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Ministry of Environment
Mining Operations Environmental Protection
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WEEKLY UPDATE REPORT – NOVEMBER 11 TO 17, 2015

Government, First Nations and Stakeholder Engagement

Publications and Website 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).</p> <ul style="list-style-type: none">• Last week's update report to the BC Ministry of Environment (MoE) was posted this week.• Quarterly Post TSF-Breach Monitoring Results were posted this week. <p>The closure of the Likely-Horsefly Forest Service Road (Ditch Road) has been extended to November 20th. This update was sent out to Mount Polley's email list of community contacts and to the MoE Environmental Working Group.</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">• The MoE weekly update call on November 12th.

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. • Hazeltine Creek continues to flow through outfall pipes into Quesnel Lake (see below for monitoring information). • Snow has ended the willow planting and grass seeding program for the year.
Polley Lake	<p>Polley Lake water elevation = 919.94 m (November 16th) The Polley Lake weir valve remains open 17 turns.</p>
Water Management	<p>No releases of water to the environment occurred this week. Please refer to the May 28th, 2015 weekly report for an overview map of the TSF water management system.</p>
Springer Pit	<p>The total volume of tailings deposited in the Springer Pit as of November 16th is 1,103,281 tonnes (799,479 m³ including water retained in tailings). Water Elevations (November 15th):</p> <ul style="list-style-type: none"> • Springer Pit = 1023.66m (+0.14m from last week) • Groundwater well GW12-2a = 1014.52m (+0.21m from last week) • Groundwater well GW12-2b = 1014.77m (+0.25m from last week) • Groundwater well GW15-1a = 1024.16m (+0.37m from last week) • Groundwater well GW15-1b = 1024.11m (+0.36m from last week) • Groundwater well GW15-2a = 1024.16m (+0.48m from last week) • Groundwater well GW15-2b = 1024.77m (+0.50m 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 purged and sampled this week.</p>
Discharge System	<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"> • The commissioning of the WTP is complete. • Installation of the WTP supporting structures and equipment is complete.
Silt Curtain	<p>The turbidity barrier (silt curtain) installed in Quesnel Lake near the outlet of the constructed Edney Creek channel was removed.</p>
Monitoring	<p>MPMC staff members conduct environmental monitoring when work in the Hazeltine Creek riparian zone is occurring.</p>

Environmental Monitoring Program

<p>Water Quality Monitoring Program</p>	<p>The current water quality monitoring program is outlined in the table below. All sampling was completed as scheduled this week. Changes made to the monitoring program last week include:</p> <ul style="list-style-type: none"> • The addition of sampling station HAC-12 at the intake of the outfall pipeline and the removal of HAC-01c as Hazeltine Creek is no longer flowing in the channel. • Weekly sampling at stations QUL-57, 58 and 59 in the Initial Dilution Zone (IDZ) above the diffusers was completed in early November however the results indicate that Hazeltine Creek water does not change the water quality in Quesnel Lake. MPMC will commence weekly sampling at these sites when the discharge of effluent commences. Until that time, weekly profiles will be completed below the diffuser outlet. • Sampling of Polley Lake will be discontinued now that fall overturn has occurred. Under ice sampling is planned for the winter, if/when conditions allow. <table border="1" data-bbox="386 737 1425 1146"> <thead> <tr> <th>Area</th> <th>Monitoring Type</th> <th>Frequency</th> <th>Stations</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Hazeltine Creek</td> <td rowspan="2">Samples</td> <td>Weekly</td> <td>HAC-12</td> </tr> <tr> <td>Monthly</td> <td>HAC-05, HAC-08, HAC-10</td> </tr> <tr> <td>Edney Creek</td> <td>Samples</td> <td>Monthly</td> <td>EDC-01</td> </tr> <tr> <td rowspan="5">Quesnel Lake</td> <td>Profiles</td> <td>Weekly</td> <td>QUL-58</td> </tr> <tr> <td>Profiles</td> <td>Bi-monthly</td> <td>QUL-21a, QUL-18, QUL-66a, QUL-2a, QUL-79</td> </tr> <tr> <td>Profiles</td> <td>Monthly</td> <td>QUL-40a, QUL-120a</td> </tr> <tr> <td>Samples</td> <td>Weekly</td> <td>QUL-58 – when discharging</td> </tr> <tr> <td>Samples</td> <td>Monthly</td> <td>QUL-2a, QUL-18, QUL-40a, QUL-120a</td> </tr> <tr> <td rowspan="2">Quesnel River</td> <td>Samples</td> <td>Bi-monthly</td> <td>QUR-1</td> </tr> <tr> <td>Field Parameters</td> <td>Continuous</td> <td>QUR-1</td> </tr> </tbody> </table> <p>Please refer to previous weekly reports, such as the May 7th, 2015 report, for a map of these sampling locations.</p>	Area	Monitoring Type	Frequency	Stations	Hazeltine Creek	Samples	Weekly	HAC-12	Monthly	HAC-05, HAC-08, HAC-10	Edney Creek	Samples	Monthly	EDC-01	Quesnel Lake	Profiles	Weekly	QUL-58	Profiles	Bi-monthly	QUL-21a, QUL-18, QUL-66a, QUL-2a, QUL-79	Profiles	Monthly	QUL-40a, QUL-120a	Samples	Weekly	QUL-58 – when discharging	Samples	Monthly	QUL-2a, QUL-18, QUL-40a, QUL-120a	Quesnel River	Samples	Bi-monthly	QUR-1	Field Parameters	Continuous	QUR-1
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<p>Water Quality Monitoring Results</p>	<p>Figure 1 has been updated from previous reports to display current turbidity readings from upper Hazeltine at the outlet of Polley Lake and at lower Hazeltine at the top of the outfall pipeline (HAC-12).</p> <p>Figure 2 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.</p>																																					
<p>Other Monitoring</p>	<p>MPMC Collected supplemental samples at the outlet of the Water Treatment Plant (HAD-3) and HAC-12 to provide baseline for Hazeltine Creek and the WTP prior to discharging.</p>																																					

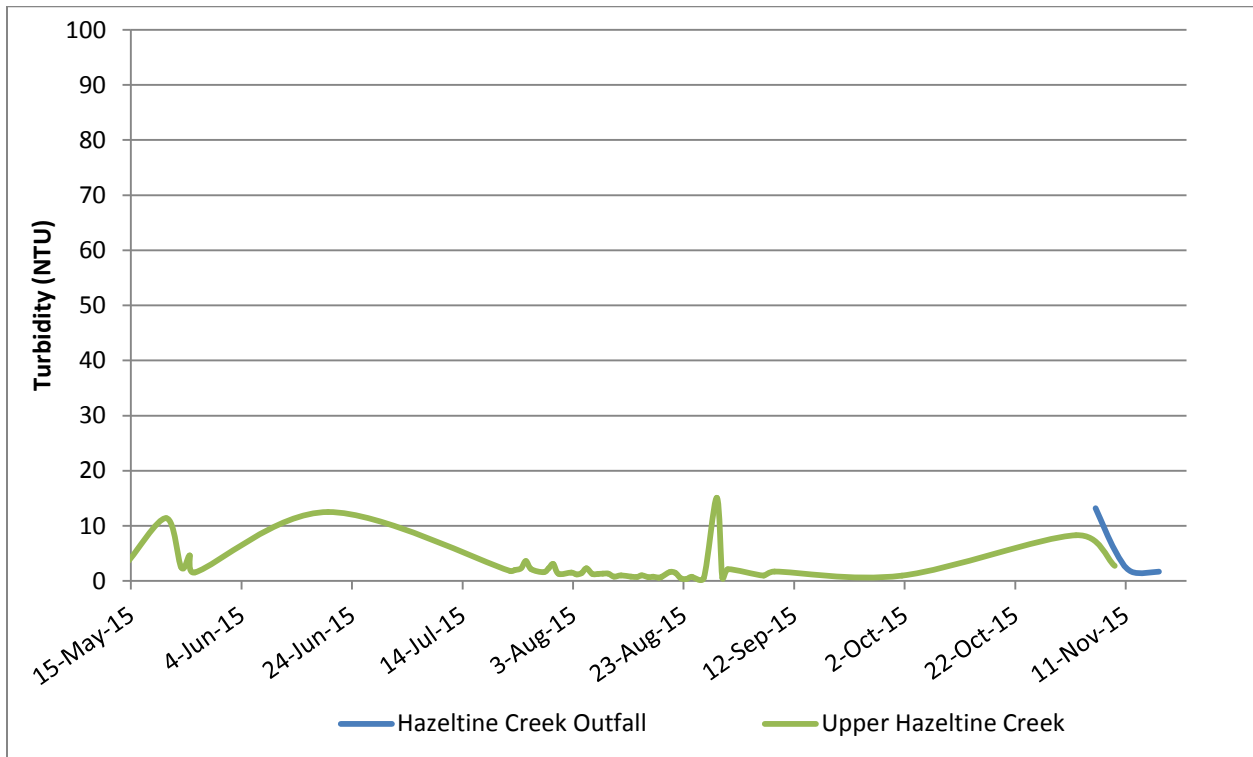


Figure 1. Time series graph for May 15th – November 12th showing turbidity levels at monitoring locations in upper and lower Hazeltine Creek.

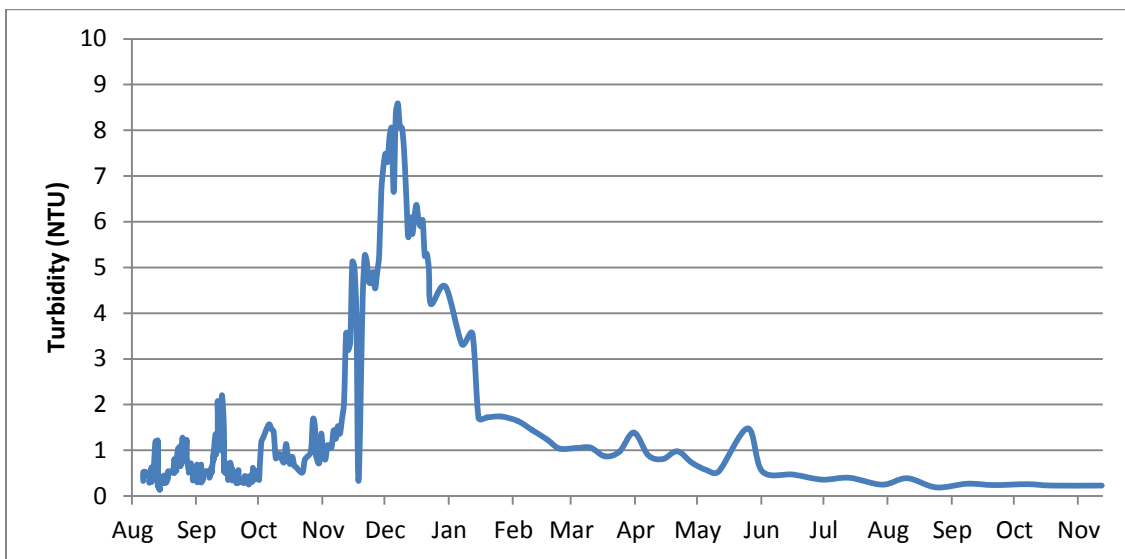


Figure 2. Turbidity time series at station QUR-1 (August 6th, 2014 – November 12th, 2015).