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Ministry of Environment
Mining Operations Environmental Protection
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WEEKLY UPDATE REPORT – SEPTEMBER 2ND – 8TH, 2015

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). Last week's update report to the Ministry of Environment (MoE) was posted this week.
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">• A Habitat Objectives meeting for Hazeltine Creek rehabilitation with representatives from First Nations, the MoE, the Department of Fisheries and Oceans, and the Ministry of Forests, Lands and Natural Resource Operations on September 2nd.• The weekly MoE update call on September 3rd.• Participation in the MoE Environmental Working Group meeting on September 4th.• Side-by-side audit sampling with MoE in Hazeltine Creek on September 8th.

Water Management

<p>Polley Lake</p>	<p>Polley Lake water elevation = 920.20m (September 8th) The Polley Lake weir valve remained open this week to allow approximately 0.1 m³/s of outflow from Polley Lake into Hazeltine Creek.</p>
<p>Water Management</p>	<p>All water from the Tailings Storage Facility (TSF) water collection system continues to be transferred to the Springer Pit via the Central Collection Sump (CCS). No releases of water to the environment occurred this week. Dewatering from the Springer Pit to the CCS via the West Ditch is ongoing to supply water for: the turbomisters at the Main Seepage Pond; dust suppression sprinklers on the TSF; and, process water to the Mill.</p> <p>Please refer to the May 28th, 2015 weekly report for an overview map of the TSF water management system.</p>
<p>Springer Pit</p>	<p>The total volume of tailings deposited in the Springer Pit as of September 8th is 418,992 tonnes (303,617 m³ including water retained in tailings)</p> <p>Water Elevations (September 8th):</p> <ul style="list-style-type: none"> • Springer Pit = 1019.33m (+0.58m from last week) • Groundwater well GW12-2a = 1013.32m (+0.01m from last week) • Groundwater well GW12-2b = 1013.35m (-0.05m from last week) • Groundwater well GW15-1a = 1019.75m (+0.36m from last week) • Groundwater well GW15-1b = 1019.68m (+0.38m from last week) • Groundwater well GW15-2a = 1021.78m (-0.03m from last week) • Groundwater well GW15-2b = 1022.10m (-0.01m from last week) <p>A map of the groundwater well locations is included as Figure 1 of the July 23rd weekly report. Note that the suffix “a” indicates the deep well in the pair, and the suffix “b” indicates the shallow well in the pair.</p> <p>Monthly water quality results for parameters of interest from the Springer Pit supernatant and adjacent groundwater wells will be included in this report as they become available. The Springer Pit groundwater wells were not monitored as scheduled in August due to equipment issues; a new pump system was ordered and arrived on site September 1st. with purging and sampling of wells commencing on September 2nd. The wells will be sampled again in late September.</p>
<p>Discharge System</p>	<p>Work related to installation of infrastructure for the proposed short-term water discharge plan was carried out this week including:</p> <ul style="list-style-type: none"> • Hauling of crush to the water treatment plant (WTP) pad. • Packing and grading of the water treatment plant pad and ditching around the area for drainage purposes. • Installation of the WTP feed pumps and placement of a rock berm around the pump culverts. • Felling of dead trees along the Quesnel Lake discharge pipe grade. • A contract for fusing of the discharge pipelines was awarded. • Bids have been received for the contract to install the discharge pipelines in Quesnel Lake.

Rehabilitation Work

Silt Curtain	The turbidity barrier (silt curtain) installed in Quesnel Lake near the outlet of the constructed Edney Creek channel is in good condition.
Monitoring	MPMC staff members conduct environmental monitoring when work in the Hazeltine Creek riparian zone is occurring.
Hazeltine Creek Rehabilitation	<p>Work carried out this week included:</p> <ul style="list-style-type: none"> • Gravel was hauled from a borrow pit for future use in creating fish habitat features. • Wood waste cleanup and stabilization of loose substrates with screened gravels continued in lower Hazeltine Creek. • Improvements to the Horsefly-Likely Forest Service Road (the “Ditch Road”) running surface in the areas adjacent to Hazeltine Creek. • Final bolting of woody debris in Edney Creek (extra materials had to be ordered to site). • A tour of all completed projects with the design engineer from Golder Associates Ltd. <p>Planning carried out this week included:</p> <ul style="list-style-type: none"> • A tour of re-contoured areas in Reach 3 (downstream of the Gavin Lake Forest Service Road bridge) with a reclamation consultant to discuss microsite creation and final placement of organic materials, which is anticipated to occur in the upcoming weeks (weather dependent). • Preparations for the fall revegetation program in Hazeltine Creek reclamation areas. • A contract for the first phase of tailings removal adjacent to upper Hazeltine Creek in Reach 2 (upstream of the Gavin Lake Forest Service Road bridge) was awarded. • Bids on a contract for the first phase of dead tree removal in areas adjacent to Hazeltine Creek are currently being accepted. <p>Hazeltine Creek continues to flow out of the new outlet from the lower sedimentation pond, separate from the outlet of Edney Creek, which has been rehabilitated for fish use.</p>

Environmental Monitoring Program

Water Quality Monitoring Program	The current water quality monitoring program is outlined in the table below. All sampling was completed as scheduled this this week.			
	Area	Monitoring Type	Frequency	Stations
	Polley Lake	Samples	Monthly	P1, P2
		Profiles	Bi-monthly	P1, P2
	Hazeltine Creek	Samples	Weekly	HAC-01c
			Monthly	HAC-05, HAC-08, HAC-10
	Edney Creek	Samples	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
Field Parameters		Continuous	QUR-1	
Please refer to previous weekly reports, such as the May 7th, 2015 report, for a map of these sampling locations.				
Water Quality Monitoring Results	Figure 1 is a time series graph of field turbidity readings in lower Hazeltine Creek upstream of the sedimentation ponds and downstream of the ponds, at the outflow into Quesnel Lake. The graph shows data since construction and armouring of the new Hazeltine Creek channel was completed in mid-May.			
	Figure 2 shows a turbidity and temperature profile from this week at site QUL-55a, a shallow site near the mouth of the new outflow channel from the lower Hazeltine Creek sedimentation pond to Quesnel Lake.			
	Figure 3 shows a time series graph of turbidity readings at site QUR-1 in the upper Quesnel River. Turbidity data are from laboratory analysis completed by ALS Environmental. This chart will be updated every second week, as per the monitoring frequency of this station in the sampling program.			

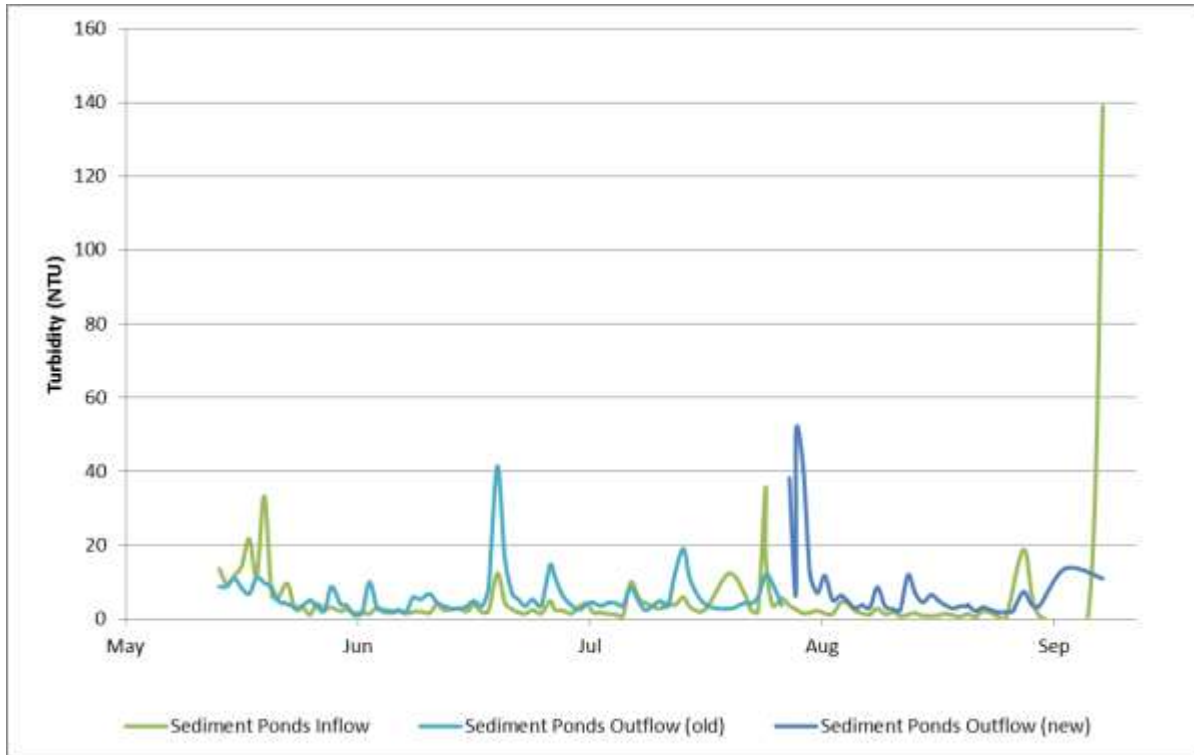


Figure 1. Time series graph for May 13th – September 8th showing turbidity levels at monitoring locations in lower Hazeltine Creek

Note: Rainfall on September 6th - 8th resulted in elevated turbidity readings. In particular, runoff from the Likely-Horsefly Forest Service Road was observed to be contributing to increased turbidity levels in lower Hazeltine Creek; steps, such as ditching, are been taken to divert this water and reduce sedimentation.

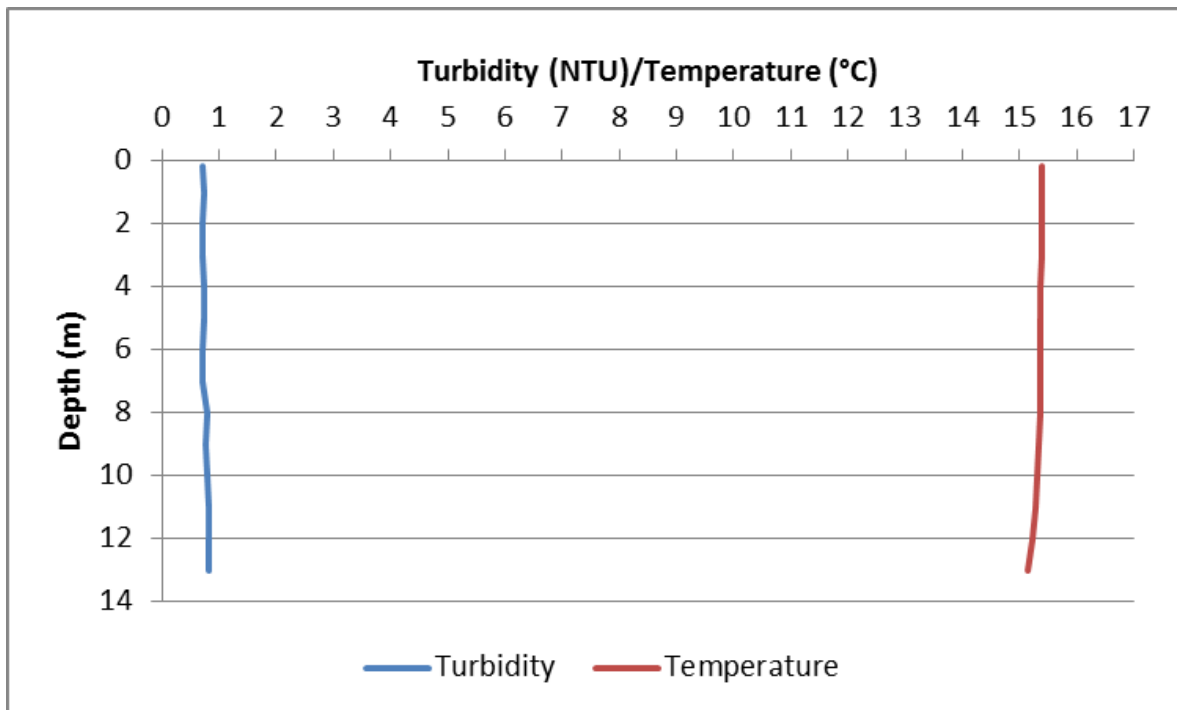


Figure 2. Turbidity and temperature profiles at station QUL-55a (shallow site at the mouth of the new outflow channel from the Hazeltine Creek lower sedimentation pond) on September 8th



Figure 3. Turbidity time series at station QUR-1 (August 6th, 2014 – August 24th, 2015)