



Mount Polley Mining Corporation

an Imperial Metals company

Box 12 • Likely, BC V0L 1N0 • T 250.790.2215 • F 250.790.2613

March 20, 2015

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

WEEKLY POST-TSF BREACH REPORT – WEEK OF MARCH 11 – 17, 2015 (REVISION 1)

Water Management

Polley Lake Dewatering	Polley Lake water elevation = 922.23 m (March 16 th) Water levels are currently within the typical range. Polley Lake is frozen and all pumping infrastructure was removed in late November. Elevation surveys are being taken weekly.
TSF Water Management	This week, an internal berm within the TSF experienced a failure; however, there was no water released as a result. All water continues to be transferred to the Springer Pit via the Central Collection Sump. Systems were able to contain the melting of average site snowpack from 103mm snow water equivalent to 18 mm snow water equivalent. Please refer to previous weekly reports for an overview map of the system.

Sediment and Erosion Control Measures

Silt Curtain	The turbidity barrier (silt curtain) installed in Quesnel Lake near the outlet of the new Edney (Hazeltine) Creek channel, downstream from the Lower Hazeltine Creek sedimentation ponds is in good condition.
General	<p>Environmental monitors are monitoring creek sediment and erosion control and reclamation work in Upper, Middle, and Lower Hazeltine Creek.</p> <p>14,560 tonnes of rock and 40 tonnes of rip rap were hauled to the Hazeltine Creek areas for use in reclamation work.</p> <p>Rock liner material being used is low sulphur rock from the Cariboo Pit and a sampling program is in place to verify the chemistry of the rock. A sampling program to verify chemistry of creek subgrade material after tailings have been removed is also in place. Screening of material for creation of fish habitat features at an on-site gravel pit is ongoing.</p>

Upper Hazeltine Creek	<p>Construction of the Polley Lake outlet structure is underway. All of the sheet piles have been installed to the required depth, and lock block placement and backfill is underway.</p> <p>Construction of the flood plain and rocking in of the channel has been completed in Reach 1 and Reach 2 to within 100 metres of the Gavin Lake Road bridge.</p>
Middle Hazeltine Creek	<p>In Reach 3, rocking in of the channel downstream of the Gavin Lake Road bridge commenced and approximately 500m was completed this week. Grading out of the flood plain and filling in of the glacial till cuts commenced.</p>
Lower Hazeltine Creek	<p>In Reach 5 channel construction downstream of the Ditch Road bridge, including creation of fish habitat features and placement of spawning gravel, is complete. Channel construction in the 50 metres upstream of the Ditch Road bridge is awaiting more favourable weather and runoff conditions.</p> <p>Recontouring and application of wood chip mulch and coarse woody debris for reclamation purposes is ongoing. Capping of exposed glacial till deposits to reduce erosion is ongoing.</p>
Edney Creek	<p>Upgrades to the creek channel berm at a corner in Lower Edney Creek were completed to manage high flows associated with spring runoff. The flood plain in this section is being constructed and tied into the shoreline.</p>

Government, First Nations and Stakeholder Engagement

Publication of Monitoring Results and Rehabilitation Updates	<p>Mount Polley will continue to present interpreted environmental monitoring results and updates on remediation work on the Mount Polley Updates page of the Imperial Metals website (www.imperialmetals.com). No updates were posted this week.</p>
Engagement Activities and Communications with Regulators	<p>Activities relating to government, First Nations, and stakeholder communication and engagement this week included:</p> <ul style="list-style-type: none"> • Weekly Ministry of Environment (MoE) update meeting. • Tour of Hazeltine Creek was provided to MoE and Fisheries and Ocean Canada (DFO) representatives on March 11th. • Mount Polley presented at the Soda Creek community meeting March 11th. • MoE Environmental Working Group meeting March 13th.

TSF Construction

TSF Construction	<p>The amendment to permit M-200 approving repair of the TSF breach to manage 2015 freshet was received from the Ministry of Mines on December 17th. An update on work being completed under this approval is as follows:</p> <ul style="list-style-type: none">• Foundation preparation and material placement for Perimeter Embankment buttressing is ongoing.• Upstream Fill material placement for the cut-off wall is ongoing.• CSM (cutter soil mixing) Wall construction is ongoing.• Foundation preparation and placement immediately downstream of the cut-off wall (Phase 2 footprint) is ongoing. <p>Project components that have been completed under this approval are:</p> <ul style="list-style-type: none">• Bulk excavation of the North and South Abutments (the embankments to the north and south of the breach).• Construction of seepage collection drains in the cut-off wall foundation footprint.• Foundation preparation for the cut-off wall.• Foundation Filter blanket material placement for the cut-off wall.• Foundation Transition blanket material placement for the cut-off wall.• Extension of the seepage collection drains through the Phase 1 footprint.• Construction of a pad and laydown area for the CSM Contractor to erect infrastructure and mobilize equipment.• Foundation preparation immediately downstream of the cut-off wall (Phase 1 footprint).• SAA instrumentation installation.• Mobilization of CSM Contractor infrastructure and equipment.• North Abutment tie-in material placement to the 950m elevation.• North Abutment accelerated construction fill placement in the Phase 1 footprint to the 950m elevation to facilitate commencement of the CSM Wall construction.• Cut-off Wall Aggregate material placement for the cut-off wall.• Transition material placement for the cut-off wall.• Buttress placement immediately downstream of the cut-off wall (Phase 1 footprint).• Compacted Rockfill material placement for the cut-off wall.
-------------------------	--

Water Quality Monitoring Program

<p>Water Quality Monitoring Sites</p>	<p>The water quality monitoring program currently consists of weekly samples at:</p> <ul style="list-style-type: none"> • QUR-1 (Quesnel River at the Quesnel River Research Centre) • HAC-08 (Hazeltine Creek upstream of the sedimentation ponds) • HAC-01b (Hazeltine Creek at the outlet of the sedimentation ponds) • EDC-02 (Edney Creek downstream of the new confluence with Hazeltine Creek below the sedimentation ponds and just upstream of Quesnel Lake). <p>All scheduled sampling was completed this week, as well as supplemental sampling at EDC-01 (Edney Creek just upstream from the confluence with Hazeltine). Weekly sampling at site HAC-05 (Hazeltine Creek at the Gavin Lake Road) has been temporarily discontinued because active reclamation and erosion control works are ongoing in this section of the creek.</p> <p>Monitoring of Quesnel Lake this week included:</p> <ul style="list-style-type: none"> • Profiles at sites: QUL-21a, QUL-18, QUL-54, QUL-55, QUL-56, QUL-2a, QUL-79, QUL-40a, and QUL-120a • Samples at sites: QUL-18, QUL-55, and QUL-120a <p>Sites QUL-54, -55 and -56 were established this week at the mouth of the new Hazeltine Creek channel and will be the near field monitoring sites moving forwards. A map of these new locations is provided as Attachment 1.</p>
<p>Continuous Monitoring</p>	<p>The monitoring program also includes a sonde (datalogger) that is deployed in the Quesnel River at monitoring site QUR-1. The sonde measures field parameters (turbidity, pH, specific conductance, dissolved oxygen, and temperature) every 15 minutes. A second sonde which measures the same parameters at the same frequency is deployed at the outlet of the Lower Hazeltine Creek sedimentation ponds.</p>
<p>Results</p>	<p>Figure 1 shows a turbidity time series graph for Lower Hazeltine Creek since commissioning of the sedimentation ponds on December 12th. From February 15th onward (after Edney Creek was diverted from the sedimentation ponds into its new channel, which converges with Hazeltine Creek downstream of the sedimentation ponds), data are shown for Hazeltine and Edney Creeks upstream and downstream of their confluence.</p> <p>Figure 2 shows a time series graph of turbidity at site QUR-1. Turbidity data are from laboratory analysis completed by ALS Environmental.</p> <p>Figure 3 shows a turbidity and temperature profile from March 12th at site QUL-18 in Quesnel Lake (at the deepest point of the West Basin, downstream of the Hazeltine Creek mouth).</p>

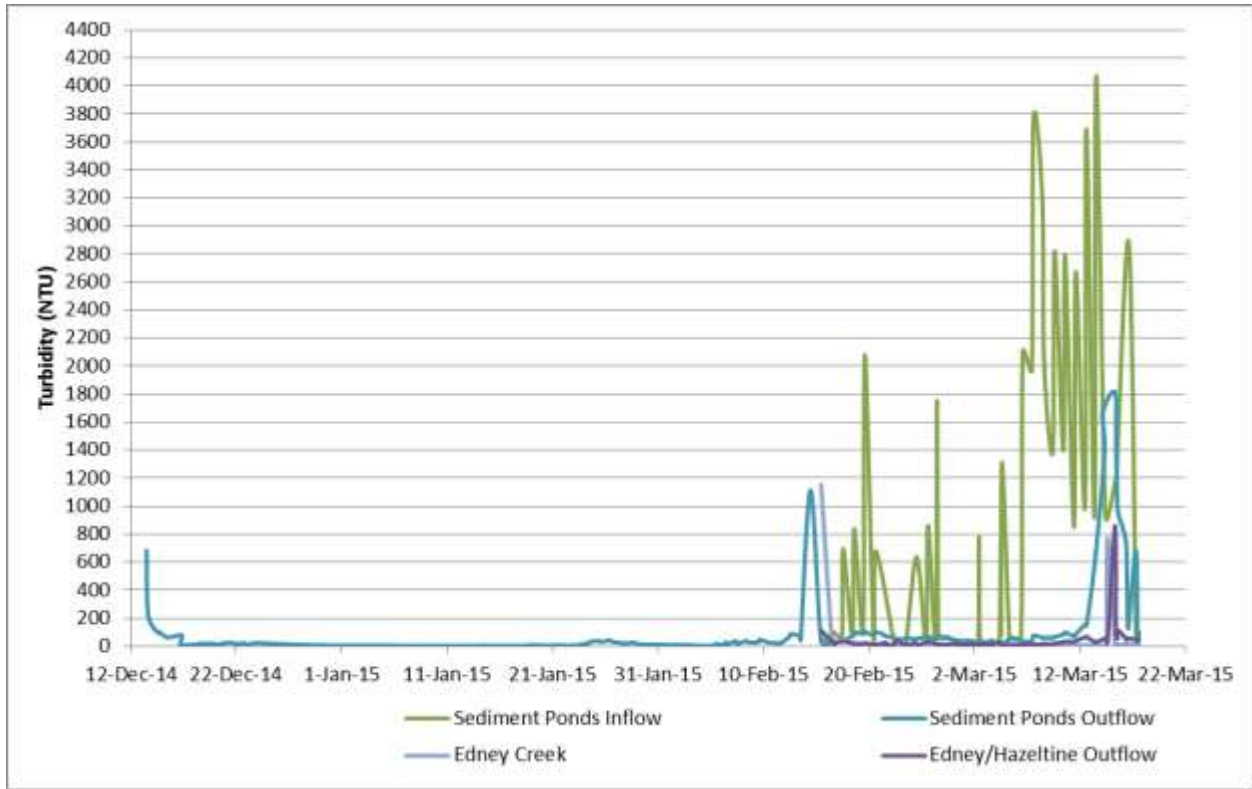


Figure 1. Turbidity time series graph for Hazeltine Creek upstream of the sedimentation ponds (February 15th – March 17th), downstream of the sedimentation ponds (December 12th – March 17th), for Edney Creek in its new channel (February 15th – March 17th), and the combined Edney/Hazeltine Creek outflow into Quesnel Lake (February 15th – March 17th)

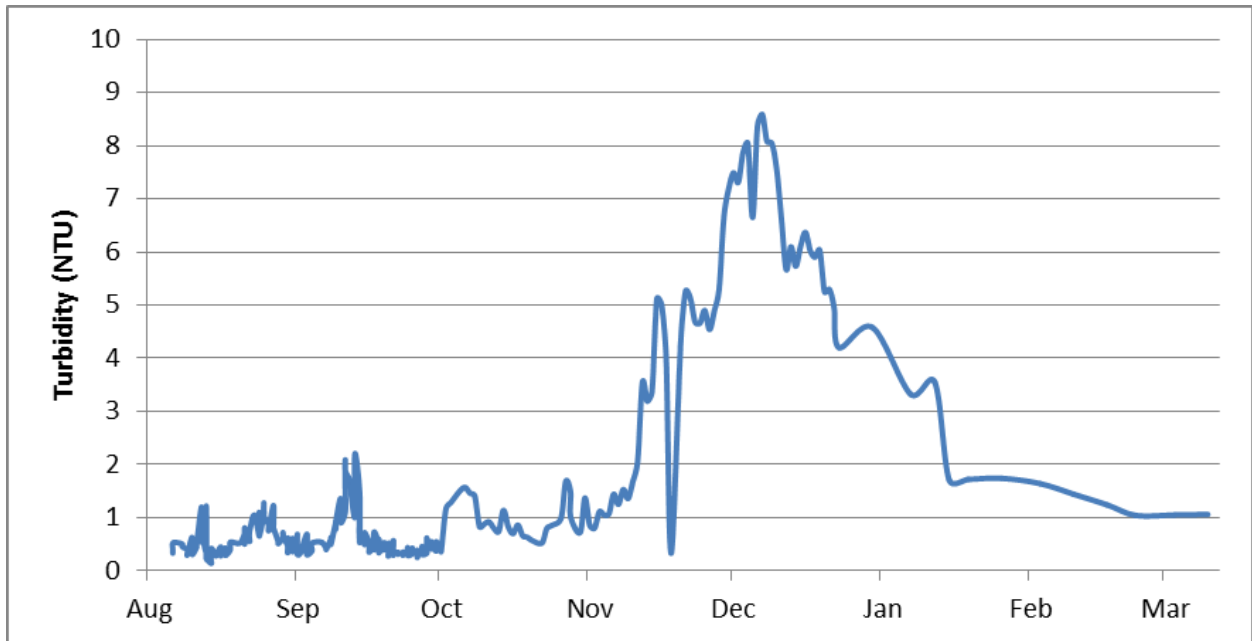


Figure 2. Turbidity time series at sample location QUR-1 (August 6th – March 10th)

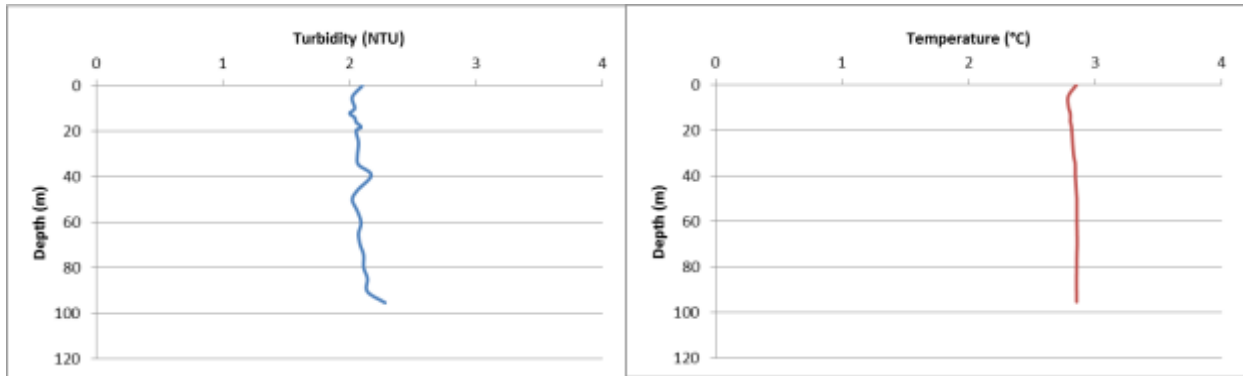
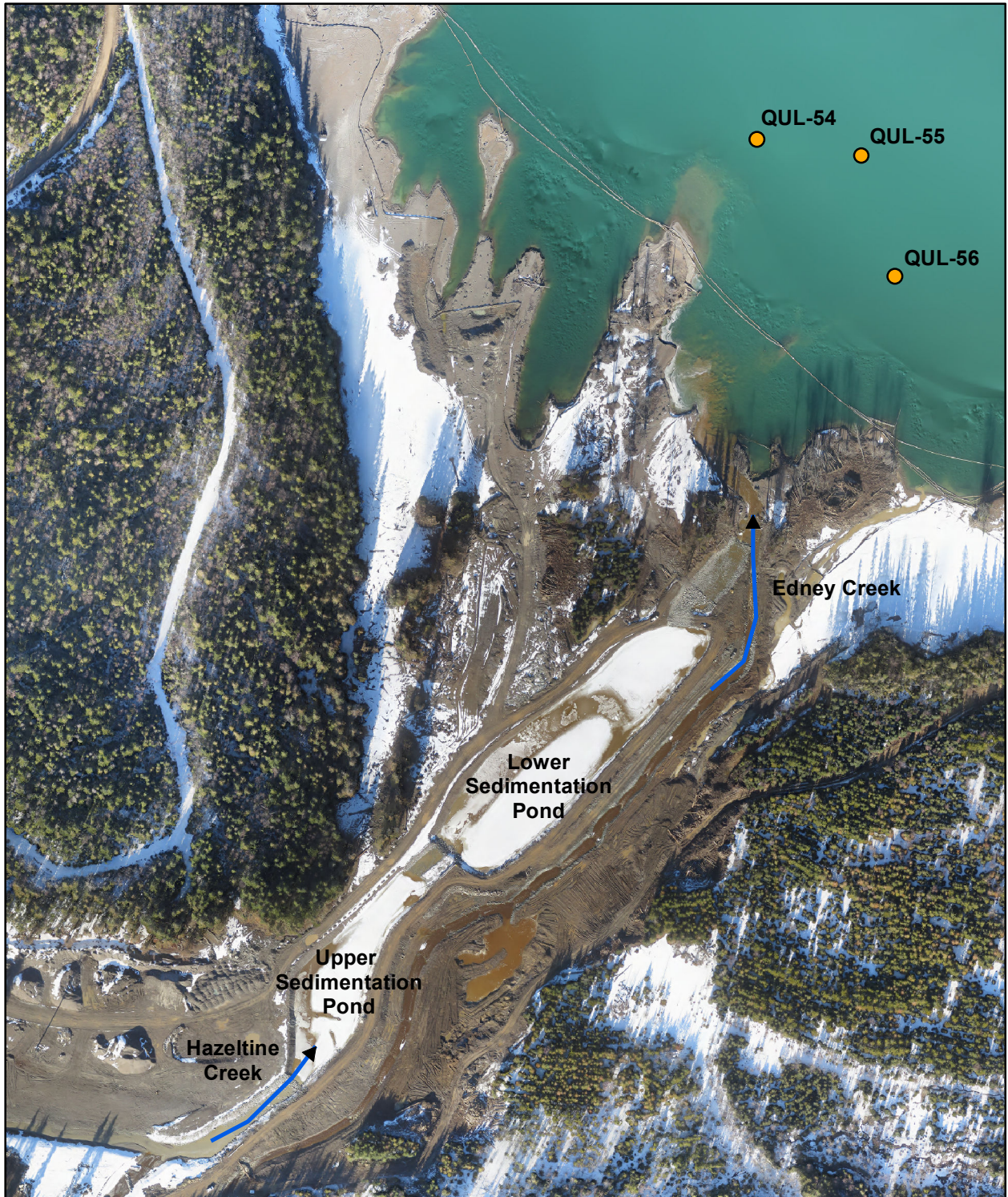


Figure 3. Turbidity and temperature profiles from site QUL-18 (March 12th)

Attachments

Attachment 1: Map of New Hazeltine Creek Mouth Monitoring Locations



MOUNT POLLEY MINING CORPORATION

Figure 1. New sample locations at the mouth of Hazeltine Creek

DRAFT

Drawn by: KM

Date: 20/03/2015

