



Mount Polley Mining Corporation

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Ministry of Environment
 Mining Operations Environmental Protection
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WEEKLY POST-TSF BREACH REPORT – JUNE 10 - 16, 2015

Water Management

Polley Lake Dewatering	Polley Lake water elevation = 922.53 m (June 16 th) The Polley Lake weir valve remained open this week to allow ~0.005 m ³ /s of outflow from Polley Lake into Hazeltine Creek. The valve was temporarily closed one day to accommodate installation of new fish fences.
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 the May 28 th , 2015 weekly report for an overview map of the TSF water management system.

Government, First Nations and Stakeholder Engagement

Publications and Website Updates	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). New photos were added to the Photo Gallery on June 15 th .
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"> • The weekly MoE update call on June 10th. • A tour of the TSF and Hazeltine Creek rehabilitation work for Likely Community members was held on June 12th. • An Environmental Working Group meeting was held on June 12th. • The final Post-Event Environmental Impact Assessment Report was sent to the Environmental Working Group on June 12th.

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 Mount Polley Mining Corporation (MPMC) staff.
Hazeltine Creek Rehabilitation	<p>Re-contouring of areas on the west side of Hazeltine Creek and application of woody debris and organics for erosion control and reclamation purposes is ongoing between the 4,000m and 5,200m marks of the channel (Polley Lake = 0m).</p> <p>Pooling water in Reach 3 (near access ramp 4) was dewatered and a drainage swale constructed.</p> <p>Ongoing work associated with the creek rehabilitation project carried out this week included:</p> <ul style="list-style-type: none"> • Regular cleaning of the fish fences. • Installation of new fish fences downstream of the Polley Lake weir, and in the overflow spillway of the Hazeltine Creek lower sedimentation pond. • Further development of a fish restriction and salvage plan for small fish that have entered the Hazeltine Creek sedimentation ponds by MPMC. • Installation of signage, road grading, removal of merchantable timber, and general cleanup of work areas in preparation for opening of the Ditch Road to the public. • The Gavin Lake and Ditch Road bridges were surveyed, and test holes were dug in anticipation of bridge replacement. • Re-opening of public access to the Ditch Road on June 12th.

TSF Construction

Construction Update	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 17 th , 2014. Buttress placement for the Perimeter Embankment is ongoing; all other work associated with the 2015 Freshet Management Embankment construction is complete.
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Water Quality Monitoring Program

Water Quality Monitoring Program	The current water quality monitoring program is outlined in the table below. No changes to the monitoring program occurred this week and all monitoring was completed as scheduled.			
	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 in Edney Creek upstream and downstream of the confluence with Hazeltine Creek (stations EDC-01 and EDC-02, respectively). Figure 2 shows turbidity levels at these 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 June 16th at site QUL-55, a near field site in Quesnel Lake at the mouth of Hazeltine Creek. Results were not consistent between the down and up casts in this sampling event, so both are presented.</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. This chart will be updated on a bi-monthly basis, as per the monitoring frequency of this site in the sampling program.</p>			

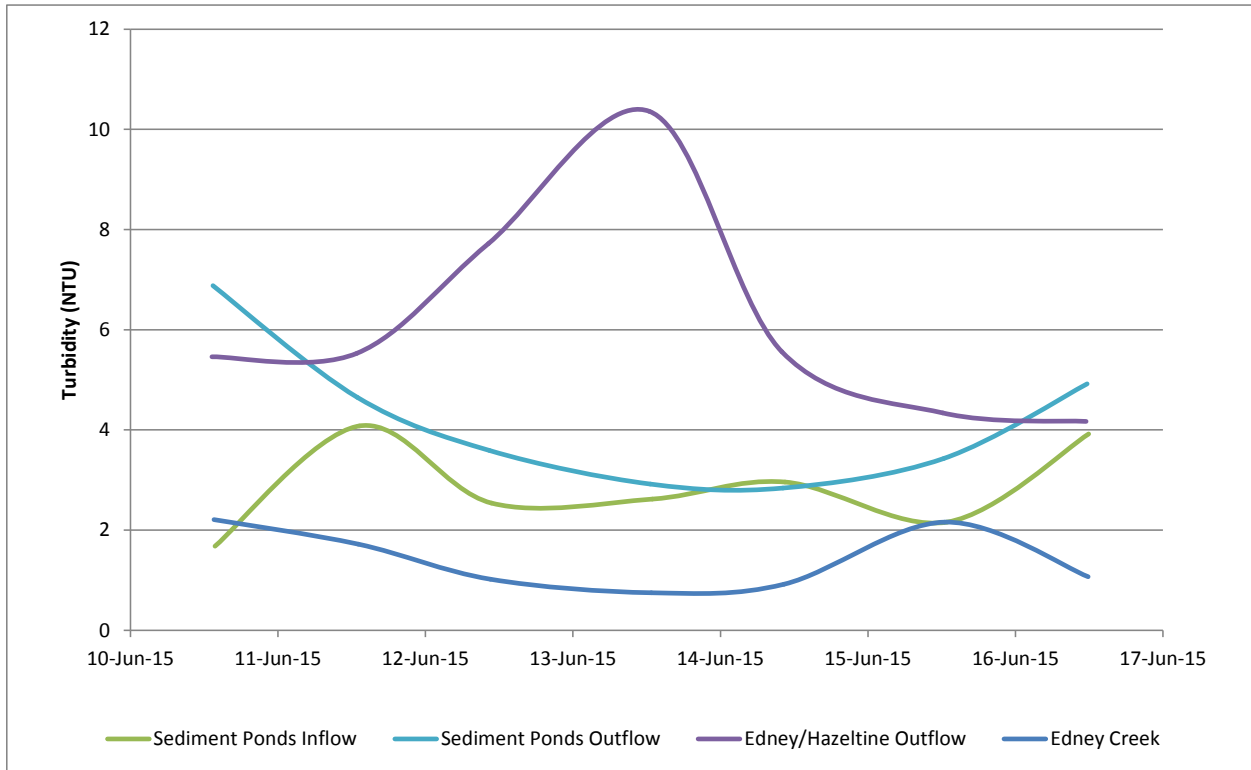


Figure 1. Time series graph for June 10th – June 16th showing turbidity levels at monitoring locations in Hazeltine and Edney Creeks

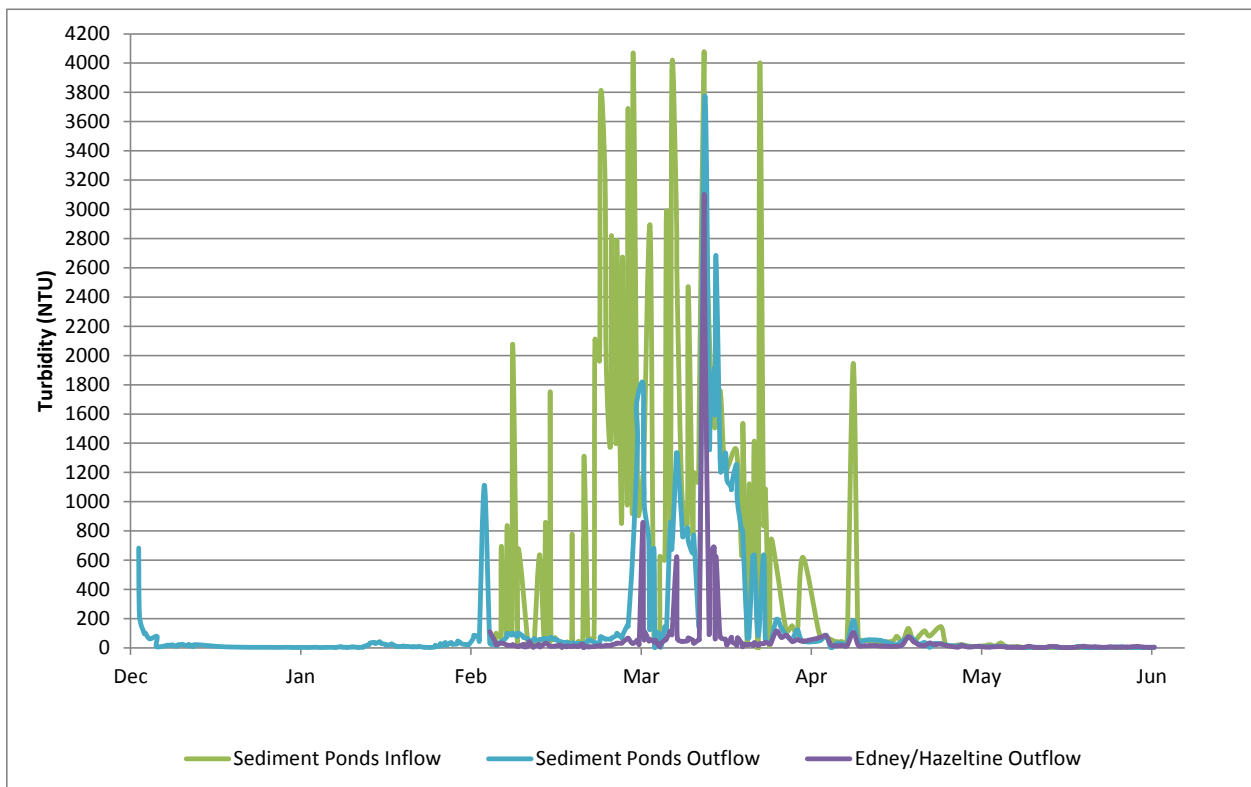


Figure 2. Time series graph for December 12th, 2014 – June 16th, 2015 showing turbidity levels at monitoring locations in Hazeltine Creek

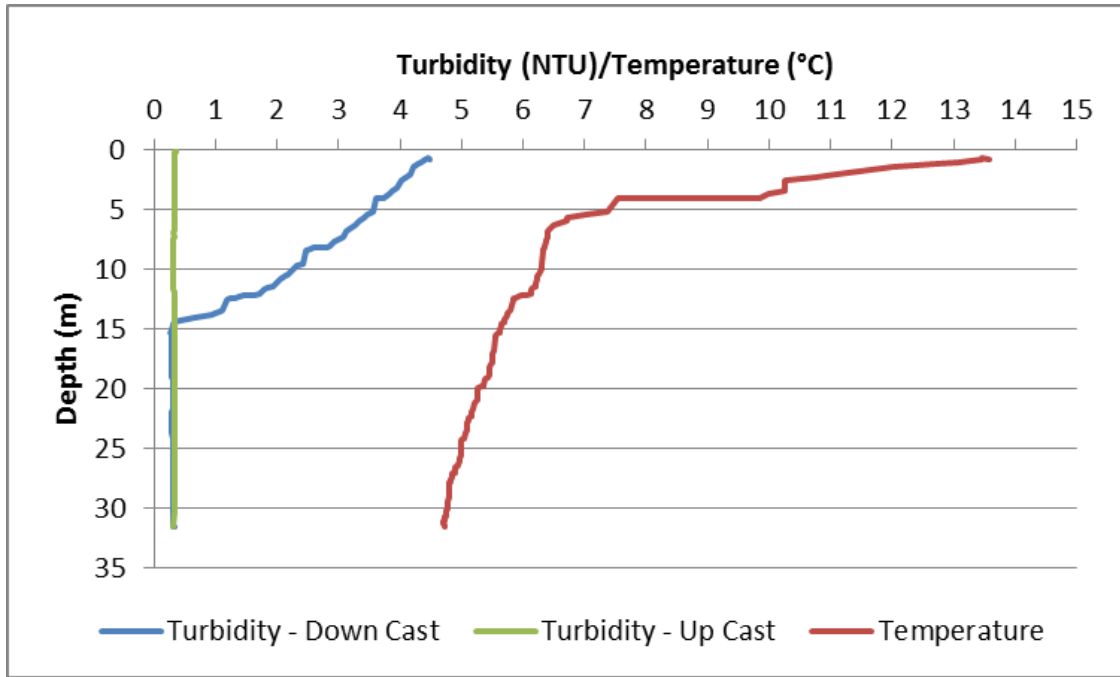


Figure 3. Turbidity and temperature profiles at station QUL-55 from June 16th (results from the up and down casts are presented because they were not consistent in this sampling event)

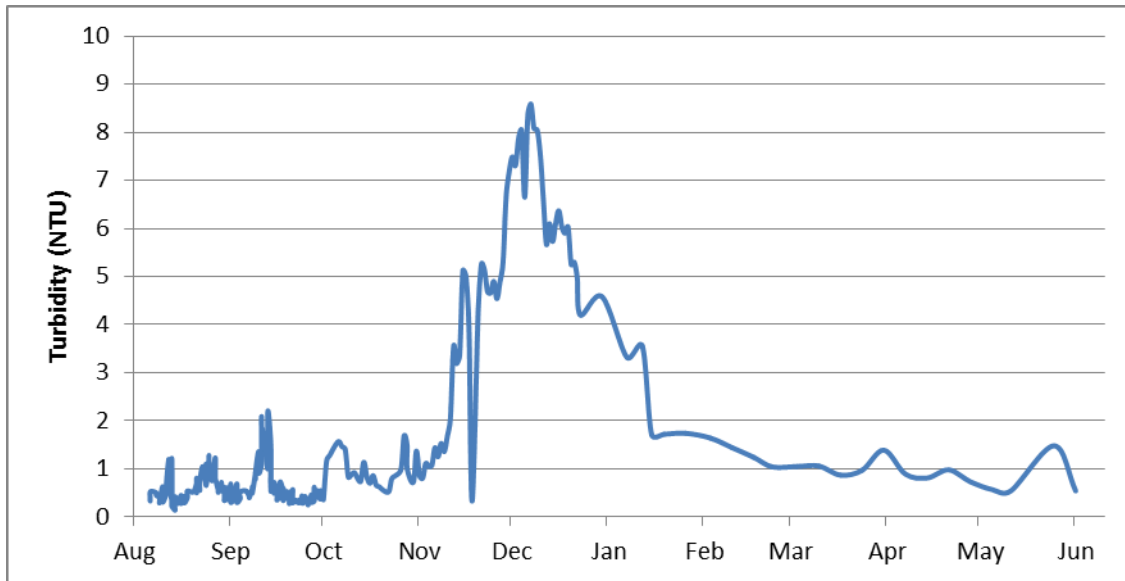


Figure 4. Turbidity time series at station QUR-1 (August 6th, 2014 – June 1st, 2015)