



Mount Polley Mining Corporation

an Imperial Metals company

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Community Update

Mount Polley Mine 2018 Summary

Mining Operations

On January 7, 2019, Imperial Metals reported that operations at Mount Polley would cease at the end of May 2019. Environmental monitoring and remediation program will continue during the care and maintenance period.

- ◆ Mining in the Caribou Pit ceased at the end of Q4 2018.
- ◆ Buttressing of the Tailings Storage Facility (TSF) to 968 meter elevation completed at Corner 1.

Remediation Highlights

- ◆ Polley Lake rainbow trout fish were re-introduced into the 2.6 km of remediated area of upper Hazeltine Creek on April 26, 2018 for spawning with great success.
- ◆ One kilometer of fish habitat in Hazeltine Creek was completed downstream of the Gavin Lake Road bridge. Outstanding projects are expected to continue in 2019.
- ◆ Mount Polley hosted the British Columbia Technical Research Committee on Reclamation tour on September 18, 2018.
- ◆ Approximately 11,300 rainbow trout from Mount Polley’s on-site hatchery were released into Polley Lake on September 25 and 26, 2018.

Our People



	2018	
Total Employees on Payroll	266	100%
First Nations Employees	23	8.6%
First Nations Employees identifying as Williams Lake	3	1.1%
First Nations Employees identifying as Soda Creek	2	0.75%
Managers and Staff	79	30%
Female Employees	42	16%
Male Employees	224	84%
Average Age	45.6	-

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MPMC EVENTS

Quarter 4 2018

October 2:

Public Liaison Committee meeting (PLC) & tour with the Mining Association of Canada and their Community of Interest panel

October 16:

Implementation Committee (IC) meeting with Williams Lake & Soda Creek Indian Bands

November 19:

PLC meeting to discuss Terms of Reference

December 7 & 13:

MPMC Holiday Party

December 11:

IC meeting with Williams Lake & Soda Creek Indian Bands

December 11, 12, 14 & 15:

Community presentations in Sugar Cane, Quesnel, Williams Lake, and Likely.

Quarter 1 2019

January TBD:

IC meeting with Williams Lake & Soda Creek Indian Bands

February TBD:

PLC conference call

Why does the creek look like this?

A lot of work goes into rebuilding a creek. While it may look like the woody and rocky debris are scattered in haphazard manner, a lot of science and engineering are behind those ‘messy’ placements. Nature rarely builds things neatly, so when it comes to rebuilding a creek, experts must take that into account.

Creeks and rivers naturally bend or ‘meander’ (rarely do water bodies flow in a straight line) to form ‘S’ curves. Common features of these creeks are riffles and pools. Riffles are piles of rocks that are built up to control flow rates and aerate the water. Pools are deeper sections of creeks, and in addition to instream and overstream boulders and logs, provide shelter for fish.

The riparian areas, the parts adjacent to the creek, are just as important. In Hazeltine Creek, the sides of the channel have been rocked in to provide stream stabilization to prevent erosion. The earth has been moved (roughened and loosened) and mounded to allow for planting; this will give the roots more room to establish compared to compacted ground. Deeper roots will also help prevent erosion of the stream bank. The vegetation will provide additional cover for fish. The woody debris and upturned trees provide avian and small mammal habitat, and eventually, additional nutrients for the soil during decomposition.

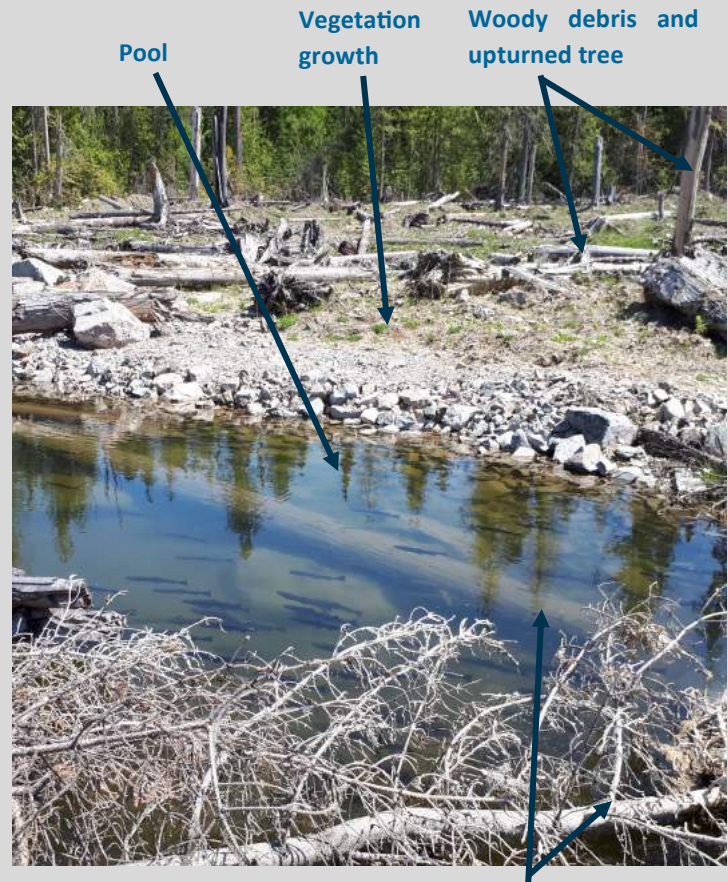


Figure 1. Growth of remediated areas and fish habitat use, 2018

Figure 2 below depicts a section of Hazeltine creek (with a meander) that was constructed in 2016 with fish habitat features as described above. The same design replicated throughout the creek in 2017 and 2018 in upper Hazeltine to 1km downstream of the Gavin Lake bridge. In Figure 1 above, shows 2 years of vegetation growth in the riparian areas, and that the reintroduced fish are utilizing the habitat provided (ie. cover of the deep pools and instream logs).

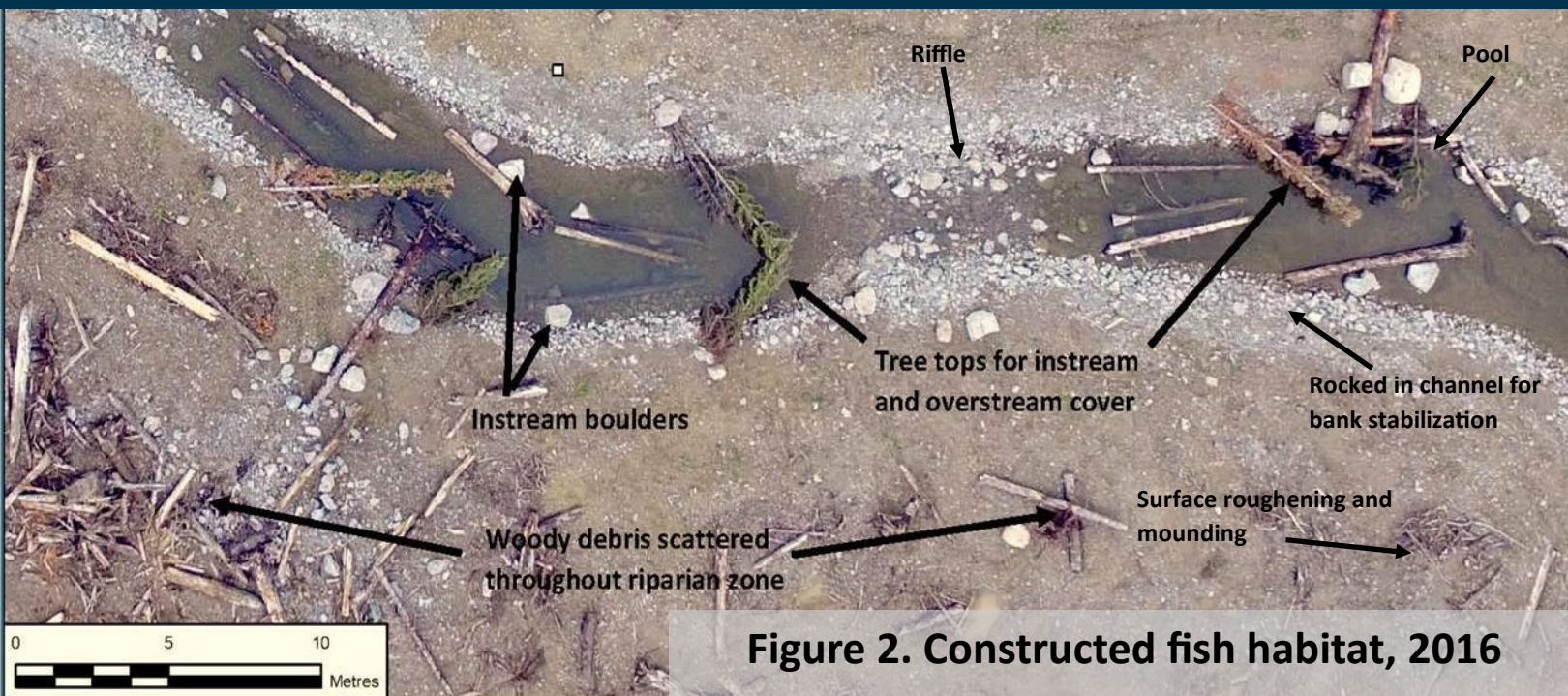


Figure 2. Constructed fish habitat, 2016

Lower Hazeltine Creek Remediation (view from Ditch Road Bridge)



November 2014

Sediment and erosion control fencing to prevent native material from entering creek



June 2015

Tailings in and adjacent to creek removed. Wood chips and woody debris added to banks for additional nutrients on both banks

Channel rocked in for stability with meanders



May 2016

Grass seeding and planting willow stalks for additional erosion control on both floodplains and upper banks



September 2017

Continued growth of willows, shrubbery and grasses along the banks

Surface roughening and mounding for planting native shrubs (eg. Prickly rose)

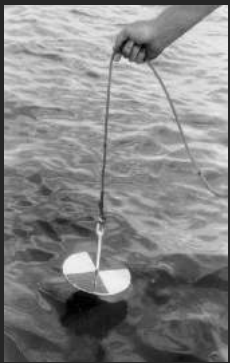


September 2018

Continued growth of willows, shrubbery and grasses along the banks

Surface roughening and mounding providing root strength for continuous growth. Coniferous tree plugs planted. Ongoing remediation planned for 2019-2020.

Community Lake Monitoring



There are many ways for interested individuals to get involved in monitoring their lake, like becoming a member of the British Columbia Lake Stewardship Society (BCLSS). The Secchi disk provides a measurement of water transparency according to the depth. It involves lowering a black and white Secchi disk into the water and recording the depth (usually in metres) until it is no longer visible.

To learn more, please visit:

- ◆ BC Lake Stewardship Society <http://www.bclss.org/>
- ◆ Secchi Dip-In <http://secchidipin.org/>

'Lyn Anglin, the Chief Scientific Officer of Imperial Metals and MPMC, is retiring in 2019. As a token of thanks, she received a pendant made of copper and bornite (not pictured) from Twist N' Copper.



Twist N' Copper is a home based business from Big Lake in the Cariboo, run by Lori Snodgrass. Find her on Facebook under Twist N' Copper or email lsnod_bl@hotmail.com. Pendant shown is labradorite and copper wire

Mount Polley Mine – Public Liaison Committee (PLC)

The PLC was first established in 1999 as a means for Mount Polley Mine Corporation (MPMC) to form and maintain good relations with the local community. This was a condition in the original Environmental Assessment Report approving the mine to proceed in 1992. The PLC is now a condition of the mine's *Environmental Management Act Permit 11678* and is mandated to "meet at least quarterly to share and receive information about mine activities and the results of monitoring programs with interested members of the public, the Soda Creek Indian Band, the Williams Lake Indian Band, and regulating agencies." The PLC is intended to be an information sharing body and to encourage communication between MPMC, the public, local communities, public interest groups, First Nations groups, regulators and other interested parties.

The PLC is a multi-stakeholder group with membership representing broad, interest-based groups. The membership presently includes representatives from local communities (Likely, Big Lake, Horsefly and Williams Lake), First Nations, several government ministries, and representatives of the mine. The PLC recently went through an exercise to update its Terms of Reference. By joining the PLC, members are agreeing to openly share information that they receive from the mine with their communities, and to bring questions about the mine from their communities to the PLC. At the last PLC meeting, held in October at the mine, the group was joined by representatives of the Mining Association of Canada's Communities of Interest Panel, who attended to observe MPMC's PLC in action, and participate in a mine site tour with the PLC.

PLC meetings occur, at minimum, on a quarterly basis. Next PLC meeting is tentatively scheduled for February 25th, 2019.

If you are interested in the activities of the PLC, or perhaps in becoming a member of the committee, please do not hesitate to contact Valerie Holweck, Environmental Coordinator, Mount Polley Mine. She can be reached through the Mount Polley Mine general number: 250-790-2215. If you are interested in joining the PLC, please provide Valerie with your name, contact telephone number and email.

There were over 320 wildlife sightings by MPMC employees and contractors in 2018. Swans, black bears, and Western toads were the top 3 sightings along with moose, lynx, mule deer, and grouse also observed around the site.



Please visit the Imperial Metals website for more information about MPMC's reports and ongoing projects:

<https://www.imperialmetals.com/our-operations/mount-polley-mine/mount-polley-updates>