



Ministry of Environment
Inspection Record

Environmental
 Protection
 Division

Inspection Number: 28467		Inspection Status: FINAL	
EP System: <u>AMS</u>		Inspection Date: 2016-06-14	
EP System Number: 11678		EP System Status: <u>Active</u>	
Region: <u>Cariboo</u>		Office: <u>Williams Lake</u>	
Trigger: <u>Planned</u>		Incidents of Non-Compliance Observed: <u>No</u>	
Non-Compliance Decision Matrix Level: <u>Level 0</u>		Non-Compliance Decision Matrix Category: <u>Category 0</u>	
Inspector Name(s): Jack Green		CPIX: <u>Over 2 = High</u>	
Audit:		Total Non-Compliance(s): 0	
Regulated Party: Mount Polley Mining Corporation			
Regulated Party Contact(s): Colleen Hughes			
Legal Address: P.O. BOX 12 LIKELY, BC V0L 1N0			
Phone No: (250)790-2617		Fax No:	
Contact Email: chughes@mountpolley.com			
Location Description or Site Address: Mount Polley is an open pit copper/gold mine located near Likely, BC.			
Latitude: 52.54547 N		Longitude: 121.63433 W	
Receiving Environment(s): <u>Surfacewater</u>			

Summary

MONITORING AND REPORTING REQUIREMENTS				
Inspection Period: From: 2016-06-14 To: 2016-06-14				
Requirement Source: Permit				
Activity: <u>On Site</u>			Waste Type: <u>Effluent</u>	
Inspection Summary: On 14 June 2016, Environmental Protection Officer Jack Green conducted an on site inspection of Mount Polley Mine, authorized under Environmental Management Act effluent discharge permit PE11678 (Permit), issued to Mount Polley Mining Corporation (MPMC). The Permit authorizes the discharge of effluent to the land and surface water from a copper-gold mine and mill complex. I was accompanied on site by Colleen Hughes (Environmental Coordinator). The weather during the inspection was overcast with some rain. The scope of the inspection was to assess compliance with the requirements of the Permit specified below. A split sample audit was conducted at the Water Treatment Plant (WTP) outfall (E304230 - HAD03). MPMC passed the audit and all sample results collected as part of the audit were within permit limits. On site observations: - Restoration work at mouth of Hazeltine Creek - gravel deposited into water to create spawning habitat for fish. Further habitat development on shore. - Pumps in Springer Pit have been relocated further from the access road to prevent sediment mobilised by surface run-off on the access road from getting pumped to the WTP. - Golder have been on site looking to address the issue of bubble in the WTP affecting operating efficiency of the system. Fish barrier at head of Hazeltine Creek is checked twice daily, cleaned as needed and a net is installed upstream to intercept vegetation. MPMC were found to be in compliance with the requirements of the Permit.			Response: <u>Notice</u>	
ACTIONS REQUIRED BY REGULATED PARTY: None.				
ADDITIONAL COMMENTS:				

Compliance Summary	In	Out	N/A	N/D
Discharge	2	0	0	0
Operations	5	0	0	0

Inspection Details

Requirement Type: Operations
Requirement Description: 1.2 This section applies to the discharge of effluent from a Copper-Gold Mine and Ore Concentrator to the Springer Pit. The site reference number for this discharge is E302090. 1.2.3 The authorized maximum elevation of the supernatant within the pit is 1030 meters above sea level.
Details/Findings: Elevation of water level in Springer Pit at time of inspection was 1038.36 metres above sea level (masl). MPMC have approval to bypass the permit limit of 1030 masl until 31 August 2016, as stated in the Authorization to Bypass Works dated 11 March 2016.
Compliance: <u>In</u>

Requirement Type: Discharge
Requirement Description: 1.3 This section applies to the discharge of treated effluent from the Springer Pit and Site Runoff and Seepage Collection Water Management Systems to Hazeltine Creek (HAD-03). The site reference for this discharge is E304230. 1.3.1 The authorized maximum discharge rate is 0.3 cubic meters per second.
Details/Findings: At the time of the inspection, the discharge rate was 0.23 cubic meters per second.
Compliance: <u>In</u>

Requirement Type: Discharge
Requirement Description: 1.3 This section applies to the discharge of treated effluent from the Springer Pit and Site Runoff and Seepage Collection Water Management Systems to Hazeltine Creek (HAD-03). The site reference for this discharge is E304230. 1.3.3 The characteristics of the discharge must be equivalent to or better than: -pH Minimum: 6.0 pH Units Maximum: 9.5 pH Units -Total Suspended Solids Maximum: 15 mg/L -Total Sulphate Maximum: 720 mg/L

- Total Ammonia (as N)
Maximum: 0.41 mg/L
- Total Nitrate (as N)
Maximum: 9.7 mg/L
- Total Phosphorous
Maximum: 0.090 mg/L
- Total Arsenic
Maximum: 0.0034 mg/L
- Total Chromium
Maximum: 0.0011 mg/L
- Total Copper
Maximum: 0.012 mg/L
- Total Iron
Maximum: 0.11 mg/L
- Total Molybdenum
Maximum: 0.20 mg/L
- Total Selenium
Maximum: 0.060 mg/L
- Total Vanadium
Maximum: 0.0081 mg/L
- Total Zinc
Maximum: 0.0083 mg/L

Details/Findings:

All sampling results from the audit sample were within permitted limits.

Compliance: In

Requirement Type: Operations

Requirement Description:

1.3.5 The Permittee must maintain a diversion and two settling ponds in lower Hazeltine Creek and an associated submerged discharge/diffuser into Quesnel Lake. The Permittee must cease discharging to Hazeltine Creek immediately if the upper settling pond is overflowing.

Details/Findings:

Settling ponds were well maintained. Settling Pond 1 had in excess of 0.5 metres of freeboard, Settling Pond 2 was empty.

Compliance: In

Requirement Type: Operations

Requirement Description:

2.4.4 The tailings impoundment must provide 1.0 meter of freeboard plus storage for the Probable Maximum Precipitation (PMP), and all other effluent storage ponds, seepage ponds, and surface runoff ponds must provide at least 0.5 meter of freeboard, up to a 1 in 200 year 24-hour storm event. If at any time the freeboard in the tailings impoundment is reduced to less than 1.0 meters plus the PMP, or

less than 0.5 meters in any other pond, the Permittee must notify Environmental Protection following procedures in Section 2.1 of this permit.

Details/Findings:

The site ponds inspected included the Central Collection Sump, the Till Borrow Pit and the Settling Ponds at the mouth of Hazeltine Creek all had in excess of 0.5 metres of freeboard.

Compliance: In

Requirement Type: Operations

Requirement Description:

2.4.6 All ponds, ditching, and other runoff or seepage collection and diversion works must be inspected at least twice per year, once in the spring after freshet and once in the fall before freeze-up.

Details/Findings:

All ponds and ditches were inspected between 20 April 2016 and 30 May 2016. Records of inspections for Fall 2015 and Spring 2016 were provided upon request, including a record of works completed as a follow up to the inspections carried out in Fall 2015.

Compliance: In

Requirement Type: Operations

Requirement Description:

2.4.7 A sign must be erected along the alignment of the outfall above the high water mark. The sign must identify the nature of works. The wording and size of the sign must be acceptable to the Director. Signs must be posted along the effluent pipeline right-of-way at points of public access and facing Quesnel Lake to identify the right-of-way and provides emergency contact information.

Details/Findings:

Observed the sign erected along the alignment of the outfall above the high water mark.

Compliance: In

Were the following collected during inspection:

Samples? Photos? EMS Number

Other (please specify)

Is the Inspection related to an EA Project? EA Project Certificate Number:

INSPECTION CONDUCTED BY:

Signature	Date Signed
Jack Green	2016-08-02

ENCLOSURE(S) TO REGULATED PARTY & DESCRIPTION:

CVIS Archives

REGULATORY CONSIDERATIONS:

DISCLAIMER:

Please note that sections of the permit, regulation or code of practice referenced in this inspection record are for guidance and are not the official version. Please refer to the original permit, regulation or code of practice.

To see the most up to date version of regulations and codes of practices please visit:

<http://www.bclaws.ca/>

If you require a copy of the original permit, please contact the inspector noted on this inspection record or visit: <http://www2.gov.bc.ca/gov/topic.page?id=DF89089126D042FD96DF5D8C1D8B1E41&title=Publicly%20Viewable%20Authorizations>

It is also important to note that this inspection record does not necessarily reflect each requirement or condition of the authorization therefore compliance is noted only for the requirements or conditions listed in the inspection record.

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