



Mount Polley Mining Corporation

IMPERIAL METALS CORPORATION

August 14, 2015

Via Email: Hubert Bunce
A/Director, Mount Polley
BC Ministry of Environment
Environmental Protection, Regional Operations

RE: Second Quarter 2015 Report for Post TSF-Breach Monitoring Plan

Mount Polley Mining Corporation (MPMC) is pleased to present this second quarter Post TSF-Breach Monitoring report for 2015 as required under Pollution Abatement Order 107461, May 27, 2015. Surface water monitoring was conducted throughout this time period as specified in the *2015 Post TSF- Breach Monitoring Plan*. Sampling events are outlined in Table 1.

With regard to the *2015 Post TSF- Breach Monitoring Plan* the following items should be noted:

- Hydrological monitoring was conducted at four stations (Polley Lake Weir, Upper Hazeltine, Lower Hazeltine, and Lower Edney)
- Climate data including temperature, wind direction, rainfall, wind speed, and snowpack were collected. Solar radiation and relative humidity data were also collected to allow for calculation of evaporation rates. These data will be reported in the 2015 Progress Report.
- There were 150 surface water quality sampling events.
- Quality assurance monitoring included nine duplicate samples, three field blanks, and two travel blanks. In May, quality assurance monitoring began incorporating all water quality samples taken, including Permit 11678 sites. These data will be reported in the 2015 Progress Report.
- Supplemental monitoring results will be presented in the December 31, 2015 Progress Report.

- For water balance information refer to the “Second Quarter 2015 Report for Permit 11678”.

This report includes the following sections for water quality:

- Appendix 1: Water quality analysis
- Appendix 2: In-situ data
- Appendix 3: Hydrology results

Table 1: Sampling events in the second quarter 2015

Site Name	BC EMS Code	Full Sample Suite Frequency	Required	Completed
HAC-10	E303010	Monthly	3	5
HAC-05	E303012	Monthly	3	5
HAC-08	E303013	Monthly	3	7
HAC-01b	E301410	Monthly	3	14
EDC-01	E303014	Monthly	3	7
EDC-02	E303015	Weekly	12	15
QUL-54	E303016	Profile Only *	12	14
QUL-55	E303017	Weekly	12	15
QUL-56	E303018	Profile Only *	12	14
QUL-18	E303019	Weekly/Monthly ^a	5	5
QUL-2a	E303020	Weekly/Monthly ^a	5	5
QUL-40a	E303021	Monthly	3	3
QUL-120a	E303022	Monthly	3	3
QUL-21a	E303023	Profile Only ⁱⁱ	8	5
QUL-66a	E303024	Profile Only ⁱⁱ	8	8
QUL-79	E303025	Profile Only ⁱⁱ	8	8
QUR-1	E303026	Weekly/bi-weekly [†]	10	11
P1		Monthly	3	3
P2		Monthly	3	3

* Only sample if in-situ parameters are different than QUL-55, profile weekly

^a Weekly during spring overturn, monthly after spring overturn

ⁱⁱ Weekly during spring overturn, bi-monthly after spring overturn

[†] Weekly during spring overturn, bi-weekly after spring overturn

Sincerely,



Colleen Hughes, EP
Environmental Coordinator
Mount Polley Mining Corporation
250-790-2617

Appendix 1

Appendix 1							
EDC-01 (Edney Creek Upstream of Confluence with Hazeltine)							
Date Sampled	1-Apr-15	7-Apr-15	14-Apr-15	21-Apr-15	28-Apr-15	4-May-15	2-Jun-15
Zinc (Zn)-Dissolved	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030

Appendix 1

EDC-02 (Edney Creek Below Confluence with Hazeltine)

Date Sampled	1-Apr-15	7-Apr-15	14-Apr-15	21-Apr-15	28-Apr-15	4-May-15	11-May-15	14-May-15	19-May-15
Strontium (Sr)-Dissolved	0.121	0.206	0.277	0.255	0.164	0.337	0.260	0.300	0.360
Thallium (Tl)-Dissolved	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Tin (Sn)-Dissolved	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Dissolved	0.051	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Dissolved	0.000252	0.000417	0.000490	0.000452	0.000373	0.000652	0.000521	0.000671	0.000590
Vanadium (V)-Dissolved	0.00211	0.00090	0.00104	0.00094	0.00073	0.00093	0.00080	0.00099	0.00119
Zinc (Zn)-Dissolved	<0.0030	<0.0030	<0.0030	<0.0030	0.0039	<0.0030	0.0058	0.0051	<0.0030

Appendix 1
EDC-02 (Edney Creek Below Confluence with Hazeltine)

Date Sampled	26-May-15	2-Jun-15	9-Jun-15	16-Jun-15	29-Jun-15	22-Jun-15
Strontium (Sr)-Dissolved	0.274	0.350	0.362	0.391	0.419	0.141
Thallium (Tl)-Dissolved	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Tin (Sn)-Dissolved	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Dissolved	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Dissolved	0.000475	0.000582	0.000616	0.000776	0.000943	0.000189
Vanadium (V)-Dissolved	0.00095	0.00112	0.00115	0.00120	0.00134	<0.00050
Zinc (Zn)-Dissolved	<0.0030	0.0036	0.0038	<0.0030	0.0044	<0.0030

Appendix 1

HAC-01b (Mouth of Hazeltine Creek at Quesnel Lake)

Date Sampled	1-Apr-15	7-Apr-15	14-Apr-15	21-Apr-15	28-Apr-15	4-May-15	11-May-15	19-May-15	26-May-15
Strontium (Sr)-Dissolved	0.263	0.364	0.422	0.383	0.409	0.387	0.372	0.371	0.384
Thallium (Tl)-Dissolved	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Tin (Sn)-Dissolved	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Dissolved	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Dissolved	0.000875	0.000884	0.000739	0.000750	0.00137	0.000750	0.000812	0.000583	0.000727
Vanadium (V)-Dissolved	0.00181	0.00119	0.00134	0.00107	0.00120	0.00096	0.00105	0.00121	0.00124
Zinc (Zn)-Dissolved	<0.0030	<0.0030	<0.0030	<0.0030	0.0038	<0.0030	0.0083	<0.0030	<0.0030

Appendix 1
HAC-01b (Mouth of Hazeltine Creek at Quesnel Lake)

Date Sampled	2-Jun-15	9-Jun-15	16-Jun-15	29-Jun-15	22-Jun-15
Strontium (Sr)-Dissolved	0.376	0.377	0.418	0.444	0.415
Thallium (Tl)-Dissolved	<0.000010	<0.000010	0.000012	<0.000010	<0.000010
Tin (Sn)-Dissolved	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Dissolved	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Dissolved	0.000620	0.000638	0.000826	0.000998	0.000777
Vanadium (V)-Dissolved	0.00115	0.00121	0.00126	0.00146	0.00123
Zinc (Zn)-Dissolved	0.0039	0.0042	<0.0030	0.0063	0.0080

Appendix 1
HAC-05 (Hazeltine Creek at Gavin Lake Bridge)

Date Sampled	14-Apr-15	21-Apr-15	28-Apr-15	4-May-15	2-Jun-15
Zinc (Zn)-Dissolved	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030

Appendix 1
HAC-08 (Hazeltine Creek upstream of Ditch Road Bridge)

Date Sampled	1-Apr-15	7-Apr-15	14-Apr-15	21-Apr-15	28-Apr-15	4-May-15	2-Jun-15
Strontium (Sr)-Dissolved	0.256	0.381	0.410	0.393	0.478	0.385	0.373
Thallium (Tl)-Dissolved	<0.000020	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010
Tin (Sn)-Dissolved	<0.00020	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Dissolved	0.014	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Dissolved	0.000815	0.000751	0.000657	0.000631	0.00137	0.000614	0.000518
Vanadium (V)-Dissolved	0.0023	0.00139	0.0019	0.00116	0.00129	0.00103	0.00113
Zinc (Zn)-Dissolved	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030

Note: Units are mg/L unless otherwise stated

Appendix 1					
HAC-10 (Outlet of Polley Lake at Weir)					
Date Sampled	14-Apr-15	21-Apr-15	28-Apr-15	4-May-15	2-Jun-15
Strontium (Sr)-Dissolved	0.335	0.337	0.311	0.309	0.310
Thallium (Tl)-Dissolved	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Tin (Sn)-Dissolved	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Titanium (Ti)-Dissolved	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Dissolved	0.000289	0.000279	0.000327	0.000298	0.000298
Vanadium (V)-Dissolved	0.00081	0.00092	0.00086	0.00087	0.00088
Zinc (Zn)-Dissolved	<0.0030	<0.0030	0.0099	<0.0030	<0.0030

