



Mount Polley Mining Corporation

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December 3, 2015

Ministry of Environment
 Mining Operations Environmental Protection
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WEEKLY UPDATE REPORT – NOVEMBER 25 TO DECEMBER 1, 2015

Government, First Nations and Stakeholder Engagement

<p>Publications and Website Updates</p>	<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).</p> <ul style="list-style-type: none"> • Last week's update report to the BC Ministry of Environment (MoE) was posted this week. • MPMC's Rehabilitation Strategy Summary Table for the tailings dam failure response (updated as of November 5th) was published.
<p>Engagement Activities and Communications with Regulators</p>	<p>Activities relating to government, First Nations, and stakeholder communication and engagement this week included:</p> <ul style="list-style-type: none"> • The MoE weekly update call on November 25th. • Mount Polley Mining Corporation (MPMC) representatives met with representatives from the MoE, the MEM, the Williams Lake Indian Band (WLIB) and the Soda Creek First Nation (SCFN) on November 26th to present plans for returning of full operation of the mine. • An update presentation on MPMC's activities and the response to the tailings dam failure was given at the Mine Environment Neutral Drainage course in Vancouver on December 2nd. <p>Community meetings are scheduled for next week, as follows, to provide updates on MPMC's response to the tailings dam failure, MPMC's proposal to return to full operations, and plans for short- and long-term water management at the site.</p> <ul style="list-style-type: none"> • Likely: Monday December 7th, 7:00pm – 9:00pm, Likely Hall. • WLIB and SCFN: Tuesday December 8th, Sugar Cane. • Williams Lake: Wednesday December 9th, 7:00pm – 9:00pm, Gibraltar Room.

Rehabilitation Work

Hazeltine Creek Rehabilitation	<p>Hazeltine Creek rehabilitation work carried out this week included:</p> <ul style="list-style-type: none"> • Trucking out of logs removed from the creek area continued. • Work to replace the Gavin Lake Forest Service Road bridge continued.
Monitoring	<p>MPMC staff members conduct environmental monitoring when work in the Hazeltine Creek riparian zone is occurring.</p>

Water Management

Polley Lake	<p>Polley Lake water elevation = 919.91 m (December 1st). The Polley Lake weir valve continued to remain open, with water flowing at approximately 0.1 m³/s.</p>
Water Discharge	<p>MPMC received an amendment to Permit 11678 allowing short-term discharge of treated water to Quesnel Lake via Hazeltine Creek on November 30th. The MoE approved MPMC's discharge monitoring plan on November 30th following review by and input from the MoE-First Nations Government to Government Technical Working Group. MPMC commenced discharging on December 1st. An overview map of the discharge system is provided as Figure 1.</p>
Springer Pit	<p>The total volume of tailings deposited in the Springer Pit as of December 1st is 1,237,194 tonnes (896,517 m³ including water retained in tailings).</p> <p>Water Elevations (December 1st):</p> <ul style="list-style-type: none"> • Springer Pit = 1024.57m (+0.58m from last week) • Groundwater well GW12-2a = 1014.80m (+0.14m from last week) • Groundwater well GW12-2b = 1015.10m (+0.19m from last week) • Groundwater well GW15-1a = 1024.77m (+0.39m from last week) • Groundwater well GW15-1b = 1024.72m (+0.39m from last week) • Groundwater well GW15-2a = 1024.67m (+0.22m from last week) • Groundwater well GW15-2b = 1025.33m (+0.26m 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 continue to be presented, as available. The Springer Pit supernatant was sampled this week.</p> <p>MPMC has requested a third party Qualified Professional review of the water elevations and chemistry of the Springer Pit wells based on Section 2.6 Permit 11678.</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 week. This schedule has been updated to reflect changes in monitoring associated with commencing discharge.			
	Area	Monitoring Type	Frequency	Stations
	Discharge	Samples	Weekly	HAD-3
		Field Parameters	Continuous	HAD-3
	Hazeltine Creek	Samples	Weekly	HAC-12, HAC-13
			Monthly	HAC-05a, HAC-08, HAC-10
		Field Parameters	Continuous	HAC-12
	Edney Creek	Samples	Monthly	EDC-01
	Quesnel Lake	Profiles + Samples	Weekly	QUL-57 ¹ , QUL-58 ¹ , QUL-59 ¹
		Profiles	Bi-monthly	QUL-2a ² , QUL-18 ²
		Profiles	Monthly	QUL-40a ³ , QUL-120a ³
		Samples	Bi-monthly	QUL-18 ²
		Samples	Monthly	QUL-2a ² , QUL-40a ³ , QUL-120a ³
Quesnel River	Samples	Bi-monthly	QUR-1	
	Field Parameters	Continuous	QUR-1	
Notes:				
(1) Monthly between spring and fall overturn; initially following start-up of the water discharge MPMC will work to monitor weekly, if conditions allow.				
(2) Twice between spring and fall overturn, if conditions allow.				
(3) No safe winter access; no sampling between spring and fall overturn.				
An updated map of monitoring stations is provided in Figure 1.				
Water Quality Monitoring Results	Figure 2 shows field turbidity readings for upper Hazeltine Creek (HAC-10, at the outlet of Polley Lake), middle Hazeltine Creek (HAC-05a, at the Gavin Lake Forest Service Road crossing, downstream of the discharge), and in lower Hazeltine Creek at the intake of the Quesnel Lake outfall pipelines' (HAC-12).			
	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 4 shows field parameter profile results for turbidity and temperature at station QUL-58 in Quesnel Lake (station 100m from the Hazeltine Creek outflow diffusers, as the edge of the initial dilution zone). Note that this sample was taken prior to discharge commencing.			
Other Monitoring	MPMC collected supplemental samples at station QUL-42 located in Mitchell Bay, Quesnel Lake, as well as at the outlet of the water treatment plant when it was on recirculate mode prior to commencing discharge.			

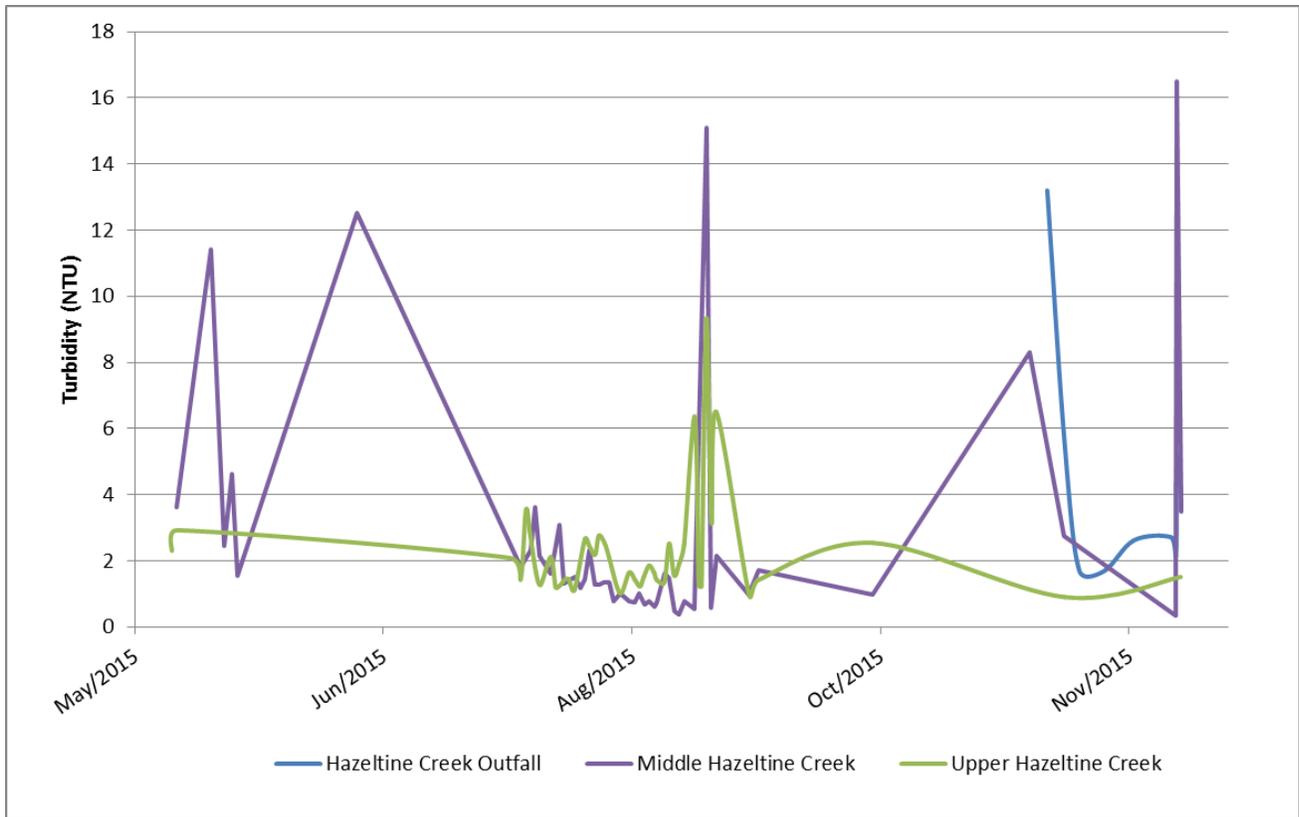


Figure 2. Time series graph for May 15th – December 2nd showing turbidity levels at monitoring locations in upper and lower Hazelatine Creek (note: discharge commenced on December 1st causing a short-lived increase in turbidity in the middle reaches of Hazelatine Creek)

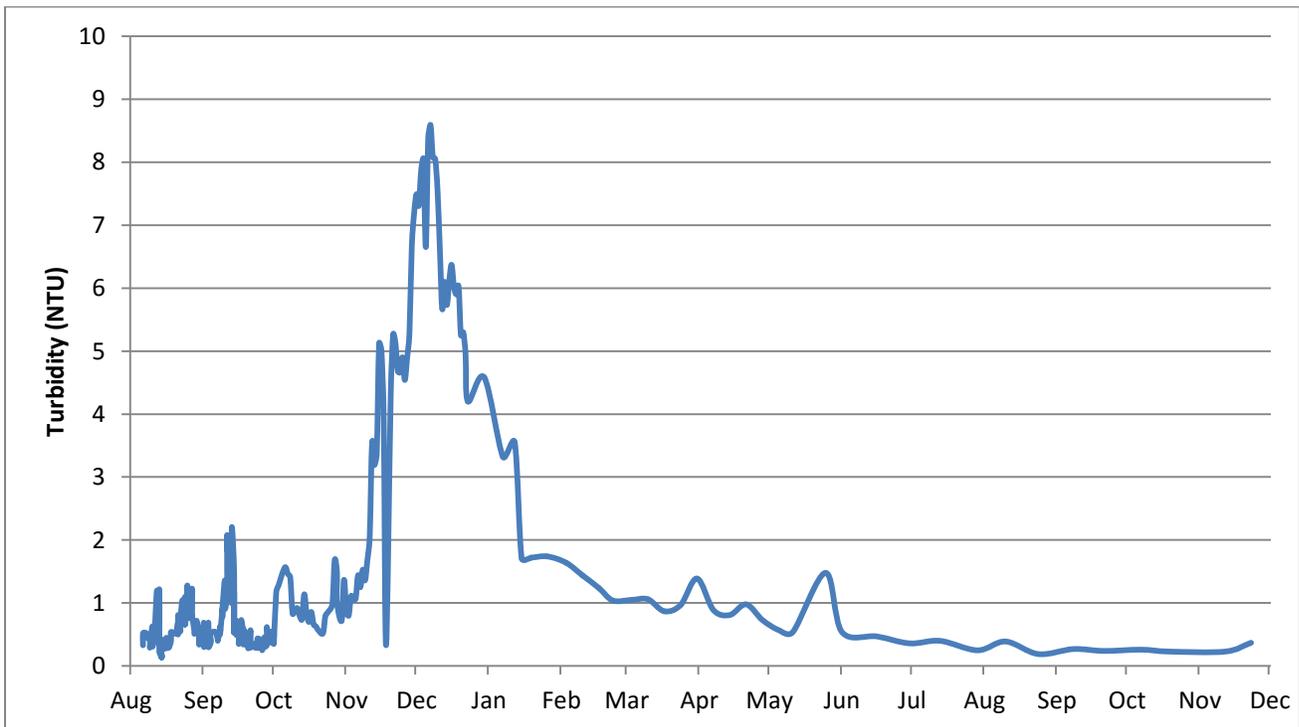


Figure 3. Turbidity time series at station QUR-1 (August 6th, 2014 – November 20th, 2015)

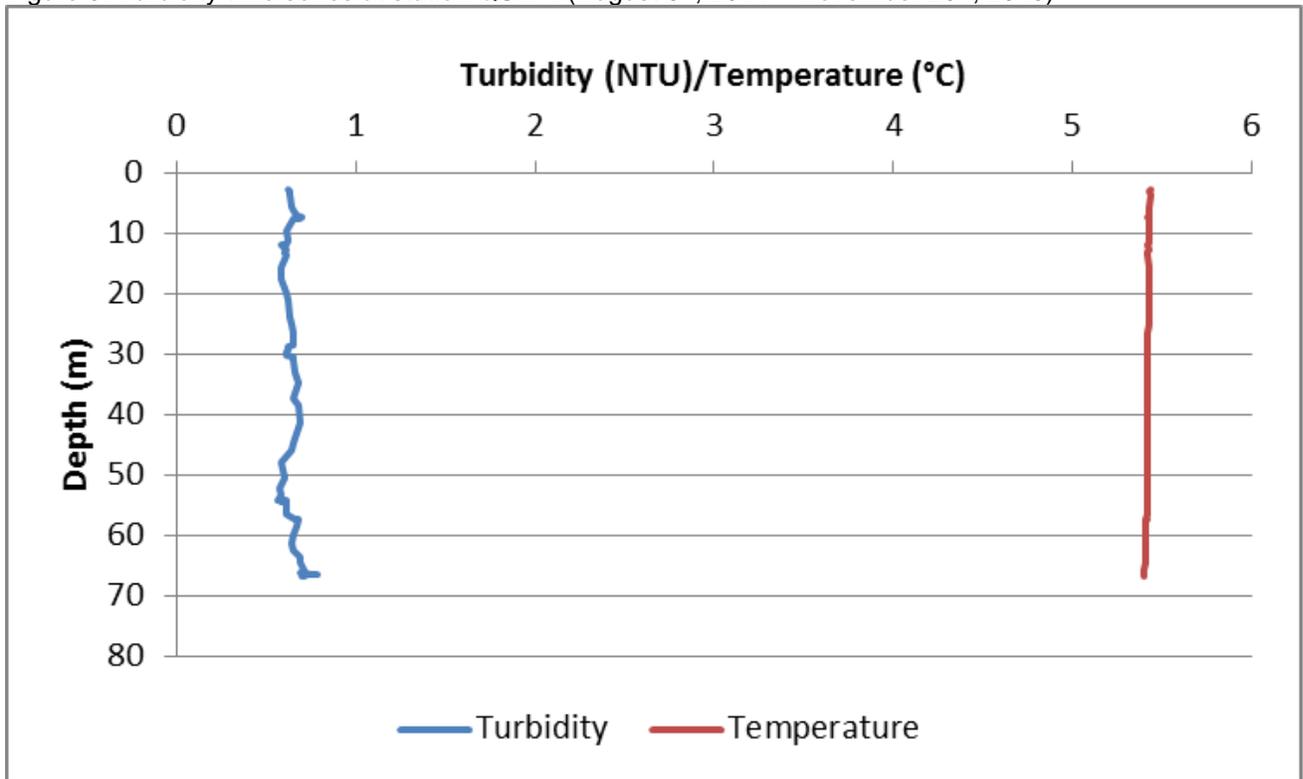
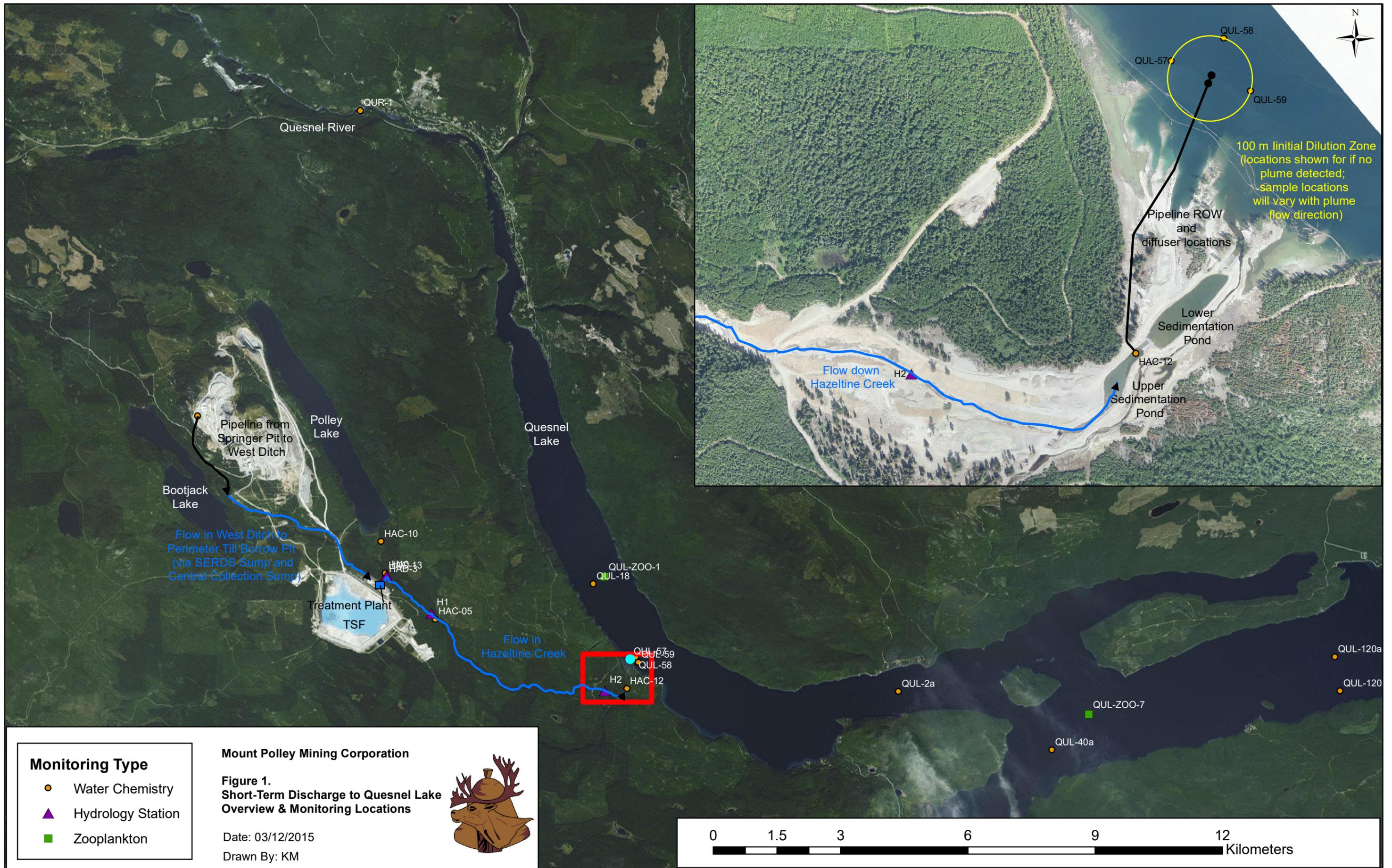


Figure 4. Turbidity and temperature profile at QUL-58 on November 30th



Monitoring Type

- Water Chemistry
- ▲ Hydrology Station
- Zooplankton

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Figure 1.
Short-Term Discharge to Quesnel Lake
Overview & Monitoring Locations

Date: 03/12/2015
 Drawn By: KM

