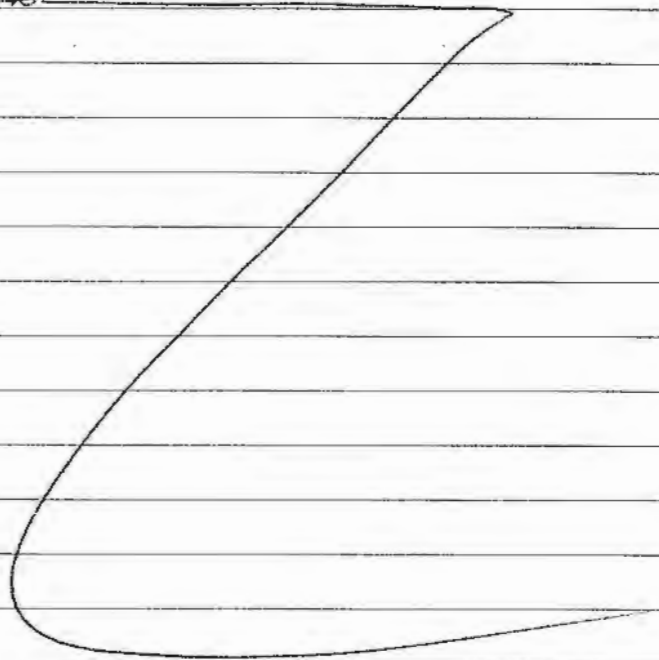
1,57m

→ LIPAR OF PLUG.

(DPO) STEW CART RIGHT →
↑
(250) 851-4892

→ ADRIAN WALL (250) 851-4853 |

STAIN



[FEB 20]

APR 18 2014

→ MINIMUM IMPACT TO FISH HABITAT.

→ SMALL AS POSSIBLE.

→ FORESHORE

→ DESIGN →

→ BIOLOGIST →

ROBIN HOFFOS → MEETING

ACQUIRE EXPLAIN HOW INFORMATION
IS USED.

REGION AT END.

→ CUBAN ONLY REMOVE
MATERIAL FROM EVENT.

→ HAZELTINE CREEK GEO TECH
REVIEW?

→ NO ENDORSEMENT →

→ WF 250 EAST & WEST
2" DOWN.

→ GIA →

→ DEO →
ANDRIAN

AREA?

→ FISH BEHAVIOR

SEP 9 2014

s.22

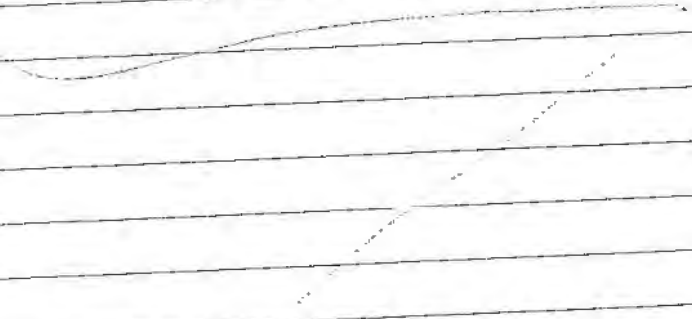
S/R1 Ramps

1900 to 1115 1/4 3/4 in 23 1/2
down on 2nd ramp section - 1/4 in
1115 - 1120 REC NEED TO 2/11/14
→ 1120 - 1125 1/4 3/4 in 23 1/2
You looking at →

→ 1125 - 1130 1/4 3/4 in 23 1/2
→ 1130 - 1135 1/4 3/4 in 23 1/2
→ 1135 - 1140 1/4 3/4 in 23 1/2

1140 - 1145 1/4 3/4 in 23 1/2
→ 1145 - 1150 1/4 3/4 in 23 1/2

→ 1150 - 1155 1/4 3/4 in 23 1/2



SEP 27 2014 ~~SEP 27 2014~~

FIELD BOAT TRIP QUENGL LAKE
MT POLLEY:

- KOKANE SHORE STABILIZATION

- REMOVE DEBRIS MITCHELL BAY

→ HIRE LINE SHIFT TO DEBRIS

REMOVAL ON LAKE NEXT WEEK

→ BACKSCOPE STABILIZE BANK APPROX 7 ft

→ DEBRIS CONTAINED NOT REMOVED

→ SEDIMENT POUNDS ABOUT 1

WEEKS BEHIND FOLLOW UP.

LEE WILLISTON, GARY, RUSS, MYSELF
AND HAROLD. MOTI & COULD
NOT MAKE IT.

[Signature]

Weir, David J FLNR:EX

From: Cameron, Valerie Z FLNR:EX
Sent: Tuesday, August 5, 2014 1:37 PM
To: Weir, David J FLNR:EX; Vanderburgh, Ken FLNR:EX
Cc: Mason, Wenda FLNR:EX; Symonds, Brian FLNR:EX; Bekker, Pieter FLNR:EX
Subject: FW: Water Licence Tables- Polley Creek Area
Attachments: Licence Count for Polley Lake Area.xlsx

Here is a summary of the licences that could be impacted. There are a larger number of water licences in the watershed, but most are on tribs so ok. You can share this info.

Please call me this afternoon after your EOC coord call re: additional information not included below.

Valerie

From: Chapman, Connie FLNR:EX
Sent: Tuesday, August 5, 2014 1:34 PM
To: Cameron, Valerie Z FLNR:EX; Bekker, Pieter FLNR:EX
Subject: Water Licence Tables- Polley Creek Area

Hi Pieter and Valerie,

Below and attached are the tables for the Polley Creek area water licence count.

Consumption Licences

Name	Water Works	Domestic	Bottle Sales	Camps	Irrigation	Work Camps	Total
Quesnel Lake		19	1	1		1	21
Quesnel River	2	2			8		12
Cariboo Lake							0
Cariboo River							0
Polley Lake						1	1
Hazeltine Creek							0
							34

Other Licences

Name	Pulpmills	Dust Control	Mining Processing Ore	Mining Placer	Conserv- Use of Water	Total
Quesnel Lake						0
Quesnel River	1	2		3	2	8
Cariboo Lake		1				1
Cariboo River		1				1
Polley Lake		1	1			2

Hazeltine Creek						0
						12

Connie Chapman | *Water Resource Specialist*
 Water Management Branch
 Ministry of Forest, Lands and Natural Resource Operations
 395 Waterfront Crescent, Victoria, BC
 Office: 250 387-6339
 Email: Connie.Chapman@gov.bc.ca

Consumption Licences

Name	Water Works	Domestic	Bottle Sales	Camps	Irrigation	Work Camps	Total
Quesnel Lake		19	1	1		1	21
Quesnel River	2	2			8		12
Cariboo Lake							0
Cariboo River							0
Polley Lake						1	1
Hazeltine Creek							0
							34

Weir, David J FLNR:EX

From: Penny Carpenter s.22
Sent: Tuesday, August 5, 2014 12:46 PM
To: Weir, David J FLNR:EX
Subject: RE: Mt Polley

Hi David

The Mines Gentleman Steve Rothman will be contacting you regarding the breach of the tailing pond. He will be able to fill you in and maybe it will help the work load so things are not getting duplicated.

Penny Carpenter

From: Weir, David J FLNR:EX [<mailto:David.J.Weir@gov.bc.ca>]
Sent: August-05-14 11:41 AM
To: XT:Carpenter, Penny FLNR:IN
Subject: Mt Polley

As per our discussion

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

Weir, David J FLNR:EX

From: Hamm, Mark FLNR:EX
Sent: Tuesday, August 5, 2014 12:35 PM
To: Vanderburgh, Ken FLNR:EX
Cc: Stolar, Harold B FLNR:EX; Weir, David J FLNR:EX
Subject: Question: Fwd: Permission Request for containment and relocation/removal of log and log debris due to dam breach

Importance: High

Ken, will you contact Penny to give her the go-ahead to start work now, authorisations to be provided later?

Mark

From: Stolar, Harold B FLNR:EX
Sent: Tuesday, August 05, 2014 11:13 AM
To: Hamm, Mark FLNR:EX
Subject: Fwd: Permission Request for containment and relocation/removal of log and log debris due to dam breach

Pretty sure that you have seen this. Not sure who will contact Penny. However I agree we show green light operations now and follow up with paperwork after.

Sent from iPhone

Begin forwarded message:

From: "XT:Carpenter, Penny FLNR:IN" s.22
Date: August 5, 2014 at 10:44:28 AM PDT
To: "Stolar, Harold B FLNR:EX" <Harold.Stolar@gov.bc.ca>
Cc: "Gerry.MacDougal@gov.bc.ca" <Gerry.MacDougal@gov.bc.ca>
Subject: FW: Permission Request for containment and relocation/removal of log and log debris due to dam breach

Dear Mr. Stolar

I have received an email stating that I am to forward you my request as Mike Pedersen is not in his office.

Thank you

Penny Carpenter

From: Penny Carpenter s.22
Sent: August-05-14 10:29 AM
To: 'mike.pedersen@gov.bc.ca'; 'Gerry.Macdougal@gov.bc.ca'; 'Mark.Hamm@gov.bc.ca'
Cc: 'Venos, Gerry FLNR:EX'
Subject: Permission Request for containment and relocation/removal of log and log debris due to dam breach

Dear Mr. MacDougal, Mr. Pedersen and Mr. Hamm;

I am contacting you today in regards to the log debris in Quesnel Lake as a result of the dam breach at Mount Polley.

I have been asked by Mount Polley to get permission to contain and relocate the logs and log debris in Quesnel Lake in order to mitigate any future damage.

I have received written permission from West Fraser to use their reload located on Quesnel Lake as a collection and removal point for the logs and log debris.

Mount Polley is in the progress of flying the experienced tug boat owner operator, whom previously looked after the boom and tug boats at the reload, to view the logs debris and to come up with a strategy to contain and relocate these logs and debris.

Mount Polley would like to move forward as soon as possible as this is a time sensitive matter. Mount Polley requests written permission to contain the logs and log debris and relocate them to the reload and to use the reload as a log/debris collection area and removal point.

Please contact me if you have any questions or concerns. 250-296-0111 and cell 250-303-1475

Thank You

Penny Carpenter

Weir, David J FLNR:EX

From: Weir, David J FLNR:EX
Sent: Tuesday, August 5, 2014 11:41 AM
To: XT:Carpenter, Penny FLNR:IN
Subject: Mt Polley

As per our discussion

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

Weir, David J FLNR:EX

From: Hamm, Mark FLNR:EX
Sent: Tuesday, August 5, 2014 11:12 AM
To: Vanderburgh, Ken FLNR:EX; Venos, Gerry FLNR:EX; Stewart, Rodger W FLNR:EX; Hill, Douglas J FLNR:EX
Cc: Stolar, Harold B FLNR:EX; Trigg, Dirk FLNR:EX; Schafthuizen, Jim FLNR:EX; Pedersen, Mike FLNR:EX; Weir, David J FLNR:EX
Subject: Re: Important request from Mount Polley

Thanks, Ken. I assume nothing further is needed from the district, in this regard at least.

M

From: Vanderburgh, Ken FLNR:EX
Sent: Tuesday, August 05, 2014 11:09 AM
To: Hamm, Mark FLNR:EX; Venos, Gerry FLNR:EX; Stewart, Rodger W FLNR:EX; Hill, Douglas J FLNR:EX
Cc: Stolar, Harold B FLNR:EX; Trigg, Dirk FLNR:EX; Schafthuizen, Jim FLNR:EX; Pedersen, Mike FLNR:EX; Weir, David J FLNR:EX
Subject: RE: Important request from Mount Polley

We will issue an order under Section 9 of the Water Act to remove the material: David Weir is in contact with Polley

From: Hamm, Mark FLNR:EX
Sent: Tuesday, August 5, 2014 10:30 AM
To: Venos, Gerry FLNR:EX; Vanderburgh, Ken FLNR:EX; Stewart, Rodger W FLNR:EX; Hill, Douglas J FLNR:EX
Cc: Stolar, Harold B FLNR:EX; Trigg, Dirk FLNR:EX; Schafthuizen, Jim FLNR:EX; Pedersen, Mike FLNR:EX
Subject: RE: Important request from Mount Polley

Gerry and I spoke with Jim Schafthuizen and he is going to see what authorisation is appropriate and get back to Gerry.

My thinking is that we should give Mt Polley permission now to begin collecting the logs and debris from the lake, before they reach the bridge at Likely. The authorisation may not be in place today but the company has the go-ahead to being salvaging and collecting the wood at West Fraser's reload on Quesnel Lake.

If you have any concerns about that please let me know.

Mark

Mark Hamm, R.P.F.
Resource Manager
Cariboo Chilcotin District
(Williams Lake)
Ministry of Natural Resource Operations

tel 250-398-4399
mob 250-398-0817
fax 250-398-4790
<mailto:Mark.Hamm@gov.bc.ca>

From: Pedersen, Mike FLNR:EX
Sent: Tuesday, August 5, 2014 10:12 AM
To: Venos, Gerry FLNR:EX
Cc: Pedersen, Mike FLNR:EX; Vanderburgh, Ken FLNR:EX; Stolar, Harold B FLNR:EX; Hamm, Mark FLNR:EX; Trigg, Dirk FLNR:EX
Subject: Re: Important request from Mount Polley

Ken may want to connect with MOE and Rodger around the salvage. My thought is they want to get the material before it hits the bridge at Likely.

We are connecting with tenures in Kamloops to see what we need as authorities.

Sent from my iPhone

On Aug 5, 2014, at 10:05 AM, "Venos, Gerry FLNR:EX" <Gerry.Venos@gov.bc.ca> wrote:

I just spoke with Penny Carpenter two minutes ago.
Mount Polley does want to salvage the wood at this time but want permission to contain it to prevent further damage downstream.
She told me that Rick Welke of West Fraser gave them permission to use their reload.

Gerry Venos R.P.F.
Revenue Forester
Cariboo-Chilcotin Natural Resource District
Phone:(250)-398-4406
Fax:(250)-398-4790
E-mail:Gerry.Venos@gov.bc.ca

From: Pedersen, Mike FLNR:EX
Sent: Tuesday, August 5, 2014 9:57 AM
To: Venos, Gerry FLNR:EX
Cc: Stolar, Harold B FLNR:EX; Hamm, Mark FLNR:EX; Vanderburgh, Ken FLNR:EX
Subject: Re: Important request from Mount Polley

Would it be a water salvage permit? Check with Area Tenures Gerry and see what we would need to provide.

Sent from my iPad

On Aug 5, 2014, at 8:38 AM, "Venos, Gerry FLNR:EX" <Gerry.Venos@gov.bc.ca> wrote:

What is kind of permission does Mount Polley need?

Gerry Venos R.P.F.
Revenue Forester
Cariboo-Chilcotin Natural Resource District
Phone:(250)-398-4406
Fax:(250)-398-4790
E-mail:Gerry.Venos@gov.bc.ca

From: Penny Carpenter s.22
Sent: Tuesday, August 5, 2014 8:08 AM
To: Venos, Gerry FLNR:EX
Subject: Important request from Mount Polley

Hi Gerry

I am trying to contact you regarding the dam breach at Mount Polley. Mount Polley is requesting the permission to contain, and remove the log debris from the lakes as soon as possible.

I have been asked to try and get all the required permits/permission for them to move forward with this as soon as possible as the logs have the potential to damage bridges etc,

When you get in will you call me asap. 250-296-0111 OR 250-303-1475.

Thanks Penny

Weir, David J FLNR:EX

From: Vanderburgh, Ken FLNR:EX
Sent: Tuesday, August 5, 2014 11:10 AM
To: Hamm, Mark FLNR:EX; Venos, Gerry FLNR:EX; Stewart, Rodger W FLNR:EX; Hill, Douglas J FLNR:EX
Cc: Stolar, Harold B FLNR:EX; Trigg, Dirk FLNR:EX; Schafthuizen, Jim FLNR:EX; Pedersen, Mike FLNR:EX; Weir, David J FLNR:EX
Subject: RE: Important request from Mount Polley

We will issue an order under Section 9 of the Water Act to remove the material. David Weir is in contact with Polley

From: Hamm, Mark FLNR:EX
Sent: Tuesday, August 5, 2014 10:30 AM
To: Venos, Gerry FLNR:EX; Vanderburgh, Ken FLNR:EX; Stewart, Rodger W FLNR:EX; Hill, Douglas J FLNR:EX
Cc: Stolar, Harold B FLNR:EX; Trigg, Dirk FLNR:EX; Schafthuizen, Jim FLNR:EX; Pedersen, Mike FLNR:EX
Subject: RE: Important request from Mount Polley

Gerry and I spoke with Jim Schafthuizen and he is going to see what authorisation is appropriate and get back to Gerry.

My thinking is that we should give Mt Polley permission now to begin collecting the logs and debris from the lake, before they reach the bridge at Likely. The authorisation may not be in place today but the company has the go-ahead to being salvaging and collecting the wood at West Fraser's reload on Quesnel Lake.

If you have any concerns about that please let me know.

Mark

Mark Hamm, R.P.F.
Resource Manager
Cariboo Chilcotin District
(Williams Lake)
Ministry of Natural Resource Operations
tel 250-398-4399
mob 250-398-0817
fax 250-398-4790
<mailto:Mark.Hamm@gov.bc.ca>

From: Pedersen, Mike FLNR:EX
Sent: Tuesday, August 5, 2014 10:12 AM
To: Venos, Gerry FLNR:EX
Cc: Pedersen, Mike FLNR:EX; Vanderburgh, Ken FLNR:EX; Stolar, Harold B FLNR:EX; Hamm, Mark FLNR:EX; Trigg, Dirk FLNR:EX
Subject: Re: Important request from Mount Polley

Ken may want to connect with MOE and Rodger around the salvage. My thought is they want to get the material before it hits the bridge at Likely.

We are connecting with tenures in Kamloops to see what we need as authorities.

Sent from my iPhone

On Aug 5, 2014, at 10:05 AM, "Venos, Gerry FLNR:EX" <Gerry.Venos@gov.bc.ca> wrote:

I just spoke with Penny Carpenter two minutes ago.
Mount Polley does want to salvage the wood at this time but want permission to contain it to prevent further damage downstream.
She told me that Rick Welke of West Fraser gave them permission to use their reload.

Gerry Venos R.P.F.
Revenue Forester
Cariboo-Chilcotin Natural Resource District
Phone:(250)-398-4406
Fax:(250)-398-4790
E-mail:Gerry.Venos@gov.bc.ca

From: Pedersen, Mike FLNR:EX
Sent: Tuesday, August 5, 2014 9:57 AM
To: Venos, Gerry FLNR:EX
Cc: Stolar, Harold B FLNR:EX; Hamm, Mark FLNR:EX; Vanderburgh, Ken FLNR:EX
Subject: Re: Important request from Mount Polley

Would it be a water salvage permit? Check with Area Tenures Gerry and see what we would need to provide.

Sent from my iPad

On Aug 5, 2014, at 8:38 AM, "Venos, Gerry FLNR:EX" <Gerry.Venos@gov.bc.ca> wrote:

What is kind of permission does Mount Polley need?

Gerry Venos R.P.F.
Revenue Forester
Cariboo-Chilcotin Natural Resource District
Phone:(250)-398-4406
Fax:(250)-398-4790
E-mail:Gerry.Venos@gov.bc.ca

From: Penny Carpenter s.22
Sent: Tuesday, August 5, 2014 8:08 AM
To: Venos, Gerry FLNR:EX
Subject: Important request from Mount Polley

Hi Gerry

I am trying to contact you regarding the dam breach at Mount Polley. Mount Polley is requesting the permission to contain, and remove the log debris from the lakes as soon as possible.

I have been asked to try and get all the required permits/permission for them to move forward with this as soon as possible as the logs have the potential to damage bridges etc,
When you get in will you call me asap. 250-296-0111 OR 250-303-1475.
Thanks Penny

Weir, David J FLNR:EX

From: Vanderburgh, Ken FLNR:EX
Sent: Tuesday, August 5, 2014 11:08 AM
To: Weir, David J FLNR:EX
Subject: FW: Permission Request for containment and relocation/removal of log and log debris due to dam breach

As discussed. Please follow up with Penny, we will update the EMBC at 1

From: Venos, Gerry FLNR:EX
Sent: Tuesday, August 5, 2014 10:43 AM
To: Vanderburgh, Ken FLNR:EX
Subject: FW: Permission Request for containment and relocation/removal of log and log debris due to dam breach

Hi Ken,
Mike just told me that you are the contact person. I want to keep you in the loop.

Gerry Venos R.P.F.
Revenue Forester
Cariboo-Chilcotin Natural Resource District
Phone:(250)-398-4406
Fax:(250)-398-4790
E-mail:Gerry.Venos@gov.bc.ca

From: Penny Carpenter s.22
Sent: Tuesday, August 5, 2014 10:29 AM
To: Pedersen, Mike FLNR:EX; Gerry.Macdougal@gov.bc.ca; Hamm, Mark FLNR:EX
Cc: Venos, Gerry FLNR:EX
Subject: Permission Request for containment and relocation/removal of log and log debris due to dam breach

Dear Mr. MacDougal, Mr. Pedersen and Mr. Hamm;

I am contacting you today in regards to the log debris in Quesnel Lake as a result of the dam breach at Mount Polley. I have been asked by Mount Polley to get permission to contain and relocate the logs and log debris in Quesnel Lake in order to mitigate any future damage.

I have received written permission from West Fraser to use their reload located on Quesnel Lake as a collection and removal point for the logs and log debris.

Mount Polley is in the progress of flying the experienced tug boat owner operator, whom previously looked after the boom and tug boats at the reload, to view the logs debris and to come up with a strategy to contain and relocate these logs and debris.

Mount Polley would like to move forward as soon as possible as this is a time sensitive matter. Mount Polley request written permission to contain the logs and log debris and relocate them to the reload and to use the reload as a log/debris collection area and removal point.

Please contact me if you have any questions or concerns. 250-296-0111 and cell 250-303-1475
Thank You
Penny Carpenter

Weir, David J FLNR:EX

From: Weir, David J FLNR:EX
Sent: Tuesday, August 5, 2014 4:01 PM
To: Bunce, Hubert ENV:EX
Cc: Rothman, Stephen MEM:EX
Subject: RE: re Mt polley Spill

I am working with Stephen Rothman; can he provide you with the updates? I just forwarded him this but effectively I am only facilitating what he is trying to do.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake, BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Bunce, Hubert ENV:EX
Sent: Tuesday, August 5, 2014 3:45 PM
To: Weir, David J FLNR:EX
Cc: Metcalfe, Shelley ENV:EX
Subject: RE: re Mt polley Spill

Thanks David

Can you keep me posted on your Orders to MPMC regarding debris clean up in Quesnel Lake and more importantly maintaining a given level in Polley Lake, as you mentioned on the EOC call.

Hubert Bunce
A/Mining Director, Environmental Protection
Regional Operations
ph (250) 751-3254 fax (250) 751-3103
2080A Lableux Road
Nanaimo BC V9T 6J9
Please consider the environment before printing this email
BC Pollution Free

From: Weir, David J FLNR:EX
Sent: Tuesday, August 5, 2014 3:42 PM
To: Bunce, Hubert ENV:EX
Subject: FW: re Mt polley Spill

See below

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake, BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Campbell, David FLNR:EX
Sent: Tuesday, August 5, 2014 3:23 PM
To: Weir, David J FLNR:EX
Subject: Re: re Mt polley Spill

Hi David.

Given the complexities with channel hydraulics and influence from the downstream lake(s) I think it would be speculating to estimate travel times

Cheers
Dave

Sent from my iPhone

On Aug 5, 2014, at 2:14 PM, "Weir, David J FLNR:EX" <David.J.Weir@gov.bc.ca> wrote:

Can you answer this one?

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Bunce, Hubert ENV:EX
Sent: Tuesday, August 5, 2014 1:57 PM
To: Weir, David J FLNR:EX
Subject: re Mt polley Spill

Question from farmer in Richmond re the spill.

At this time of year what is the typical travel time for water from Likely to Richmond?

Hubert Bunce
A/Mining Director, Environmental Protection
Regional Operations
ph (250) 751-3254 fax (250) 751-3103
2080A Labieux Road
Nanaimo BC V9T 6J9

Please consider the environment before printing this email
BC Pollution Free

Weir, David J FLNR:EX

From: Bunce, Hubert ENV:EX
Sent: Tuesday, August 5, 2014 3:45 PM
To: Weir, David J FLNR:EX
Cc: Metcalfe, Shelley ENV:EX
Subject: RE: re Mt polley Spill

Thanks David

Can you keep me posted on your Orders to MPMC regarding debris clean up in Quesnel Lake and more importantly maintaining a given level in Polley Lake, as you mentioned on the EOC call.

Hubert Bunce
A/Mining Director, Environmental Protection
Regional Operations
ph (250) 751-3254 fax (250) 751-3103
2080A Labieux Road
Nanaimo BC V9T 6J9

Please consider the environment before printing this email
BC Pollution Free

From: Weir, David J FLNR:EX
Sent: Tuesday, August 5, 2014 3:42 PM
To: Bunce, Hubert ENV:EX
Subject: FW: re Mt polley Spill

See below

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake, BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Campbell, David FLNR:EX
Sent: Tuesday, August 5, 2014 3:23 PM
To: Weir, David J FLNR:EX
Subject: Re: re Mt polley Spill

Hi David.

Given the complexities with channel hydraulics and influence from the downstream lake(s) I think it would be speculating to estimate travel times

Cheers
Dave

Sent from my iPhone

On Aug 5, 2014, at 2:14 PM, "Weir, David J FLNR:EX" <David.J.Weir@gov.bc.ca> wrote:

Can you answer this one?

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Bunce, Hubert ENV:EX
Sent: Tuesday, August 5, 2014 1:57 PM
To: Weir, David J FLNR:EX
Subject: re Mt polley Spill

Question from farmer in Richmond re the spill.

At this time of year what is the typical travel time for water from Likely to Richmond?

Hubert Bunce
A/Mining Director, Environmental Protection
Regional Operations
ph (250) 751-3254 fax (250) 751-3103
2080A Labieux Road
Hubert.Bunce@gov.bc.ca
Nanaimo BC V9T 6J9

Please consider the environment before printing this email
BC Pollution Free

Weir, David J FLNR:EX

From: Weir, David J FLNR:EX
Sent: Tuesday, August 5, 2014 3:42 PM
To: Bunce, Hubert ENV:EX
Subject: FW: re Mt polley Spill

See below

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Campbell, David FLNR:EX
Sent: Tuesday, August 5, 2014 3:23 PM
To: Weir, David J FLNR:EX
Subject: Re: re Mt polley Spill

Hi David.

Given the complexities with channel hydraulics and influence from the downstream lake(s) I think it would be speculating to estimate travel times

Cheers
Dave

Sent from my iPhone

On Aug 5, 2014, at 2:14 PM, "Weir, David J FLNR:EX" <David.J.Weir@gov.bc.ca> wrote:

Can you answer this one?

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Bunce, Hubert ENV:EX
Sent: Tuesday, August 5, 2014 1:57 PM
To: Weir, David J FLNR:EX
Subject: re Mt polley Spill

Question from farmer in Richmond re the spill.

At this time of year what is the typical travel time for water from Likely to Richmond?

Hubert Bunce

A/Mining Director, Environmental Protection

Regional Operations

ph (250) 751-3254 fax (250) 751-3103

2080A Labieux Road

Nanaimo BC V9T 6J9

Please consider the environment before printing this email

BC Pollution Free

Weir, David J FLNR:EX

From: Weir, David J FLNR:EX
Sent: Tuesday, August 5, 2014 3:33 PM
To: Jensen, Fern FLNR:EX
Subject: FW: Water Licence Tables- Polley Creek Area
Attachments: Licence Count for Polley Lake Area.xlsx

The message is that information concerning water use can be found at the CRD website. We have no information suggesting that the water is not safe but as a precautionary measure use is not advised. Updates will be available through the CRD site.

<http://www.cariboord.ca/news/43/139/Mount-Polley-Update-Water-Advisory>

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Cameron, Valerie Z FLNR:EX
Sent: Tuesday, August 5, 2014 1:37 PM
To: Weir, David J FLNR:EX; Vanderburgh, Ken FLNR:EX
Cc: Mason, Wenda FLNR:EX; Symonds, Brian FLNR:EX; Bekker, Pieter FLNR:EX
Subject: FW: Water Licence Tables- Polley Creek Area

Here is a summary of the licences that could be impacted. There are a larger number of water licences in the watershed, but most are on tribs so ok. You can share this info.

Please call me this afternoon after your EOC coord call re: additional information not included below.

Valerie

From: Chapman, Connie FLNR:EX
Sent: Tuesday, August 5, 2014 1:34 PM
To: Cameron, Valerie Z FLNR:EX; Bekker, Pieter FLNR:EX
Subject: Water Licence Tables- Polley Creek Area

Hi Pieter and Valerie,

Below and attached are the tables for the Polley Creek area water licence count.

Consumption Licences

Name	Water Works	Domestic	Bottle Sales	Camps	Irrigation	Work Camps	Total
------	-------------	----------	--------------	-------	------------	------------	-------

Quesnel Lake		19	1	1		1	21
Quesnel River	2	2			8		12
Cariboo Lake							0
Cariboo River							0
Polley Lake						1	1
Hazeltine Creek							0
							34

Other Licences

Name	Pulpmills	Dust Control	Mining Processing Ore	Mining Placer	Conserv- Use of Water	Total
Quesnel Lake						0
Quesnel River	1	2		3	2	8
Cariboo Lake		1				1
Cariboo River		1				1
Polley Lake		1	1			2
Hazeltine Creek						0
						12

Connie Chapman | *Water Resource Specialist*

Water Management Branch

Ministry of Forest, Lands and Natural Resource Operations

395 Waterfront Crescent, Victoria, BC

Office: 250 387-6339

Email: Connie.Chapman@gov.bc.ca

Consumption Licences

Name	Water Works	Domestic	Bottle Sales	Camps	Irrigation	Work Camps	Total
Quesnel Lake		19	1	1		1	21
Quesnel River	2	2			8		12
Cariboo Lake							0
Cariboo River							0
Polley Lake						1	1
Hazeltine Creek							0
							34

Other Licences

Name	Pulpmills	Dust Control
Quesnel Lake		
Quesnel River	1	2
Cariboo Lake		1
Cariboo River		1
Polley Lake		1
Hazeltine Creek		

Mining Processing Ore	Mining Placer	Conserv- Use of Water	Total
			0
	3	2	8
			1
			1
1			2
			0
			12

Weir, David J FLNR:EX

From: Hamm, Mark FLNR:EX
Sent: Tuesday, August 5, 2014 3:25 PM
To: Rothman, Stephen MEM:EX
Cc: Weir, David J FLNR:EX; Stolar, Harold B FLNR:EX
Subject: Approval: Removal of timber at outlet of Polley Lake

Stephen, I understand you're looking for approval to remove timber from an old drainage ditch that runs beside the tailings plug in Polley Lake, in order to facilitate drainage of the lake water. We'll provide that formal authorisation, but it will not be until tomorrow at the earliest. Please don't let this hold up the work you have planned if it will help to reduce the risk of breach of the tailings plug.

You can call me at 250-398-0817.

Mark

Mark Hamm, R.P.F.
Resource Manager
Cariboo Chilcotin District
(Williams Lake)
Ministry of Natural Resource Operations
tel 250-398-4399
mob 250-398-0817
fax 250-398-4790
<mailto:Mark.Hamm@gov.bc.ca>

From: Lishman, Peter FLNR:EX
Sent: Tuesday, August 5, 2014 3:06 PM
To: Hamm, Mark FLNR:EX; Rothman, Stephen MEM:EX
Subject: Mt Polly

Steve ---Mark Hamm is your Forest contact 250-398-4399

Weir, David J FLNR:EX

From: Campbell, David FLNR:EX
Sent: Tuesday, August 5, 2014 3:23 PM
To: Weir, David J FLNR:EX
Subject: Re: re Mt polley Spill

Hi David.

Given the complexities with channel hydraulics and influence from the downstream lake(s) I think it would be speculating to estimate travel times

Cheers
Dave

Sent from my iPhone

On Aug 5, 2014, at 2:14 PM, "Weir, David J FLNR:EX" <David.J.Weir@gov.bc.ca> wrote:

Can you answer this one?

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Bunce, Hubert ENV:EX
Sent: Tuesday, August 5, 2014 1:57 PM
To: Weir, David J FLNR:EX
Subject: re Mt polley Spill

Question from farmer in Richmond re the spill.

At this time of year what is the typical travel time for water from Likely to Richmond?

Hubert Bunce
A/Mining Director, Environmental Protection
Regional Operations
ph (250) 751-3254 fax (250) 751-3103
2080A Labieux Road
Nanaimo BC V9T 6J9

Please consider the environment before printing this email
BC Pollution Free

Weir, David J FLNR:EX

From: Weir, David J FLNR:EX
Sent: Tuesday, August 5, 2014 3:15 PM
To: XT:Carpenter, Penny FLNR:IN; Rothman, Stephen MEM:EX
Cc: Vanderburgh, Ken FLNR:EX; Stewart, Rodger W FLNR:EX
Subject: RE: Mt Polley

Hello, at this time it is our understanding that Stephen Rothman has the authority under the mines act to order the necessary measures to contain and remove the debris in Quesnel Lake and to authorize the management of the water level on Polley lake.

However: to remove any confusion and to address any shortcoming that might exist between the Mines Act, Water Act and the MOU that guides there coordination I order under Section 85 as follows;

Subject to the requirements of the Mines Act and MOU

http://iwww.env.gov.bc.ca/wsd/sla_mou/mempr_mou%202009.pdf and as it is in the public interest for the protection of safety and the integrity of Hazeltine Creek, Polley Lake, Quesnel Lake and the Quesnel River, recognizing the Mt Polley Mine's willingness to undergo the required work at their own cost and save the province harmless:

- 1) Under the direction of suitably qualified professionals licenced in the Province of BC the corporation is ordered to collect and remove such debris from Quesnel Lake, as a result of the Mt Polley tailings pond failure, as would threaten road infrastructure and stream channel stability. The manner and nature to be suitable to impacted parties Federal Agencies and the Province.
- 2) Under the direction of suitably qualified and experienced professionals licenced in the Province of BC; maintain the Lake level of Polley Lake in a manner that prevents further mass movement of material from Polley lake and Hazeltine Creek.
- 3) This order does not superseded any other legislation, agency, or government authority nor does it save them harmless.
- 4) This order is not intended to mitigate or limit the future punitive action of government with respect any non compliance by Mt Polley Mine.
- 5) This order is a temporary measure and is subject to cancelation or modification under the authority of the Water Act Mines Act or the MOU.
- 6) This order doe not authorize the entry onto private lands.

If necessary a more formal and document can be provided at a future date and in the absence of any direction to the contrary it should be considered to be expired as of August 22nd 2014 if not renewed. In addition to the general protection of public interest the specific purpose is to protect the bridge at Likely and to prevent secondary mass movements of material from the failure.

If there are any questions or you feel there is error please contact me. Keeping in mind the rushed nature of this document.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Penny Carpenter s.22
Sent: Tuesday, August 5, 2014 12:46 PM
To: Weir, David J FLNR:EX
Subject: RE: Mt Polley

Hi David

The Mines Gentleman Steve Rothman will be contacting you regarding the breach of the tailing pond. He will be able to fill you in and maybe it will help the work load so things are not getting duplicated.

Penny Carpenter

From: Weir, David J FLNR:EX [<mailto:David.J.Weir@gov.bc.ca>]
Sent: August-05-14 11:41 AM
To: XT:Carpenter, Penny FLNR:IN
Subject: Mt Polley

As per our discussion

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

Weir, David J FLNR:EX

From: O'Sullivan, Susan FLNR:EX
Sent: Tuesday, August 5, 2014 3:15 PM
To: Bruce, Stacy FLNR:EX; Cheverie, Desi FLNR:EX; Donahue, Sean FLNR:EX; Dunleavy, Krista FLNR:EX; Fouty, Amanda FLNR:EX; Jennings, Harry D FLNR:EX; Jungaro, Ray J FLNR:EX; Kerley, Jason F FLNR:EX; Larden, Monica A FLNR:EX; Montsion, Alyssa FLNR:EX; Nicol, Jane FLNR:EX; Ofstie, Curtis FLNR:EX; Osmachenko, Linda FLNR:EX; Palmantier, Kristy FLNR:EX; Perrey, Barbara E FLNR:EX; Rottluff, Kathleen FLNR:EX; Speed, Murray FLNR:EX; Tryon, Cordelia FLNR:EX; Wassenaar, Bev A FLNR:EX; Watson, Emily FLNR:EX; Weir, David J FLNR:EX
Subject: FW: Mt. Polley ECDA Info

STATEMENT

Bill Bennett, Minister of Energy and Mines, responds to Mt. Polley Mine Incident

VICTORIA - Minister of Energy and Mines Bill Bennett made the following statement today in response to the mine tailing pond incident at Mt. Polley Mine:

"In the early morning of August 4, 2014, the tailings pond dam at the Mt. Polley Mine site breached and released an estimated 10 million cubic metres of water and 4.5 million cubic metres of fine sand into Polley Lake. Hazletine Creek flows out of Polley Lake, and the flow may have continued into Quesnel Lake.

"This is a serious incident that should not have happened. We are devoting every appropriate resource working with local officials to clean up the site, mitigate any impacts to communities and the environment, and investigate the cause of the breach. We will determine the cause of the event and we are determined to prevent an incident like this from happening again.

"RCMP, Mt. Polley Mine executives, Ministry of Energy and Mines, Ministry of Environment, Emergency Management BC, Ministry of Transportation, Cariboo Regional District, Search and Rescue and Cariboo Dam Safety, responded to the event. Any potential environmental impact from the tailings pond water on the local watershed is unknown at this time but all efforts are being made to make a determination as soon as possible.

Cariboo Regional District, in consultation with Interior Health, has issued a precautionary water ban advisory not to drink or bathe in the water and not to allow pets or livestock to drink the water. The waterways affected by the ban include Quesnel Lake, Polley Lake, Hazeltine Creek and Cariboo Creek, as well as the Quesnel and Cariboo Rivers systems up to the Fraser River.

The ban does not apply to people in Williams Lake or other towns along the Fraser River.

"The Ministry of Environment is on-site conducting water tests to determine the full extent of potential environmental impacts. Water sampling took place the evening of Aug 4. Samples have been sent for analysis today, with results expected later this week.

"Ministry of Energy and Mines Inspectors are at the mine site investigating the cause.

Cariboo Regional District has set up a public information line at 250-398-5581, and updates will be posted to the Cariboo Regional District's emergency operations Facebook page.

"As more information becomes available, the B.C. government will provide that information to British Columbians."

Weir, David J FLNR:EX

From: Hamm, Mark FLNR:EX
Sent: Tuesday, August 5, 2014 2:44 PM
To: Weir, David J FLNR:EX
Subject: As requested: CRD water advisories
Attachments: CRD Emergency Operations - Mount Polley Mine Tailings Pond Breach Update; CRD
Emergency Operations News Release - Mount Polley Mine Tailings Pond Breached; CRD
News Release - Mount Polley Update

Here are the advisories issued yesterday by the CRD.

Mark

Weir, David J FLNR:EX

From: Campbell, David FLNR:EX
Sent: Tuesday, August 5, 2014 2:15 PM
To: Weir, David J FLNR:EX
Subject: Out of Office: re Mt polley Spill

I am currently out of the office until Monday August 11th. I will respond to your email when I return. For immediate River Forecast Centre inquiries, please contact Charles Luo at Charles.Luo@gov.bc.ca

Weir, David J FLNR:EX

From: Weir, David J FLNR:EX
Sent: Tuesday, August 5, 2014 2:15 PM
To: Campbell, David FLNR:EX
Subject: FW: re Mt polley Spill

Can you answer this one?

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Bunce, Hubert ENV:EX
Sent: Tuesday, August 5, 2014 1:57 PM
To: Weir, David J FLNR:EX
Subject: re Mt polley Spill

Question from farmer in Richmond re the spill.

At this time of year what is the typical travel time for water from Likely to Richmond?

Hubert Bunce
A/Mining Director, Environmental Protection
Regional Operations
ph (250) 751-3254 fax (250) 751-3103
2080A Labieux Road
Nanaimo BC V9T 6J9

Please consider the environment before printing this email
BC Pollution Free

Weir, David J FLNR:EX

From: Dave Carpenter <dcarpenter@mountpolley.com>
Sent: Tuesday, August 5, 2014 1:33 PM
To: Rothman, Stephen MEM:EX
Cc: Art Frye; Weir, David J FLNR:EX; XT:Carpenter, Penny FLNR:IN; Dale Reimer; donparsons@imperialmetals.com
Subject: FW: Important secondary debris flow potential as per David Weir

As per our discussion Stephen I am requesting approval to contain the woody debris flow from the Tailings breach at the mouth of Hazeltine creek on Quesnel Lake. I have contractors who will be in the lake this afternoon and using boom sticks they will collect up all the loose material they can and then anchor the containment boom across the mouth of the creek. This should mitigate some of the hazards of the logs floating towards Likely and also contain logs that currently are on the shore adjacent to and in front of the creek mouth. The concerns indicated by Mr. Weir in the previous e-mails I believe have been mitigated by the plan to syphon water from Polley Lake into the Wight pit. Thanks

David Carpenter
Assist Superintendent
Mine operations Department
Mount Polley mines
Work 250-790-2215 ext 2110
Home s.22 /Cell 250-267-4433
dcarpenter@mountpolley.com

From: Penny Carpenter s.22
Sent: Tuesday, August 05, 2014 11:58 AM
To: Dave Carpenter
Subject: Important secondary debris flow potential as per David Weir

David
This is the gentleman that I am dealing with in regards to the containment of the debris in the water. He can issue us a permit and is moving forward on that but the correct steps are to go through the Ministry of Mines whom may already have jurisdiction.
I need to find out if the Mines act has jurisdiction and if they can issue us a permit or order to deal with the consequences of the dam breach. The Ministry of Mines should issue all the requirements for clean up because they deal with failure of tailing pond.
I need to find out who is your contact person in the Ministry of Mines and if someone else from Mount Polley has requested this order for clean up through the Ministry of mines. I tried to contact Art but did not get a hold of him. I felt that I would wait to hear from you before I contact someone else.

There are main governments involved in a this incident and they all communicate under M.O.U letter of agreement. Ministry of Mines is the leading chair then there is Environmental Protection and Water Stewardship. David is in Water Stewardship

David Weir had a concern that he wants addressed today. It is the potential of a secondary debris flow stemming from the back up of Polley Lake. Can you fly this area and the lake and verify that there is not an area building up due to the blockage of the outlet for Polley and get back to me as soon as possible so that I can let David Weir know.

Thanks Penny

From: Weir, David J FLNR:EX [<mailto:David.J.Weir@gov.bc.ca>]

Sent: August-05-14 11:41 AM

To: XT:Carpenter, Penny FLNR:IN

Subject: Mt Polley

As per our discussion

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

Weir, David J FLNR:EX

From: Hamm, Mark FLNR:EX
Sent: Wednesday, August 6, 2014 9:06 AM
To: Vanderburgh, Ken FLNR:EX; Weir, David J FLNR:EX
Cc: Stolar, Harold B FLNR:EX
Subject: FW: Call this morning: Removal of timber at outlet of Polley Lake

Ken and Dave - just thinking that one or both of you may want to join us for this call.

Mark

Mark Hamm, R.P.F.
Resource Manager
Cariboo Chilcotin District
(Williams Lake)
Ministry of Natural Resource Operations

tel 250-398-4399
mob 250-398-0817
fax 250-398-4790
<mailto:Mark.Hamm@gov.bc.ca>

From: Hamm, Mark FLNR:EX
Sent: Wednesday, August 6, 2014 8:45 AM
To: Rothman, Stephen MEM:EX
Cc: Stolar, Harold B FLNR:EX
Subject: RE: Approval: Removal of timber at outlet of Polley Lake

That sounds good, Steve.

Mark

Mark Hamm, R.P.F.
Resource Manager
Cariboo Chilcotin District
(Williams Lake)
Ministry of Natural Resource Operations

tel 250-398-4399
mob 250-398-0817
fax 250-398-4790
<mailto:Mark.Hamm@gov.bc.ca>

From: Rothman, Stephen MEM:EX
Sent: Tuesday, August 5, 2014 9:38 PM
To: Hamm, Mark FLNR:EX
Subject: Re: Approval: Removal of timber at outlet of Polley Lake

Mark
Will call you when I get to site at about 9:30 tomorrow morning
We are leaving WL at about 7:30
Thanks
Steve

Sent from my iPhone

On Aug 5, 2014, at 3:24 PM, "Hamm, Mark FLNR:EX" <Mark.Hamm@gov.bc.ca> wrote:

Stephen, I understand you're looking for approval to remove timber from an old drainage ditch that runs beside the tailings plug in Polley Lake, in order to facilitate drainage of the lake water. We'll provide that formal authorisation, but it will not be until tomorrow at the earliest. Please don't let this hold up the work you have planned if it will help to reduce the risk of breach of the tailings plug.

You can call me at 250-398-0817.

Mark

Mark Hamm, R.P.F.
Resource Manager
Cariboo Chilcotin District
(Williams Lake)
Ministry of Natural Resource Operations
tel 250-398-4399
mob 250-398-0817
fax 250-398-4790
<mailto:Mark.Hamm@gov.bc.ca>

From: Lishman, Peter FLNR:EX
Sent: Tuesday, August 5, 2014 3:06 PM
To: Hamm, Mark FLNR:EX; Rothman, Stephen MEM:EX
Subject: Mt Polly

Steve ---Mark Hamm is your Forest contact 250-398-4399

Weir, David J FLNR:EX

From: Weir, David J FLNR:EX
Sent: Wednesday, August 6, 2014 8:46 AM
To: Rothman, Stephen MEM:EX
Subject: Mt Polley

Hello,

How is it going? Could you please give me an update on the lake levels at Polley Lake and the progress of the debris management on Quesnel Lake? If possible I may be up today if you don't mind?

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

Weir, David J FLNR:EX

From: Weir, David J FLNR:EX
Sent: Tuesday, August 5, 2014 4:39 PM
To: Symonds, Brian FLNR:EX
Subject: FW: Mt Polly
Attachments: RE: Mt Polley

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Weir, David J FLNR:EX
Sent: Tuesday, August 5, 2014 4:22 PM
To: Butler, Len ENV:EX; Cameron, Kevin J FLNR:EX; Hupman, C Bruce MEM:EX; Stewart, Rodger W FLNR:EX
Subject: RE: Mt Polly

Please be advised I sent this out today to facilitate action on this. There could be a danger of secondary failure if Polley lake keeps rising and the debris endangers the Likely bridge. The MOU with Mines really should make this order redundant but my experience on the Lemon Creek spill with delay due to issues around Arch sites is that any confusion on jurisdictional issues can have significant impacts. Stephen Rothman is the Mines person onsite and he can be contacted by e-mail.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Butler, Len ENV:EX
Sent: Tuesday, August 5, 2014 1:19 PM
To: Cameron, Kevin J FLNR:EX; Hupman, C Bruce MEM:EX; Weir, David J FLNR:EX; Stewart, Rodger W FLNR:EX
Subject: RE: Mt Polly

Kevin
The COS and mines are investigating as we speak. Our MIU section is taking the lead and Staff Sgt Kelly Dahl is media contact. I will forward your email to SS Dahl.
Len

From: Cameron, Kevin J FLNR:EX
Sent: Tuesday, August 5, 2014 12:48 PM
To: Hupman, C Bruce MEM:EX; Weir, David J FLNR:EX; Butler, Len ENV:EX; Stewart, Rodger W FLNR:EX
Subject: Mt Polly

Not sure how involved our agencies are in regard to the Mt. Polly incident but if there are any inspection/investigation assistance C&E can provide, let me know and I'll make the arrangements. Cheers

Kevin Cameron,
Regional Manager Compliance and Enforcement Branch
Cariboo Region
Ministry of Forests, Lands and Natural Resource Operations

Phone: (250) 395-7878
Cell: (250) 267-4380

Weir, David J FLNR:EX

From: Weir, David J FLNR:EX
Sent: Tuesday, August 5, 2014 3:15 PM
To: XT:Carpenter, Penny FLNR:IN; Rothman, Stephen MEM:EX
Cc: Vanderburgh, Ken FLNR:EX; Stewart, Rodger W FLNR:EX
Subject: RE: Mt Polley

Hello, at this time it is our understanding that Stephen Rothman has the authority under the mines act to order the necessary measures to contain and remove the debris in Quesnel Lake and to authorize the management of the water level on Polley lake.

However, to remove any confusion and to address any shortcoming that might exist between the Mines Act, Water Act and the MOU that guides there coordination I order under Section 85 as follows;

Subject to the requirements of the Mines Act and MOU

http://iwww.env.gov.bc.ca/wsd/sla_mou/mempr_mou%202009.pdf and as it is in the public interest for the protection of safety and the integrity of Hazeltine Creek, Polley Lake, Quesnel Lake and the Quesnel River, recognizing the Mt Polley Mine's willingness to undergo the required work at their own cost and save the province harmless:

- 1) Under the direction of suitably qualified professionals licenced in the Province of BC the corporation is ordered to collect and remove such debris from Quesnel Lake, as a result of the Mt Polley tailings pond failure, as would threaten road infrastructure and stream channel stability. The manner and nature to be suitable to impacted parties Federal Agencies and the Province.
- 2) Under the direction of suitably qualified and experienced professionals licenced in the Province of BC; maintain the Lake level of Polley Lake in a manner that prevents further mass movement of material from Polley lake and Hazeltine Creek.
- 3) This order does not superseded any other legislation, agency, or government authority nor does it save them harmless.
- 4) This order is not intended to mitigate or limit the future punitive action of government with respect any non compliance by Mt Polley Mine.
- 5) This order is a temporary measure and is subject to cancelation or modification under the authority of the Water Act Mines Act or the MOU.
- 6) This order doe not authorize the entry onto private lands.

If necessary a more formal and document can be provided at a future date and in the absence of any direction to the contrary it should be considered to be expired as of August 22nd 2014 if not renewed. In addition to the general protection of public interest the specific purpose is to protect the bridge at Likely and to prevent secondary mass movements of material from the failure.

If there are any questions or you feel there is error please contact me. Keeping in mind the rushed nature of this document.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Penny Carpenter s.22
Sent: Tuesday, August 5, 2014 12:46 PM
To: Weir, David J FLNR:EX
Subject: RE: Mt Polley

Hi David

The Mines Gentleman Steve Rothman will be contacting you regarding the breach of the tailing pond. He will be able to fill you in and maybe it will help the work load so things are not getting duplicated.

Penny Carpenter

From: Weir, David J FLNR:EX [<mailto:David.J.Weir@gov.bc.ca>]
Sent: August-05-14 11:41 AM
To: XT:Carpenter, Penny FLNR:IN
Subject: Mt Polley

As per our discussion

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

Weir, David J FLNR:EX

From: Weir, David J FLNR:EX
Sent: Tuesday, August 5, 2014 4:22 PM
To: Butler, Len ENV:EX; Cameron, Kevin J FLNR:EX; Hupman, C Bruce MEM:EX; Stewart, Rodger W FLNR:EX
Subject: RE: Mt Polly
Attachments: RE: Mt Polley

Please be advised I sent this out today to facilitate action on this. There could be a danger of secondary failure if Polley lake keeps rising and the debris endangers the Likely bridge. The MOU with Mines really should make this order redundant but my experience on the Lemon Creek spill with delay due to issues around Arch sites is that any confusion on jurisdictional issues can have significant impacts. Stephen Rothman is the Mines person onsite and he can be contacted by e-mail.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Butler, Len ENV:EX
Sent: Tuesday, August 5, 2014 1:19 PM
To: Cameron, Kevin J FLNR:EX; Hupman, C Bruce MEM:EX; Weir, David J FLNR:EX; Stewart, Rodger W FLNR:EX
Subject: RE: Mt Polly

Kevin
The COS and mines are investigating as we speak. Our MIU section is taking the lead and Staff Sgt Kelly Dahl is media contact. I will forward your email to SS Dahl.
Len

From: Cameron, Kevin J FLNR:EX
Sent: Tuesday, August 5, 2014 12:48 PM
To: Hupman, C Bruce MEM:EX; Weir, David J FLNR:EX; Butler, Len ENV:EX; Stewart, Rodger W FLNR:EX
Subject: Mt Polly

Not sure how involved our agencies are in regard to the Mt. Polly incident but if there are any inspection/investigation assistance C&E can provide, let me know and I'll make the arrangements. Cheers

Kevin Cameron,
Regional Manager Compliance and Enforcement Branch
Cariboo Region
Ministry of Forests, Lands and Natural Resource Operations

Phone: (250) 395-7878
Cell: (250) 267-4380

Weir, David J FLNR:EX

From: Weir, David J FLNR:EX
Sent: Tuesday, August 5, 2014 3:15 PM
To: XT:Carpenter, Penny FLNR:IN; Rothman, Stephen MEM:EX
Cc: Vanderburgh, Ken FLNR:EX; Stewart, Rodger W FLNR:EX
Subject: RE: Mt Polley

Hello, at this time it is our understanding that Stephen Rothman has the authority under the mines act to order the necessary measures to contain and remove the debris in Quesnel Lake and to authorize the management of the water level on Polley lake.

However: to remove any confusion and to address any shortcoming that might exist between the Mines Act, Water Act and the MOU that guides there coordination I order under Section 85 as follows;

Subject to the requirements of the Mines Act and MOU

http://iwww.env.gov.bc.ca/wsd/sla_mou/mempr_mou%202009.pdf and as it is in the public interest for the protection of safety and the integrity of Hazeltine Creek, Polley Lake, Quesnel Lake and the Quesnel River, recognizing the Mt Polley Mine's willingness to undergo the required work at their own cost and save the province harmless:

- 1) Under the direction of suitably qualified professionals licenced in the Province of BC the corporation is ordered to collect and remove such debris from Quesnel Lake, as a result of the Mt Polley tailings pond failure, as would threaten road infrastructure and stream channel stability. The manner and nature to be suitable to impacted parties Federal Agencies and the Province.
- 2) Under the direction of suitably qualified and experienced professionals licenced in the Province of BC; maintain the Lake level of Polley Lake in a manner that prevents further mass movement of material from Polley lake and Hazeltine Creek.
- 3) This order does not superseded any other legislation, agency, or government authority nor does it save them harmless.
- 4) This order is not intended to mitigate or limit the future punitive action of government with respect any non compliance by Mt Polley Mine.
- 5) This order is a temporary measure and is subject to cancelation or modification under the authority of the Water Act Mines Act or the MOU.
- 6) This order doe not authorize the entry onto private lands.

If necessary a more formal and document can be provided at a future date and in the absence of any direction to the contrary it should be considered to be expired as of August 22nd 2014 if not renewed. In addition to the general protection of public interest the specific purpose is to protect the bridge at Likely and to prevent secondary mass movements of material from the failure.

If there are any questions or you feel there is error please contact me. Keeping in mind the rushed nature of this document.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake, BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Penny Carpenter s.22
Sent: Tuesday, August 5, 2014 12:46 PM
To: Weir, David J FLNR:EX
Subject: RE: Mt Polley

Hi David

The Mines Gentleman Steve Rothman will be contacting you regarding the breach of the tailing pond. He will be able to fill you in and maybe it will help the work load so things are not getting duplicated.
Penny Carpenter

From: Weir, David J FLNR:EX [mailto:David.J.Weir@gov.bc.ca]
Sent: August-05-14 11:41 AM
To: XT:Carpenter, Penny FLNR:IN
Subject: Mt Polley

As per our discussion

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

Weir, David J FLNR:EX

From: Weir, David J FLNR:EX
Sent: Tuesday, August 5, 2014 4:23 PM
To: Jensen, Fern FLNR:EX
Subject: FW: As requested: CRD water advisories
Attachments: CRD Emergency Operations - Mount Polley Mine Tailings Pond Breach Update; CRD Emergency Operations News Release - Mount Polley Mine Tailings Pond Breached; CRD News Release - Mount Polley Update

FYI

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake, BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Hamm, Mark FLNR:EX
Sent: Tuesday, August 5, 2014 2:44 PM
To: Weir, David J FLNR:EX
Subject: As requested: CRD water advisories

Here are the advisories issued yesterday by the CRD.

Mark

Weir, David J FLNR:EX

From: Shelly Burich <SBurich@cariboord.bc.ca>
Sent: Monday, August 4, 2014 4:41 PM
To: EOC Communications
Subject: CRD Emergency Operations - Mount Polley Mine Tailings Pond Breach Update
Attachments: EOC- Mount Polley - 14-03.pdf

Attached and below is the most recent update from the Cariboo Regional District's Emergency Operations Centre.

Mount Polley Update

Water Advisory Expanded


Copyright

-30-

Shelly Burich, APR
Manager of Communications
sburich@cariboord.bc.ca



Cariboo Regional District
Phone: 250-392-3351 Ext. 213
Toll Free 1-800-665-1636
Fax: 250-392-2812
Cell: 250-305-8151
www.cariboord.bc.ca

 Please think about the environment before you print

*****DISCLAIMER*****

This e-mail and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you are not the named addressee, please notify the sender immediately by e-mail. If you have received this e-mail by mistake, delete this e-mail from your system. If you are not the intended recipient you are hereby notified that using, disclosing, copying or distributing the contents of this information is strictly prohibited.

*****DISCLAIMER*****

Weir, David J FLNR:EX

From: Shelly Burich <SBurich@cariboord.bc.ca>
Sent: Monday, August 4, 2014 1:27 PM
To: Shelly Burich
Subject: CRD News Release - Mount Polley Update
Attachments: DSC_2412.JPG; EOC- Mount Polley - 14-02.pdf; HAZELTINE_CREEK_2014_08_04_1200_8X11_INSET.pdf

Monday, August 4, 2014
EOC – Mount Polley – 14-02
For immediate release

Mount Polley Update

CRD Emergency Operations Centre Open

Copyright

-30-

Note to media: Media calls should be directed to 250-305-8151. Photo is courtesy of the RCMP.

Shelly Burich, APR
Manager of Communications
sburich@cariboord.bc.ca



Cariboo Regional District
Phone: 250-392-3351 Ext. 213
Toll Free 1-800-665-1636
Fax: 250-392-2812
Cell: 250-305-8151
www.cariboord.bc.ca



Please think about the environment before you print

*****DISCLAIMER*****

This e-mail and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you are not the named addressee, please notify the sender immediately by e-mail. If you have received this e-mail by mistake, delete this e-mail from your system. If you are not the intended recipient you are hereby notified that using, disclosing, copying or distributing the contents of this information is strictly prohibited.

*****DISCLAIMER*****





NEWS RELEASE

Monday, August 4, 2014
EOC – Mount Polley – 14-02
For immediate release

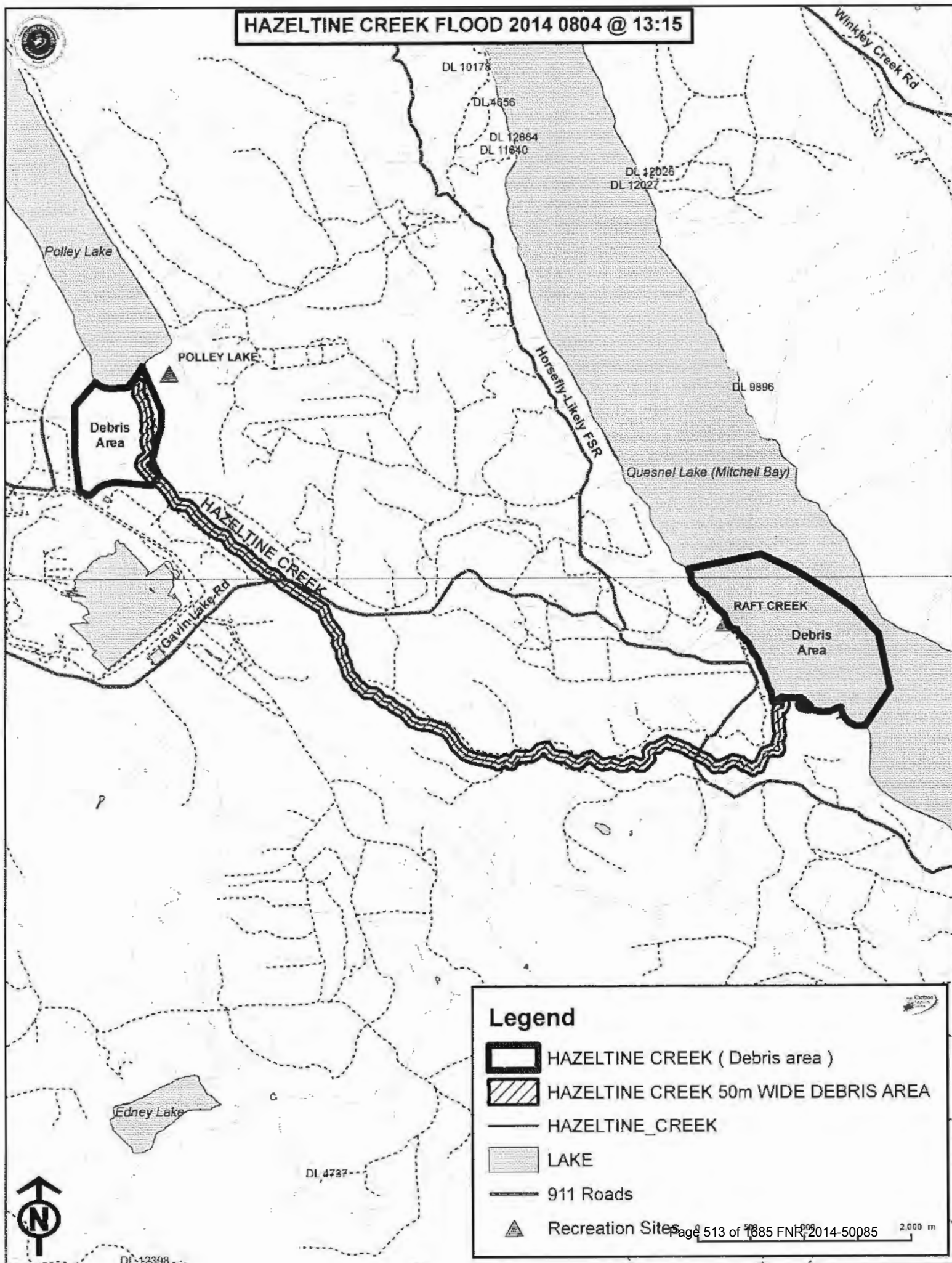
Mount Polley Update CRD Emergency Operations Centre Open

Copyright

-30-

Note to media: Media calls should be directed to 250-305-8151.

HAZELTINE CREEK FLOOD 2014 0804 @ 13:15



Legend

- HAZELTINE CREEK (Debris area)
- HAZELTINE CREEK 50m WIDE DEBRIS AREA
- HAZELTINE_CREEK
- LAKE
- 911 Roads
- Recreation Sites

From: Shelly Burich <SBurich@cariboord.bc.ca>
Sent: Monday, August 4, 2014 10:15 AM
To: EOC Communications
Subject: CRD Emergency Operations News Release - Mount Polley Mine Tailings Pond Breached
Attachments: EOC- Mount Polley - 14-01.pdf

Attached and below is the most recent news release from the Cariboo Regional District's Emergency Operations Centre. Please note that there is a complete water ban in effect for the affected area until further notice including recreational water activities, bathing, drinking etc.

Thank you.

Monday, August 4, 2014
EOC – Mount Polley – 14-01
For immediate release

Mount Polley Mine Tailings Pond Breached

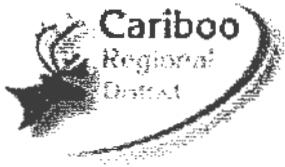
CRD Emergency Operations Centre Open

Copyright

-30-

Note to media: A map of the affected area will be following shortly. Media calls should be directed to 250-305-8151.

Shelly Burich, APR
Manager of Communications
sburich@cariboord.bc.ca



Cariboo Regional District
Phone: 250-392-3351 Ext. 213
Toll Free 1-800-665-1636
Fax: 250-392-2812
Cell: 250-305-8151
www.cariboord.bc.ca



Please think about the environment before you print

*****DISCLAIMER*****

This e-mail and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you are not the named addressee, please notify the sender immediately by e-mail. If you have received this e-mail by mistake, delete this e-mail from your system. If you are not the intended recipient you are hereby notified that using, disclosing, copying or distributing the contents of this information is strictly prohibited.

*****DISCLAIMER*****



NEWS RELEASE

Monday, August 4, 2014
EOC – Mount Polley – 14-01
For immediate release

Mount Polley Mine Tailings Pond Breached **CRD Emergency Operations Centre Open**

Copyright

-30-

Note to media: A map of the affected area will be following shortly. Media calls should be directed to 250-305-8151.

Weir, David J FLNR:EX

From: Hamm, Mark FLNR:EX
Sent: Wednesday, August 6, 2014 2:35 PM
To: Weir, David J FLNR:EX; Rothman, Stephen MEM:EX; Vanderburgh, Ken FLNR:EX; Stolar, Harold B FLNR:EX
Subject: Heads up: Spot forecast for Mount Polley
Attachments: Mount Polley Spot Fcst August 6, 2014.doc

Importance: High

Dave and Steve -- please confirm that you've received this.

Mark

Mark Hamm, R.P.F.
Resource Manager
Cariboo Chilcotin District
(Williams Lake)
Ministry of Natural Resource Operations
tel 250-398-4399
mob 250-398-0817
fax 250-398-4790
<mailto:Mark.Hamm@gov.bc.ca>

-----Original Message-----

From: Isfeld, Kurtis FLNR:EX
Sent: Wednesday, August 6, 2014 2:33 PM
To: Hamm, Mark FLNR:EX; Palesch, Dan TRAN:EX
Subject: FW: Spot forecast for Mount Polley

Here is your spot forecast as requested.

Kurtis Isfeld, RFT
Manager
Cariboo Fire Centre
BC Wildfire Management Branch
Forests, Lands & Natural Resource Operations
W: 250-989-2655 | Cell: 250-267-5389

-----Original Message-----

From: Bardossy, Robert FLNR:EX
Sent: Wednesday, August 6, 2014 2:26 PM
To: Isfeld, Kurtis FLNR:EX
Subject: Fw: Spot forecast for Mount Polley

----- Original Message -----

From: WXVanEaton [s.22](#)

Sent: Wednesday, August 06, 2014 02:23 PM

To: Bardossy, Robert FLNR:EX

Subject: Spot forecast for Mount Polley

As requested. I'm not sure if it's normal to extend the valid times beyond the standard 13/17 PDT when we're sending them out this late, let me know if you guys need this done.

Christina

--

Christina Van Eaton

Fire Weather Forecaster

[s.22](#)

(778) 475-2718

BC Wildfire Management Branch Spot Forecast

This is not a substitute for direct discussions with the fire weather forecaster!

Date Issued: August 6, 2014

Valid: 2:30 pm

REQUEST (Don't request preparation for early in the morning unless you need it then!)

Fire/Proj #	n/a	Request by:	Robert Bardossy	Date:	August 6, 2014
Location Name:	Mount Polley				
Representative Wx Stn	Likely, Gavin				
Coordinates: dd mm.mmm	52 30.849, 121 37.066				
Slope%	10% or less	Aspect		Valley Orientation	
Elevation(s) for forecast	1040 metres	Other? tailings pond breach			
Date/Times Required (discuss additional needs with forecaster)	Date: Aug 6	Select (PDT)	1300 1700 2100 0100 0500 0900		

SYNOPSIS

Heights continue to fall today over the area as the upper ridge moves eastward and we see a broad upper trough settle in this afternoon. Tomorrow the broad upper trough remains over the province and a surface low develops in northeastern BC which pushes a weak surface trough down into interior regions of the province. This trough will move southeastward as the low associated with it pushes eastward over the northern prairies, creating a wind shift late in the day tomorrow over the area. Smokey conditions will continue although we should see some minor improvement as the upper flow increases over the area and transports it away.

TODAY

A mix of sun and cloud with isolated afternoon showers. Risk of a thundershower. High near 25. Minimum rh near 32%. Winds west to northwesterly 10 to 15 km/h with local afternoon gusts to 25 km/h.

TONIGHT

Variable cloudiness with isolated showers tapering off late evening. Low near 10. Maximum rh 85 to 90%. Winds northwest 5 to 10 km/h easing to calm toward morning.

TOMORROW

A mix of sun and cloud. Scattered showers and thundershowers developing near mid-afternoon. High near 22. Minimum rh near 40%. Winds light and variable in the morning becoming northwest 10 to 15 km/h in the afternoon with local gusts to 25 km/h. Local gusts to 50 km/h near thundershowers.

OUTLOOK: Friday to Sunday

Friday sees an upper trough continue over the area continuing slightly cooler temperatures. Saturday we see temperatures start to climb once again as an upper ridge builds over the province, warming a few degrees more for Sunday as the ridge builds in amplitude, and we'll see a return to dryer conditions.

SPOT FORECAST

Wednesday August 6

13:00	TEMP	24	RH	42	WIND	WNW 10 km/h	% CHANCE RAIN	0
17:00	TEMP	29	RH	23	WIND	WNW 13g25 km/h	% CHANCE RAIN	30

DISCUSSION:

The surface trough that drops down into the area tomorrow afternoon will make wind direction very challenging in the area as the trough will set up very nearby. Light and variable winds may be the story for a good part of the day before the trough moves off and we see a light northwesterly flow into the region. Very isolated showers for today, more scattered tomorrow with the risk of a thundershower better for tomorrow as well. The area lies just very near the edge of the area of potential lightning for today, and likely won't see anything.

Upper winds at Williams Lake valid 1700h PDT:

2000m NW 15 km/h 3000m WSW 30 km/h

Forecaster: Christina Van Eaton (778) 475-2718

PLEASE provide any onsite weather readings with locations to the forecaster!

Weir, David J FLNR:EX

From: Hamm, Mark FLNR:EX
Sent: Wednesday, August 6, 2014 1:41 PM
To: FLNR Cariboo Resource Building All Staff
Subject: Mount Polley MEDIA ADVISORY TODAY - Ministry of Energy and Mines

Importance: High

If you're interested in listening in on this media briefing with the Minister of Energy and Mines (Bill Bennett), Al Richmond (Cariboo Regional Chair), and Jennifer McGuire (Director, Environmental Protection for MOE), please gather at 15.00 today in the Tweedsmuir Room (4th Floor) or the common area on the second floor.

Please avoid the Williams Lake Room, where the media briefing is being held.

Mark

Mark Hamm, R.P.F.
Resource Manager
Cariboo Chilcotin District
(Williams Lake)
Ministry of Natural Resource Operations
tel 250-398-4399
mob 250-398-0817
fax 250-398-4790
<mailto:Mark.Hamm@gov.bc.ca>

From: Scott-Zowty, Barb CSNR:EX
Sent: Wednesday, August 6, 2014 1:27 PM
To: Hamm, Mark FLNR:EX; Fairburn, Rebecca A ENV:EX
Subject: FW: MEDIA ADVISORY - Ministry of Energy and Mines
Importance: High

Rebecca/Mark,

I'm on a conference call right now. Can you please coordinate booking a room on the 2nd and 4th floors and send a note out to staff accordingly.

There won't be room for staff at the actual media advisory but a couple different locations in the building should suffice.

Thanks,
barb

From: Groot, Jeff GCPE:EX
Sent: Wednesday, August 6, 2014 1:17 PM
To: Scott-Zowty, Barb CSNR:EX
Subject: FW: MEDIA ADVISORY - Ministry of Energy and Mines

Barb – please feel free to send this around to anyone who needs it. Staff are certainly able to dial in to the conference call at 3pm at the number below, but I'd ask that they don't come down to the boardroom. We are expecting a few media and we need to make sure they have room to set up.

If folks would like to dial in, just because government pays per person on the line, I'd ask that they gather in one place or a few places wherever possible, just to save some cash.

I know it's not as good as being there in person, but hopefully this is a solution that will work for everyone.

Thanks,

Jeff

From: Government of British Columbia [<mailto:GCPE.News@gov.bc.ca>]

Sent: Wednesday, August 6, 2014 1:13 PM

To: GCPE Minis

Subject: MEDIA ADVISORY - Ministry of Energy and Mines

August 6, 2014

MEDIA ADVISORY - Ministry of Energy and Mines

~~WILLIAMS LAKE - Bill Bennett, Minister of Energy and Mines and Responsible for Core Review will join Al Richmond, Cariboo Regional Chair to provide an update on the Mount Polley tailings pond breach today in Williams Lake. Jennifer McGuire from the Ministry of Environment will also have an update on further clean up measures.~~

Bennett will be available to province-wide media via media conference call.

Event Date: Aug. 6, 2014

Time: 3 p.m.

Location:
1st floor boardroom
640 Borland St.
Williams Lake

Special Instructions:

Dial in numbers:

s.17

Participant Pass Code: **s.17**

Contact:

Jake Jacobs

Media Relations

Ministry of Energy and Mines and Responsible for Core Review

250 952-0628

Weir, David J FLNR:EX

From: Fairburn, Rebecca A ENV:EX
Sent: Wednesday, August 6, 2014 1:35 PM
To: ENV FLNR 4th Floor 640 Borland
Subject: FW: MEDIA ADVISORY - Ministry of Energy and Mines

Importance: High

This is what the conference call is about at 3:00 pm in the Tweedsmuir room. Easier to send this than try to explain as by myself out here and busy.

From: Scott-Zowty, Barb CSNR:EX
Sent: Wednesday, August 6, 2014 1:27 PM
To: Hamm, Mark FLNR:EX; Fairburn, Rebecca A ENV:EX
Subject: FW: MEDIA ADVISORY - Ministry of Energy and Mines
Importance: High

Rebecca/Mark,

I'm on a conference call right now. Can you please coordinate booking a room on the 2nd and 4th floors and send a note out to staff accordingly.

~~There won't be room for staff at the actual media advisory but a couple different locations in the building should suffice.~~

Thanks,
barb

From: Groot, Jeff GCPE:EX
Sent: Wednesday, August 6, 2014 1:17 PM
To: Scott-Zowty, Barb CSNR:EX
Subject: FW: MEDIA ADVISORY - Ministry of Energy and Mines

Barb – please feel free to send this around to anyone who needs it. Staff are certainly able to dial in to the conference call at 3pm at the number below, but I'd ask that they don't come down to the boardroom. We are expecting a few media and we need to make sure they have room to set up.

If folks would like to dial in, just because government pays per person on the line, I'd ask that they gather in one place or a few places wherever possible, just to save some cash.

I know it's not as good as being there in person, but hopefully this is a solution that will work for everyone.

Thanks,

Jeff

From: Government of British Columbia [<mailto:GCPE.News@gov.bc.ca>]
Sent: Wednesday, August 6, 2014 1:13 PM
To: GCPE Minis
Subject: MEDIA ADVISORY - Ministry of Energy and Mines

August 6, 2014

MEDIA ADVISORY - Ministry of Energy and Mines

WILLIAMS LAKE - Bill Bennett, Minister of Energy and Mines and Responsible for Core Review will join Al Richmond, Cariboo Regional Chair to provide an update on the Mount Polley tailings pond breach today in Williams Lake. Jennifer McGuire from the Ministry of Environment will also have an update on further clean up measures.

Bennett will be available to province-wide media via media conference call.

Event Date: Aug. 6, 2014

Time: 3 p.m.

Location:
1st floor boardroom
640 Borland St.
Williams Lake

Special Instructions:

Dial in numbers:

s.17

Participant Pass Code: s.17

Contact:

Jake Jacobs

Media Relations

Ministry of Energy and Mines and Responsible for Core Review

250 952-0628

Weir, David J FLNR:EX

From: Hamm, Mark FLNR:EX
Sent: Wednesday, August 6, 2014 12:28 PM
To: Hamm, Mark FLNR:EX; Weir, David J FLNR:EX; Rothman, Stephen MEM:EX
Cc: Vanderburgh, Ken FLNR:EX; Palesch, Dan TRAN:EX; Cameron, Valerie Z FLNR:EX; Symonds, Brian FLNR:EX; Stolar, Harold B FLNR:EX
Subject: Clarification RE: Info: Daily weather forecasts for Polley Lake
Importance: High

Please note that the afternoon weather call only supports up to ten lines. I suggest that we tag someone (Steve and/or Dave?) to participate on one phone and report any significant info to the rest of us through Ken.

Mark

Mark Hamm, R.P.F.
Resource Manager
Cariboo-Chilcotin District
(Williams Lake)
Ministry of Natural Resource Operations
tel 250-398-4399
mob 250-398-0817
fax 250-398-4790
<mailto:Mark.Hamm@gov.bc.ca>

From: Hamm, Mark FLNR:EX
Sent: Wednesday, August 6, 2014 12:08 PM
To: Weir, David J FLNR:EX; Rothman, Stephen MEM:EX
Cc: Vanderburgh, Ken FLNR:EX; Palesch, Dan TRAN:EX; Cameron, Valerie Z FLNR:EX; Symonds, Brian FLNR:EX; Stolar, Harold B FLNR:EX
Subject: Info: Daily weather forecasts for Polley Lake

Wildfire Management Branch's forecaster has the Mount Polley forecast in her workplan, and should have a forecast by around 14.00. There will be a 14.00 weather update today that you can call in to at 1-250-953-3192.

You can view the most recent daily (morning) weather briefing at this link.
<http://fwxwww1.hpr.for.gov.bc.ca/scripts/menu/BC/ShowPage.asp?page=wxbrief>

Dan, I believe you were looking for this info also.

Mark

Mark Hamm, R.P.F.
Resource Manager
Cariboo Chilcotin District
(Williams Lake)
Ministry of Natural Resource Operations
tel 250-398-4399
mob 250-398-0817
fax 250-398-4790
<mailto:Mark.Hamm@gov.bc.ca>

From: Cameron, Valerie Z FLNR:EX
Sent: Wednesday, August 6, 2014 11:44 AM
To: Hamm, Mark FLNR:EX; Weir, David J FLNR:EX; Symonds, Brian FLNR:EX
Cc: Rothman, Stephen MEM:EX; Vanderburgh, Ken FLNR:EX; Palesch, Dan TRAN:EX
Subject: RE: Map of Area Impacted by Mt. Polley Tailings Dam Failure

Hi Mark,
That would be preferable to me passing on a second hand report. Please let us know if and when the WMB reports are produced. In the short term, I will continue to pass on whatever information I can.
Valerie

From: Hamm, Mark FLNR:EX
Sent: Wednesday, August 6, 2014 11:36 AM
To: Cameron, Valerie Z FLNR:EX; Weir, David J FLNR:EX; Symonds, Brian FLNR:EX
Cc: Rothman, Stephen MEM:EX; Vanderburgh, Ken FLNR:EX; Palesch, Dan TRAN:EX
Subject: RE: Map of Area Impacted by Mt. Polley Tailings Dam Failure

Valerie, just so you know, I'm looking into whether we can get a daily spot forecast for precipitation from WMB over the next week or so.

Mark

Mark Hamm, R.P.F.
Resource Manager
Cariboo Chilcotin District
(Williams Lake)
Ministry of Natural Resource Operations
tel 250-398-4399
mob 250-398-0817
fax 250-398-4790
<mailto:Mark.Hamm@gov.bc.ca>

From: Cameron, Valerie Z FLNR:EX
Sent: Wednesday, August 6, 2014 10:25 AM
To: Weir, David J FLNR:EX; Symonds, Brian FLNR:EX
Cc: Rothman, Stephen MEM:EX; Vanderburgh, Ken FLNR:EX; Palesch, Dan TRAN:EX; Hamm, Mark FLNR:EX
Subject: RE: Map of Area Impacted by Mt. Polley Tailings Dam Failure

Hi Dave,

I just got off the Fire Weather conference call, which is held at 10 a.m. each morning. They are predicting some thunderstorm activity in the vicinity and over the next few days. I will have to go back into the recorded session to get details about precipitation amounts and temperatures, but it won't be posted until a little later today. I'll pass on the information as I receive it.

Valerie

From: Weir, David J FLNR:EX
Sent: Wednesday, August 6, 2014 10:18 AM
To: Symonds, Brian FLNR:EX
Cc: Rothman, Stephen MEM:EX; Vanderburgh, Ken FLNR:EX; Palesch, Dan TRAN:EX; Cameron, Valerie Z FLNR:EX; Hamm, Mark FLNR:EX
Subject: RE: Map of Area Impacted by Mt. Polley Tailings Dam Failure

Hi Brian, I am heading up right now to Mt Polley. I am taking a sat phone for Stephen who is the mines contact Sat number **s.15**. Can we provide Stephen with a daily detailed weather forecast through the river forecast center? I am thinking that if the forcast center does the daily and long term forecast then we can have the fire center provide thunderstorm warnings locally as they track lightning strikes?

On the road now.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake, BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Symonds, Brian FLNR:EX
Sent: Wednesday, August 6, 2014 9:59 AM
To: Ethier, Tom FLNR:EX
Cc: Cameron, Valerie Z FLNR:EX; Mason, Wenda FLNR:EX; Bekker, Pieter FLNR:EX; Weir, David J FLNR:EX
Subject: Map of Area Impacted by Mt. Polley Tailings Dam Failure

Please find attached rudimentary local area maps and a copy of the Declaration of State of Local Emergency for your information.

Brian Symonds
Director , Water Stewardship
Tel: (250) 490-8255 Fax: (250) 490-2231

Weir, David J FLNR:EX

From: Hamm, Mark FLNR:EX
Sent: Wednesday, August 6, 2014 12:08 PM
To: Weir, David J FLNR:EX; Rothman, Stephen MEM:EX
Cc: Vanderburgh, Ken FLNR:EX; Palesch, Dan TRAN:EX; Cameron, Valerie Z FLNR:EX; Symonds, Brian FLNR:EX; Stolar, Harold B FLNR:EX
Subject: Info: Daily weather forecasts for Polley Lake

Wildfire Management Branch's forecaster has the Mount Polley forecast in her workplan, and should have a forecast by around 14.00. There will be a 14.00 weather update today that you can call in to at 1-250-953-3192.

You can view the most recent daily (morning) weather briefing at this link.
<http://fwxwww1.hpr.for.gov.bc.ca/scripts/menu/BC/ShowPage.asp?page=wxbrief>

Dan, I believe you were looking for this info also.

Mark

Mark Hamm, R.P.F.
Resource Manager
Cariboo Chilcotin District
(Williams Lake)
Ministry of Natural Resource Operations
tel 250-398 4399
mob 250-398-0817
fax 250-398-4790
<mailto:Mark.Hamm@gov.bc.ca>

From: Cameron, Valerie Z FLNR:EX
Sent: Wednesday, August 6, 2014 11:44 AM
To: Hamm, Mark FLNR:EX; Weir, David J FLNR:EX; Symonds, Brian FLNR:EX
Cc: Rothman, Stephen MEM:EX; Vanderburgh, Ken FLNR:EX; Palesch, Dan TRAN:EX
Subject: RE: Map of Area Impacted by Mt. Polley Tailings Dam Failure

Hi Mark,
That would be preferable to me passing on a second hand report. Please let us know if and when the WMB reports are produced. In the short term, I will continue to pass on whatever information I can.
Valerie

From: Hamm, Mark FLNR:EX
Sent: Wednesday, August 6, 2014 11:36 AM
To: Cameron, Valerie Z FLNR:EX; Weir, David J FLNR:EX; Symonds, Brian FLNR:EX
Cc: Rothman, Stephen MEM:EX; Vanderburgh, Ken FLNR:EX; Palesch, Dan TRAN:EX
Subject: RE: Map of Area Impacted by Mt. Polley Tailings Dam Failure

Valerie, just so you know, I'm looking into whether we can get a daily spot forecast for precipitation from WMB over the next week or so.

Mark

Mark Hamm, R.P.F.
Resource Manager
Cariboo Chilcotin District
(Williams Lake)
Ministry of Natural Resource Operations
tel 250-398-4399
mob 250-398-0817
fax 250-398-4790
<mailto:Mark.Hamm@gov.bc.ca>

From: Cameron, Valerie Z FLNR:EX
Sent: Wednesday, August 6, 2014 10:25 AM
To: Weir, David J FLNR:EX; Symonds, Brian FLNR:EX
Cc: Rothman, Stephen MEM:EX; Vanderburgh, Ken FLNR:EX; Palesch, Dan TRAN:EX; Hamm, Mark FLNR:EX
Subject: RE: Map of Area Impacted by Mt. Polley Tailings Dam Failure

Hi Dave,

I just got off the Fire Weather conference call, which is held at 10 a.m. each morning. They are predicting some thunderstorm activity in the vicinity and over the next few days. I will have to go back into the recorded session to get details about precipitation amounts and temperatures, but it won't be posted until a little later today. I'll pass on the information as I receive it.

Valerie

From: Weir, David J FLNR:EX
Sent: Wednesday, August 6, 2014 10:18 AM
To: Symonds, Brian FLNR:EX
Cc: Rothman, Stephen MEM:EX; Vanderburgh, Ken FLNR:EX; Palesch, Dan TRAN:EX; Cameron, Valerie Z FLNR:EX; Hamm, Mark FLNR:EX
Subject: RE: Map of Area Impacted by Mt. Polley Tailings Dam Failure

Hi Brian, I am heading up right now to Mt Polley. I am taking a sat phone for Stephen who is the mines contact Sat number ^{s.15}. Can we provide Stephen with a daily detailed weather forecast through the river forecast center? I am thinking that if the forecast center does the daily and long term forecast then we can have the fire center provide thunderstorm warnings locally as they track lightning strikes?

On the road now.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake, BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Symonds, Brian FLNR:EX
Sent: Wednesday, August 6, 2014 9:59 AM
To: Ethier, Tom FLNR:EX
Cc: Cameron, Valerie Z FLNR:EX; Mason, Wenda FLNR:EX; Bekker, Pieter FLNR:EX; Weir, David J FLNR:EX
Subject: Map of Area Impacted by Mt. Polley Tailings Dam Failure

Please find attached rudimentary local area maps and a copy of the Declaration of State of Local Emergency for your information.

Brian Symonds
Director , Water Stewardship
Tel: (250) 490-8255 Fax: (250) 490-2231

Weir, David J FLNR:EX

From: Cameron, Valerie Z FLNR:EX
Sent: Wednesday, August 6, 2014 11:44 AM
To: Hamm, Mark FLNR:EX; Weir, David J FLNR:EX; Symonds, Brian FLNR:EX
Cc: Rothman, Stephen MEM:EX; Vanderburgh, Ken FLNR:EX; Palesch, Dan TRAN:EX
Subject: RE: Map of Area Impacted by Mt. Polley Tailings Dam Failure

Hi Mark,

That would be preferable to me passing on a second hand report. Please let us know if and when the WMB reports are produced. In the short term, I will continue to pass on whatever information I can.

Valerie

From: Hamm, Mark FLNR:EX
Sent: Wednesday, August 6, 2014 11:36 AM
To: Cameron, Valerie Z FLNR:EX; Weir, David J FLNR:EX; Symonds, Brian FLNR:EX
Cc: Rothman, Stephen MEM:EX; Vanderburgh, Ken FLNR:EX; Palesch, Dan TRAN:EX
Subject: RE: Map of Area Impacted by Mt. Polley Tailings Dam Failure

Valerie, just so you know, I'm looking into whether we can get a daily spot forecast for precipitation from WMB over the next week or so.

Mark

Mark Hamm, R.P.F.
Resource Manager
Cariboo Chilcotin District
(Williams Lake)
Ministry of Natural Resource Operations

tel 250-398-4399
mob 250-398-0817
fax 250-398-4790
<mailto:Mark.Hamm@gov.bc.ca>

From: Cameron, Valerie Z FLNR:EX
Sent: Wednesday, August 6, 2014 10:25 AM
To: Weir, David J FLNR:EX; Symonds, Brian FLNR:EX
Cc: Rothman, Stephen MEM:EX; Vanderburgh, Ken FLNR:EX; Palesch, Dan TRAN:EX; Hamm, Mark FLNR:EX
Subject: RE: Map of Area Impacted by Mt. Polley Tailings Dam Failure

Hi Dave,

I just got off the Fire Weather conference call, which is held at 10 a.m. each morning. They are predicting some thunderstorm activity in the vicinity and over the next few days. I will have to go back into the recorded session to get details about precipitation amounts and temperatures, but it won't be posted until a little later today. I'll pass on the information as I receive it.

Valerie

From: Weir, David J FLNR:EX
Sent: Wednesday, August 6, 2014 10:18 AM
To: Symonds, Brian FLNR:EX
Cc: Rothman, Stephen MEM:EX; Vanderburgh, Ken FLNR:EX; Palesch, Dan TRAN:EX; Cameron, Valerie Z FLNR:EX; Hamm, Mark FLNR:EX
Subject: RE: Map of Area Impacted by Mt. Polley Tailings Dam Failure

Hi Brian, I am heading up right now to Mt Polley. I am taking a sat phone for Stephen who is the mines contact Sat number [s.15](#) Can we provide Stephen with a daily detailed weather forecast through the river forecast center? I am thinking that if the forcast center does the daily and long term forecast then we can have the fire center provide thunderstorm warnings locally as they track lightning strikes?

On the road now.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake , BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Symonds, Brian FLNR:EX
Sent: Wednesday, August 6, 2014 9:59 AM
To: Ethier, Tom FLNR:EX
Cc: Cameron, Valerie Z FLNR:EX; Mason, Wenda FLNR:EX; Bekker, Pieter FLNR:EX; Weir, David J FLNR:EX
Subject: Map of Area Impacted by Mt. Polley Tailings Dam Failure

Please find attached rudimentary local area maps and a copy of the Declaration of State of Local Emergency for your information.

Brian Symonds
Director , Water Stewardship
Tel: (250) 490-8255 Fax: (250) 490-2231

Weir, David J FLNR:EX

From: Cameron, Valerie Z FLNR:EX
Sent: Wednesday, August 6, 2014 10:25 AM
To: Weir, David J FLNR:EX; Symonds, Brian FLNR:EX
Cc: Rothman, Stephen MEM:EX; Vanderburgh, Ken FLNR:EX; Palesch, Dan TRAN:EX; Hamm, Mark FLNR:EX
Subject: RE: Map of Area Impacted by Mt. Polley Tailings Dam Failure

Hi Dave,

I just got off the Fire Weather conference call, which is held at 10 a.m. each morning. They are predicting some thunderstorm activity in the vicinity and over the next few days. I will have to go back into the recorded session to get details about precipitation amounts and temperatures, but it won't be posted until a little later today. I'll pass on the information as I receive it.

Valerie

From: Weir, David J FLNR:EX
Sent: Wednesday, August 6, 2014 10:18 AM
To: Symonds, Brian FLNR:EX
Cc: Rothman, Stephen MEM:EX; Vanderburgh, Ken FLNR:EX; Palesch, Dan TRAN:EX; Cameron, Valerie Z FLNR:EX; Hamm, Mark FLNR:EX
Subject: RE: Map of Area Impacted by Mt. Polley Tailings Dam Failure

Hi Brian, I am heading up right now to Mt Polley. I am taking a sat phone for Stephen who is the mines contact Sat number ^{s.15}. Can we provide Stephen with a daily detailed weather forecast through the river forecast center? I am thinking that if the forecast center does the daily and long term forecast then we can have the fire center provide thunderstorm warnings locally as they track lightning strikes?

On the road now.

David Weir
Water Section Head,
Ministry of Forest Lands and Natural Resource Operations
Williams Lake, BC
David.J.Weir@gov.bc.ca
(250) 398 4924
Cell 250 267-5925

From: Symonds, Brian FLNR:EX
Sent: Wednesday, August 6, 2014 9:59 AM
To: Ethier, Tom FLNR:EX
Cc: Cameron, Valerie Z FLNR:EX; Mason, Wenda FLNR:EX; Bekker, Pieter FLNR:EX; Weir, David J FLNR:EX
Subject: Map of Area Impacted by Mt. Polley Tailings Dam Failure

Please find attached rudimentary local area maps and a copy of the Declaration of State of Local Emergency for your information.

Brian Symonds
Director , Water Stewardship
Tel: (250) 490-8255 Fax: (250) 490-2231