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May 21, 2015

Ministry of Environment
 Mining Operations Environmental Protection
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WEEKLY POST-TSF BREACH REPORT – WEEK OF MAY 13 – 19, 2015

Water Management

Polley Lake Dewatering	Polley Lake water elevation = 922.59 m (May 19 th) With channel excavation and armouring completed, the weir valve was gradually re-opened to allow ~0.35 m ³ /s of outflow from Polley Lake into Hazeltine Creek.
TSF Water Management	All water from the Tailings Storage Facility (TSF) water collection system continues to be transferred to the Springer Pit via the Central Collection Sump. No releases of water to the environment occurred this week. Please refer to previous weekly reports, such as the December 31 st , 2014 report, for an overview map of the water management system.

Government, First Nations and Stakeholder Engagement

Publications	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). This week: <ul style="list-style-type: none"> • A Community Update Bulletin was published on May 13th. • A link to recent Ministry of Environment (MoE) water sampling results was published on May 14th.
Engagement Activities and Communications with Regulators	Activities relating to government, First Nations, and stakeholder communication and engagement this week included: <ul style="list-style-type: none"> • An Environmental Working Group meeting on May 13th. • A tour of Hazeltine Creek rehabilitation work with representatives of the MoE, Fisheries and Oceans Canada, Ministry of Mines (MEM), and Ministry of Forests, Lands and Natural Resource Operations on May 13th. • A public open house in Likely on May 13th. • A tour of Hazeltine Creek rehabilitation work with the Mining Association of British Columbia Vice President of Environment and Technical Affairs on May 14th.

Sediment and Erosion Control Measures

Silt Curtain	The turbidity barrier (silt curtain) installed in Quesnel Lake near the outlet of the constructed Edney (Hazeltine) Creek channel, downstream from the Lower Hazeltine Creek sedimentation ponds, is in good condition.
Monitoring	Environmental monitors are monitoring ongoing sediment and erosion control and rehabilitation work. This monitoring is being conducted by MPMC staff.
Hazeltine Creek Reconstruction	<p>Construction of the mean annual flood channel and floodplain grading are complete and the creek is flowing in the armoured channel for the full length of Hazeltine Creek, with the exception of the canyon sections, which primarily have a bedrock substrate.</p> <p>In Reach 3, stabilization and re-contouring of slopes adjacent to the channel was completed in the section from 6,000m to 6,600m downstream of Polley Lake, with the exception of one large erosional feature.</p>
Lower Hazeltine Creek Reclamation	<p>Land reclamation work on disturbed areas adjacent to Lower Hazeltine Creek, including roadsides and construction laydowns, is ongoing. Work includes re-contouring, surface roughening, application of woodchips, and spreading of coarse woody debris.</p> <p>A crew from the Soda Creek First Nation and a crew from a local silviculture contractor continued working on the floodplain re-vegetation program. To date, 8,350 live willow stakes and over 20,000 deciduous trees and shrubs have been planted. Over two kilometers of willow wattles have also been installed.</p>

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 MEM on December 17th, 2014. An update on work being completed under this approval is as follows:</p> <ul style="list-style-type: none"> • Foundation preparation for the Perimeter Embankment buttressing was completed this week. • Upstream Fill material placement for the cut-off wall was completed this week. • Buttress placement for the Perimeter Embankment is ongoing. <p>A site inspection and review of construction records was carried out by the Engineer or Record on May 14th and 15th, 2015. Based on the observations made during the inspection and the review of the construction records, a memorandum was issued to MPMC by the Engineer of Record with the opinion that the construction met the design intent.</p> <p>Project components that have been previously completed under this approval are detailed in the May 7th 2015 and March 26th, 2015 reports.</p>
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Water Quality Monitoring Program

Water Quality Monitoring Sites	The current water quality monitoring program is outlined in the table below. This week, the sampling frequency at station QUR-1 was reduced to bi-monthly, as per the monitoring plan submitted to, and approved by, MoE. All monitoring was completed as scheduled this week.			
	Area	Monitoring Type	Frequency	Stations
	Polley Lake	Samples	Monthly	P1, P2
		Profiles	Bi-monthly	P1, P2
	Hazeltine Creek	Samples	Weekly	HAC-01b
			Monthly	HAC-05, HAC-08, HAC-10
	Edney Creek	Samples	Weekly	EDC-02
			Monthly	EDC-01
	Quesnel Lake	Profiles	Weekly	QUL-54, QUL-55, QUL-56
		Profiles	Bi-monthly	QUL-21a, QUL-18, QUL-66a, QUL-2a, QUL-79
Profiles		Monthly	QUL-40a, QUL-120a	
Samples		Weekly	QUL-55	
Samples		Monthly	QUL-2a, QUL-18, QUL-40a, QUL-120a	
Quesnel River	Samples	Bi-monthly	QUR-1	
	Please refer to previous weekly reports, such as the May 7 th , 2015 report, for a map of these sampling locations.			
Continuous Monitoring	The monitoring program also includes a sonde (datalogger) that is deployed in the Quesnel River at monitoring station 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.			
Results	<p>Figure 1 shows a time series graph for this week of daily field turbidity readings in Lower Hazeltine Creek upstream and downstream of the sedimentation ponds (stations HAC-09 and HAC-01b, respectively), and Edney Creek downstream of the confluence with Hazeltine Creek (station EDC-02). Figure 2 shows turbidity levels at these same sites over a longer time period to provide context for this week's data.</p> <p>Figure 3 shows a turbidity and temperature profile from May 19th at site QUL-55, a near field site in Quesnel Lake at the mouth of Hazeltine Creek.</p> <p>Figure 4 shows a time series graph of turbidity at site QUR-1. Turbidity data are from laboratory analysis completed by ALS Environmental.</p>			

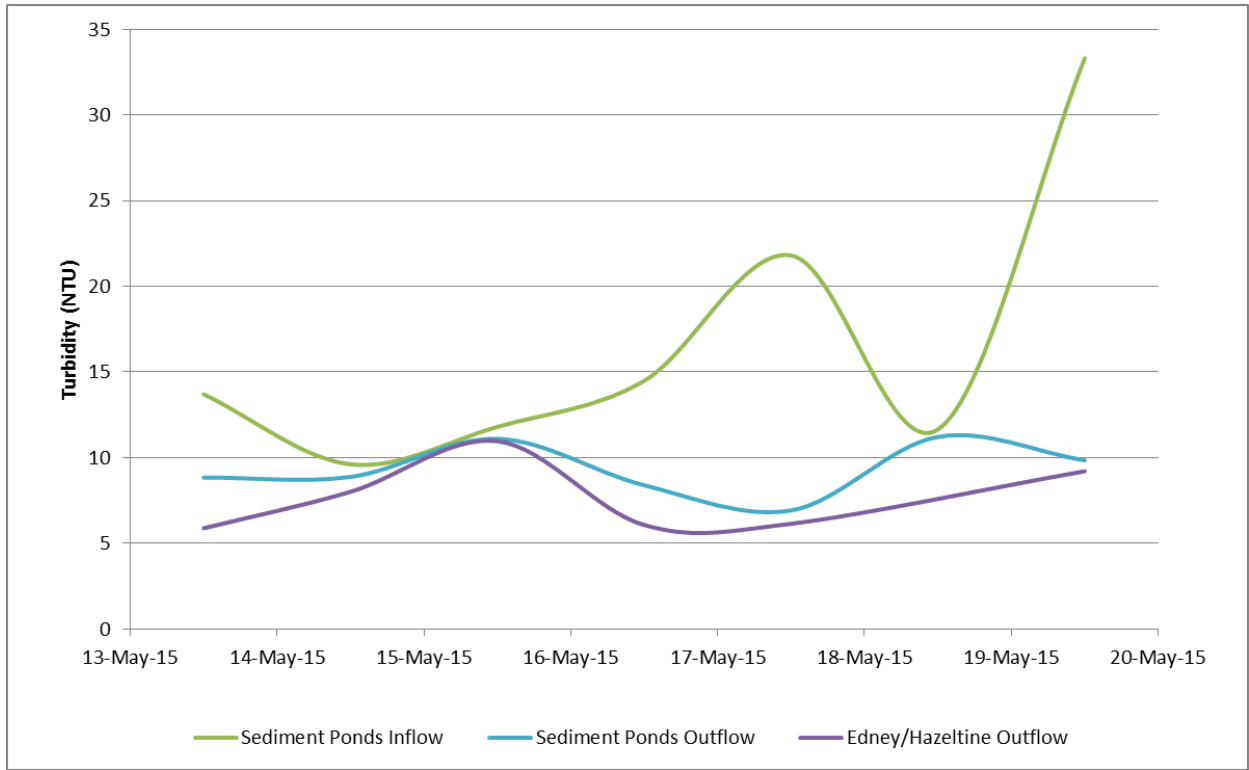


Figure 1. Time series graph for May 13th - 19th showing turbidity levels at monitoring locations in Hazeltine Creek

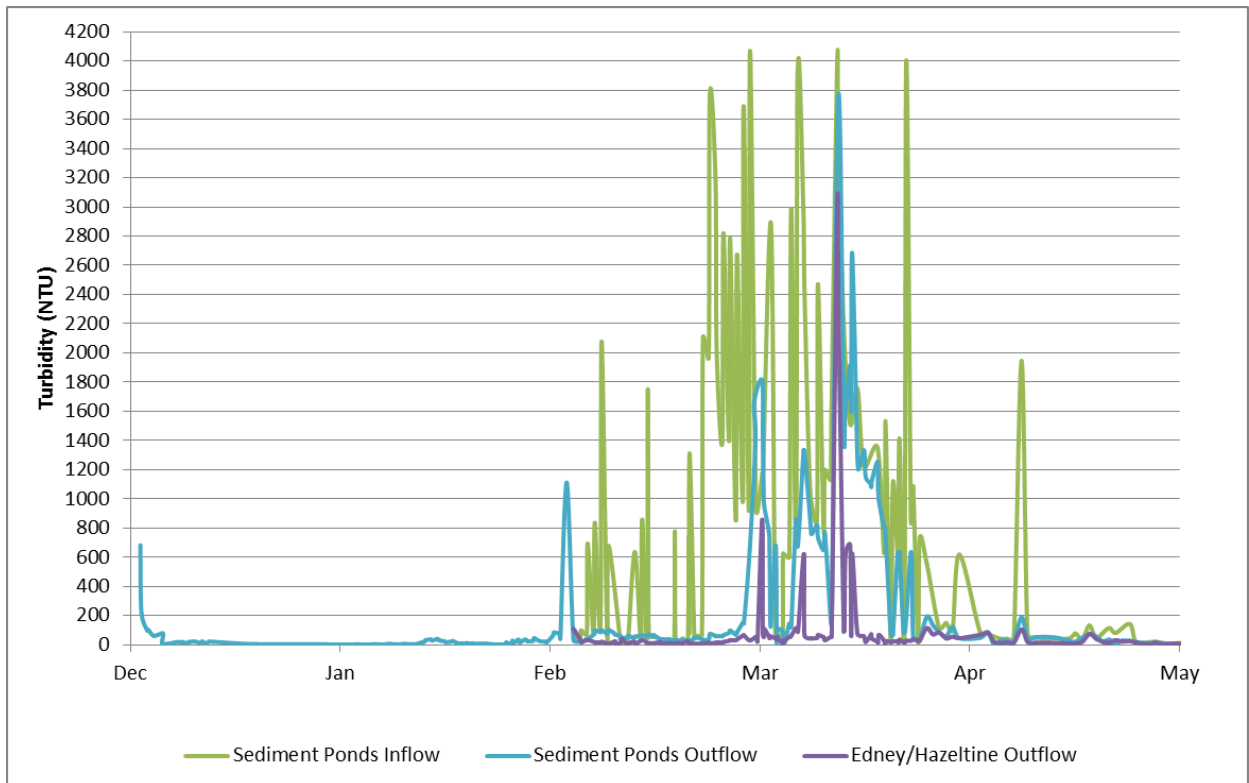


Figure 2. Time series graph for December 12th, 2014 to May 19th, 2015 showing turbidity levels at monitoring locations in Hazeltine Creek

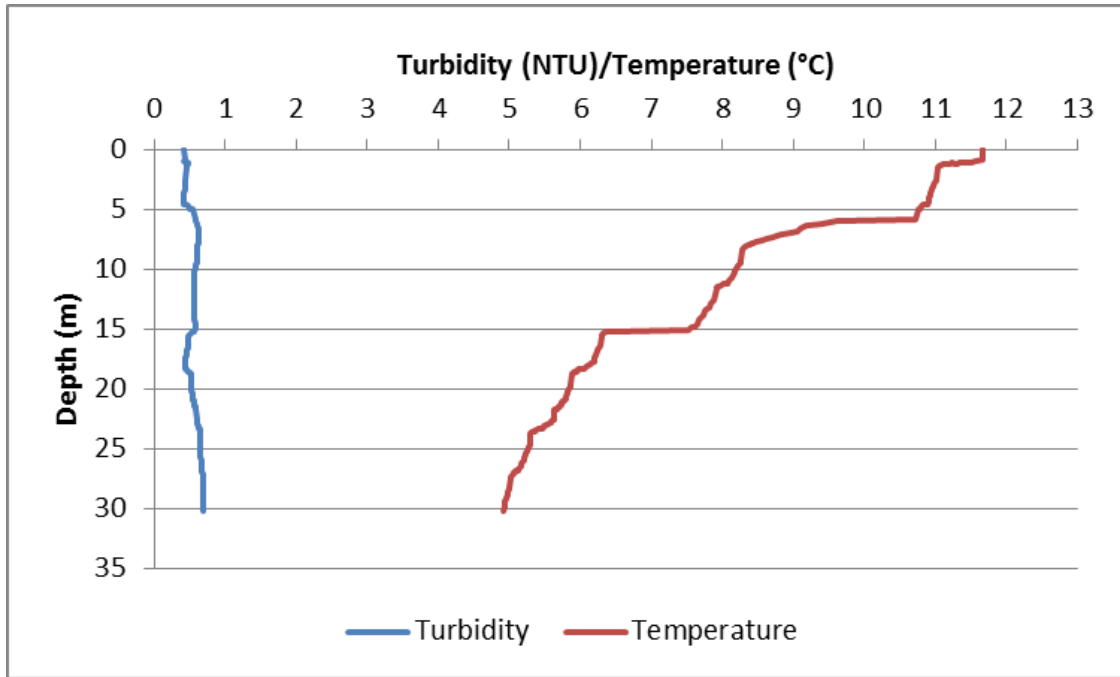


Figure 3. Turbidity and temperature profiles at station QUL-55 from May 19th

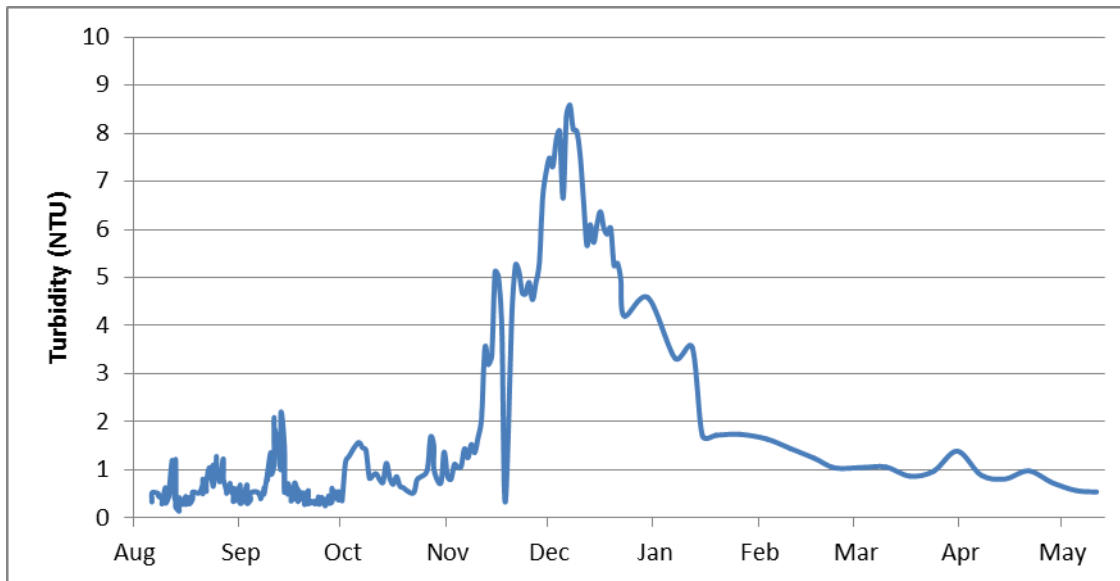


Figure 4. Turbidity time series at station QUR-1 (August 6th, 2014 – May 11th, 2015)