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Summary Review of Performance of Metal Mines

Subject to the *Metal Mining Effluent Regulations*
in 2013

1/MM/23 – April 2015
Mining Section
Mining and Processing Division
Industrial Sectors Directorate
Environmental Stewardship Branch
Environment Canada



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REVIEW NOTICE

This performance summary of metal mines subject to the *Metal Mining Effluent Regulations* has been reviewed by officials of the Mining Section, Environment Canada, and approved for public release. Approval does not necessarily signify that the contents reflect the views and policies of Environment Canada.

The data used in this summary review were provided to Environment Canada under section 22 of the Regulations, which requires mines to submit annual reports to Environment Canada. The data were compiled by staff of the Mining Section of Environment Canada and are presented as provided by the mines from their submitted annual reports. In some cases, quarterly reports were used by Environment Canada staff to complete missing information that was not properly reported by the owners or operators of some mines.

This summary has been compiled to inform the regulated community, other stakeholders and the interested public on the performance of mines subject to the Regulations in 2013. The material has been prepared for informational purposes only. For all purposes of interpreting and applying the law, users should consult the *Metal Mining Effluent Regulations*, as registered by the Clerk of the Privy Council and published in Part II of the *Canada Gazette*.

ABSTRACT

This review summarizes the performance of Canadian metal mines with respect to selected standards prescribed by the *Metal Mining Effluent Regulations*, which were registered on June 6, 2002, and came fully into force on December 6, 2002.

This is the eleventh annual summary of performance with respect to the Regulations. In addition to detailed mine effluent quality data, the report includes various tables and graphs synthesizing the compliance data based on exceedances, jurisdictions and mining subsectors. Summary tables are also provided on the same basis for both rainbow trout acute lethality and *Daphnia magna* monitoring tests. This performance review of mines is limited in that it does not include an overview of the main requirements of the Regulations. The electronic version of this summary review is available through Environment Canada's online publications catalogue at www.ec.gc.ca.

RÉSUMÉ

La présente évaluation sommaire porte sur la performance des mines de métaux canadiennes et repose sur certaines normes prescrites par le *Règlement sur les effluents des mines de métaux*, lequel a été enregistré le 6 juin 2002 et est entré en vigueur dans son ensemble le 6 décembre 2002.

Elle constitue la onzième évaluation sommaire annuelle de la performance relativement au *Règlement*. Outre des données détaillées sur la qualité des effluents, le rapport comprend divers tableaux et graphiques dans lesquels les données sur la conformité sont résumées, selon les dépassements, la province ou le territoire et le sous-secteur minier. Il comprend également des tableaux sommaires dans lesquels on présente de la même manière les résultats des essais de détermination de la létalité aiguë chez la truite arc-en-ciel et des essais de suivi avec bioessais sur la *Daphnia magna*. La portée de la présente évaluation sommaire est limitée, c'est-à-dire qu'elle ne renferme aucun aperçu des principales exigences figurant dans le *Règlement*. La version électronique de cette évaluation sommaire est disponible à partir du répertoire des publications en ligne d'Environnement Canada à l'adresse : www.ec.gc.ca.

TABLE OF CONTENTS

Abstract	iii
Summary	1
Overall Compliance Assessment for Prescribed Deleterious Substances and pH in 2013.....	2
Overall Assessment of Results of Rainbow Trout Acute Lethality and <i>Daphnia magna</i> Monitoring Tests in 2013.....	2
Comparison of Performance of Metal Mines in 2012 and 2013	3
Performance Data and Compliance Summary for 2013.....	3
References	11
List of Acronyms and Abbreviations.....	12

LIST OF APPENDICES

Appendix A: Mining Facilities with New Regulatory Status in 2013.....	13
Appendix B: Mining Facilities Subject to the <i>Metal Mining Effluent Regulations</i> in 2013	14
Appendix C: Mining Companies Included in the Assessment in 2013	21
Appendix D: Performance Summary of Mine Effluents in 2013	22
Appendix E: Effluent Quality Data for Mines in 2013.....	37

LIST OF TABLES

Table 1: Distribution of Facilities and Final Discharge Points by Jurisdiction in 2013	6
Table 2: Distribution of Final Discharge Points per Facility in 2013.....	6
Table 3: Compliance Summary for Prescribed Deleterious Substances and pH in 2013	7
Table 4: Performance Summary in 2013	7
Table 5: Distribution of Exceedances by Jurisdiction in 2013.....	8
Table 6: Distribution of Exceedances by Mining Subsector in 2013.....	8
Table 7: Performance Summary: Rainbow Trout Acute Lethality and <i>Daphnia magna</i> Monitoring Tests, by Jurisdiction in 2013	8
Table 8: Performance Summary: Rainbow Trout Acute Lethality and <i>Daphnia magna</i> Monitoring Tests, by Mining Subsector in 2013	9
Table 9: Water Bodies Listed on Schedule 2 of the MMER (as of December 2013).....	10

LIST OF FIGURES

Figure 1: Location of Mining Facilities Subject to the <i>Metal Mining Effluent Regulations</i> in 2013	6
Figure 2: Distribution of Facilities by Jurisdiction for which Exceedances Were Reported in 2013.....	7
Figure 3: Distribution of Exceedances by Jurisdiction in 2013	7
Figure 4: Water Bodies Listed on Schedule 2 of the MMER (as of December 2013).....	9

SUMMARY

This review summarizes the performance of Canadian metal mines with respect to the selected standards prescribed by the *Metal Mining Effluent Regulations*, which came fully into force on December 6, 2002.

The Regulations require sampling of effluent and the submission of quarterly and annual reports of results within specified time limits. The data used in this review were provided to Environment Canada under section 22 of the Regulations, which requires mines to submit annual reports to Environment Canada. The format for these reports is specified in Schedule 6 of the Regulations. The reports include:

- monthly mean concentrations for metals and total suspended solids;
- monthly pH range; and
- summary results of rainbow trout acute lethality tests and *Daphnia magna* monitoring tests.

In 2013, 121 mining facilities operating in Canada were subject to the Regulations. No metal mines were subject to the Regulations in Alberta or Prince Edward Island. General information on those facilities subject to the Regulations is provided in Appendix B, and their locations are illustrated on the map in Figure 1.

OVERALL COMPLIANCE ASSESSMENT FOR PRESCRIBED DELETERIOUS SUBSTANCES AND PH IN 2013

- Overall, the metal mining sector is achieving over 99% compliance with the prescribed limits for arsenic, copper, cyanide, nickel, zinc, radium 226 and pH, and a 100% compliance rate for lead.
- Only a few sporadic exceedances were reported for arsenic, copper, cyanide, nickel, zinc, radium 226 and pH.
- The Eagle River Mill exceeded the limits for several parameters: copper, cyanide, zinc and total suspended solids.
- In 2013, the overall compliance rate achieved by the metal mining sector with respect to meeting the total suspended solids limits was 97.9%. The Elross Lake Area Iron Ore Mine, the Complexe métallurgique Sorel-Tracy, the Vezza Mine, the Wabush Mines Joint Venture – Scully Mine and the Williams Mine failed to consistently meet total suspended solids limits.

OVERALL ASSESSMENT OF RESULTS OF RAINBOW TROUT ACUTE LETHALITY AND *DAPHNIA MAGNA* MONITORING TESTS IN 2013

- Overall, the metal mining sector has achieved a compliance rate of 96.8% with respect to effluent that is non-acutely lethal to rainbow trout. A low compliance rate was achieved by the Vezza Mine facility in Quebec.
- In 93.6% of the *Daphnia magna* monitoring tests, the mortality rate was less than the targeted level of 50%.

COMPARISON OF PERFORMANCE OF METAL MINES IN 2012 AND 2013

- In 2013, 121 mines were subject to the Regulations compared to 117 in 2012. Four new mines became subject to the Regulations (see Appendix A for a list of mines with new regulatory status in 2013).
- In 2013, 216 final discharge points were subject to the Regulations, compared with 206 in 2012.
- The total number of exceedances for metals, pH and total suspended solids decreased from 74 in 2012 to 57 in 2013.
- In 2013 (as in 2012), metal mines achieved a 100% compliance rate for lead. The compliance rate for copper dropped slightly from 99.8% in 2012 to 99.7% in 2013. The compliance rate for cyanide increased from 98.6% in 2012 to 99.3% in 2013. The compliance rate for nickel and zinc both increased slightly to 99.8% from 99.6% and 99.7%, respectively. The compliance rate for arsenic remained unchanged at 99.8%.
- The compliance rate for total suspended solids (TSS) increased from 96.3% in 2012 to 97.9% in 2013. Although the majority of TSS exceedances reported were sporadic, five facilities seemed to have chronic TSS exceedances from at least one of their effluents in 2013; these facilities were the Williams Mine in Ontario, the Vezza Mine and the Complexe métallurgique Sorel-Tracy in Quebec, and the Elross Lake Area Iron Ore Mine and the Wabush Mines Joint Venture - Scully Mine in Newfoundland and Labrador.
- In 2013, the compliance rate for non-acutely lethal effluents to rainbow trout was 96.8%, compared with 98.8% in 2012. This drop in compliance rate was partly due to an increased number of tests with mortality greater than 50% that were reported by the Vezza Mine facility in Quebec (17 in 2013 compared to 6 in 2012).
- Between 2012 and 2013, a slight decrease in the percentage of tests with mortality $\leq 50\%$ was observed in *Daphnia magna* monitoring tests. More specifically, 93.6% of the tests showed the mortality rate was less than 50% in 2013 compared with 95.4% of the tests in 2012. In 2013, the numerous tests conducted by the Bucko Lake Mine, the Vezza Mine, the Éléonore Mine and the Ming Mine, for which the mortality rate was greater than 50%, contributed to decreasing the overall compliance rate of the sector.

PERFORMANCE DATA AND COMPLIANCE SUMMARY FOR 2013

The data were compiled by the Mining Section of Environment Canada. Except where noted, data are generally presented as provided by the owners or operators of the mines in their submitted annual reports. Occasionally, quarterly reports were used to correct or complete missing information that had not been properly reported by the owner or operator of a mine. For these facilities, a comment was added in the appropriate summary tables presented in Appendix E to identify which missing information had not been submitted as part of the annual report.

Pursuant to sections 9 and 10 of the Regulations, 216 final discharge points were identified as being subject to the Regulations. The distribution of facilities and final discharge points per jurisdiction is shown in Table 1. The number of final discharge points per facility ranged from 1 to 11, as illustrated in Table 2. Reported data indicate that 84 final discharge points had continuous discharge, 78 had intermittent discharge and 54 did not have any discharge in 2013.

The tables presented in Appendix D summarize the effluent quality data for mines subject to the Regulations in 2013. Table D1 summarizes the distribution of the non-compliant parameters for metals and pH, whereas Table D2 summarizes the results of rainbow trout acute lethality tests and *Daphnia magna* monitoring tests. Data for each individual final discharge point for mines subject to the Regulations in 2013 are listed in Appendix E.

Overall, the metal mining sector achieved over 99% compliance with the prescribed limits for metals, cyanide and pH. Only a few sporadic exceedances were reported for arsenic, copper, cyanide, nickel, zinc and radium 226. Metal mines achieved 100% compliance for prescribed limits for lead. Five mines were challenged to routinely meet total suspended solids limits, and the overall compliance rate was 97.9% (Table 3).

With respect to rainbow trout acute lethality tests, the metal mining sector has achieved a non-acutely lethal effluent compliance rate of 96.8%. In 93.6% of *Daphnia magna* monitoring tests, the mortality rate was less than 50%.

In 2013, 57 exceedances of the prescribed limits for metals, cyanide, pH and total suspended solids were reported (Table 4). Total suspended solids exceedances accounted for 53% of the total, metals for 23% of the total and pH for 7.0% of the total. Ninety seven facilities complied with the maximum authorized monthly mean concentrations for metals and total suspended solids, and pH limits at all times. Twenty four facilities reported at least one exceedance in 2013. Figure 2 shows the distribution, by jurisdiction, of all the facilities subject to the Regulations in 2013, as well as the number of facilities for which exceedances were reported. The distribution of exceedances by jurisdiction is shown in Figure 3.

The distribution of exceedances that were reported in 2013 per jurisdiction is as follows:

- 33.3% occurred from facilities located in Ontario;
- 33.3% occurred from facilities located in Quebec;
- 16.7% occurred from facilities located in Newfoundland and Labrador;
- 12.5% occurred from facilities located in British Columbia; and
- 4.2% occurred from facilities located in Manitoba.

No exceedances were reported from mines located in Northwest Territories, Nunavut, Yukon, Saskatchewan, Nova Scotia or New Brunswick (Table 5).

The distribution of exceedances by mining subsector is presented in Table 6. The precious metals subsector accounted for 38.6%, the base metals subsector for 35.1%, and the iron ore and titanium subsector for 26.4%. The uranium and other metals subsectors did not have any exceedances for 2013.

In 2013, 33 tests from 11 facilities were reported to be acutely lethal to rainbow trout (Table 7). Of those, 81.8% were from facilities located in Quebec, 6.1% in Ontario and New Brunswick and 3.0% in Newfoundland and Labrador and Manitoba. None of the effluent tested in the other jurisdictions (British Columbia, Yukon, Saskatchewan, Northwest Territories, Nunavut, or Nova Scotia) was acutely lethal to rainbow trout. On a sectoral basis, 87.9% of the reports of acute lethality test failures were from the precious metals subsector, 9.1% from the base metals subsector and 3.0% from the other metals subsector. The uranium and iron ore and titanium subsectors each had no rainbow trout acute lethality test failures (Table 8).

In 2013, 66 tests from 21 facilities had a *Daphnia magna* mortality rate greater than 50% (Table 7). Quebec had the highest percentage (36.4%) of the tests in which *Daphnia magna* mortality was greater than 50%, followed by Newfoundland and Labrador (24.2%), Manitoba (18.2%), Ontario (13.6%), and Saskatchewan (4.55%). Northwest Territories and New Brunswick accounted for 1.52% of the tests in which *Daphnia magna* mortality rate greater than 50%. British Columbia, Yukon, Nunavut and Nova Scotia had no *Daphnia magna* mortality rate greater than 50%. On a sectoral basis, 50% of the reports of *Daphnia magna* mortality greater than 50% were from the base metals subsector, 39.4% were from the precious metals subsector, 4.55% were from each of the iron ore and titanium and uranium subsectors, and 1.5% were from the other metals subsector (Table 8).

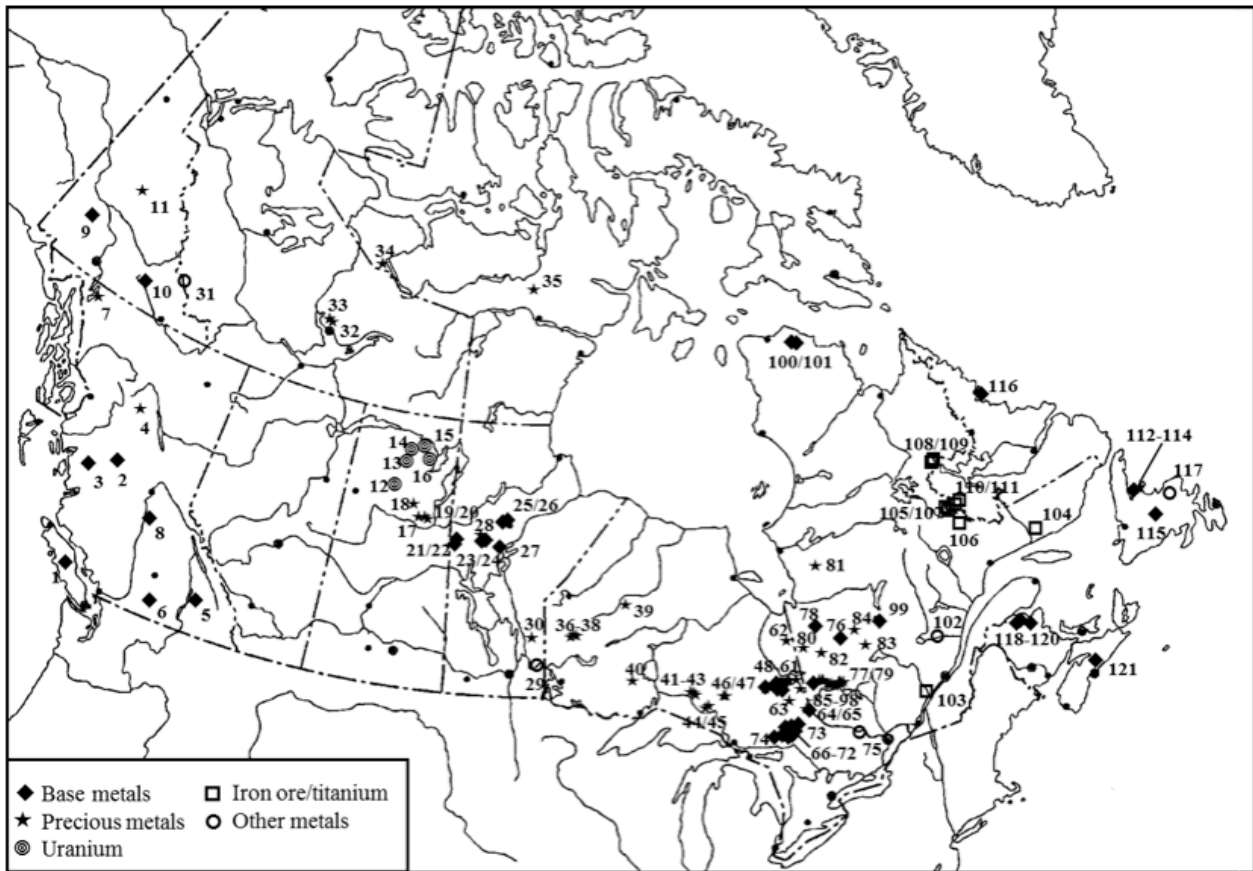
The MMER regulate the deposit of mine effluent, waste rock, tailings, low-grade ore and overburden into natural waters frequented by fish. Schedule 2 of the MMER lists water bodies designated as tailings impoundment areas (TIAs). These TIAs are water bodies into which any deleterious substance (such as tailings, waste rock etc.) may be disposed. Water bodies are added to Schedule 2 via regulatory amendment of the MMER. Information on the process for adding a water body to Schedule 2 via an amendment to the MMER is available online at: <http://ec.gc.ca/pollution/default.asp?lang=En&n=125349F7-1>.

As of December 2013, 19 water bodies were listed on Schedule 2 of the MMER. These water bodies are associated with the activities of 12 metal mines. Figure 4 illustrates the locations of metal mines where water bodies have been designated as Tailings Impoundment Areas and are listed as such on Schedule 2 of the Regulations as of December 2013. More information on the waters listed on Schedule 2 and the mines associated with them is shown in Table 9.

These Regulations are enforced by Environment Canada in accordance with the provisions of the Compliance and Enforcement Policy for the Habitat Protection and Pollution Prevention Provisions of the *Fisheries Act*. Enforcement personnel administer the provisions and accompanying regulations with an emphasis on preventing harm to fish, fish habitat or human use of fish caused by physical alteration or pollution of waters frequented by fish.

In verifying compliance with these Regulations, inspectors abide by the Enforcement and Compliance Policy, which sets out a range of possible responses to offenses, including warnings, inspector's directions, ticketing, ministerial orders, injunctions, prosecution and civil suits by the Crown for the recovery of costs. If an inspector confirms that an infraction has been committed, the inspector will select the appropriate response based on the following criteria: nature of the offense, effectiveness in achieving the desired result with the offender and consistency.

Figure 1: Location of Mining Facilities Subject to the *Metal Mining Effluent Regulations* in 2013



Note: The numbers used to identify the mines in Figure 1 correspond to column 1 of the table presented in Appendix B.

Table 1: Distribution of Facilities and Final Discharge Points by Jurisdiction in 2013

Jurisdiction	Number of Facilities	Number of Final Discharge Points
British Columbia	8	29
Yukon	3	3
Saskatchewan	9	18
Manitoba	10	11
Northwest Territories	3	5
Nunavut	2	4
Ontario	40	63
Quebec	32	51
New Brunswick	3	3
Newfoundland and Labrador	10	28
Nova Scotia	1	1
Total	121	216

Table 2: Distribution of Final Discharge Points per Facility in 2013

Number of Final Discharge Points	Number of Facilities
1	82
2	16
3	10
4	4
5	4
6	3
7	1
11	1

Table 3: Compliance Summary for Prescribed Deleterious Substances and pH in 2013

	As	Cu	CN	Pb	Ni	Zn	TSS	Ra-226	pH Low	pH High
Number of exceedances	3	4	3	0	3	3	30	7	3	1
Total number of months for which results were reported	1364	1377	425	1364	1365	1376	1456	837	1463	1463
Compliance rate (%)	99.8	99.7	99.3	100	99.8	99.8	97.9	99.2	99.8	99.9

Table 4: Performance Summary in 2013

Exceedances of Limits Prescribed in Schedule 4		
Substance/ Parameter	Number of Exceedances	Number of Facilities
Arsenic	3	1
Copper	4	3
Cyanide	3	3
Lead	—	—
Nickel	3	2
Zinc	3	3
TSS	30	12
Radium 226	7	2
pH	4	3
Total	57	29

Figure 2: Distribution of Facilities by Jurisdiction for which Exceedances Were Reported in 2013

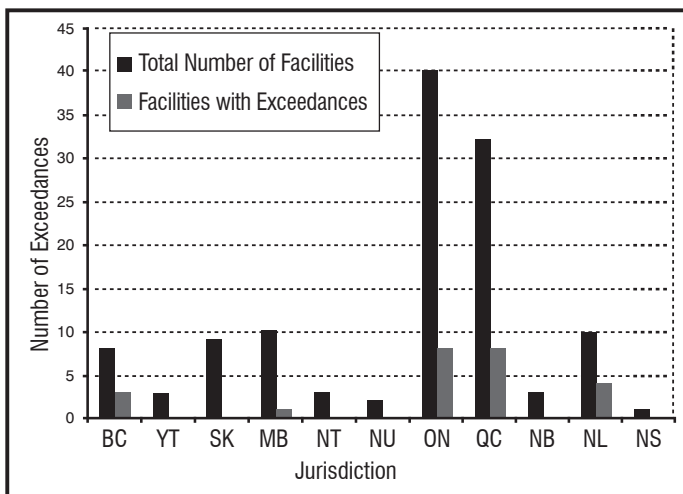


Figure 3: Distribution of Exceedances by Jurisdiction in 2013

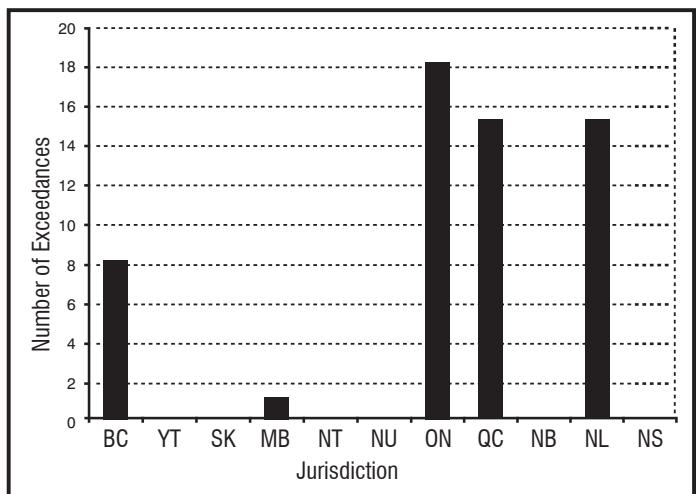


Table 5: Distribution of Exceedances by Jurisdiction in 2013

Jurisdiction	As	Cu	CN	Pb	Ni	Zn	TSS	Ra-226	pH	Total	Number of Facilities
British Columbia	–	–	–	–	–	–	1	6	1	8	3
Yukon	–	–	–	–	–	–	–	–	–	–	–
Saskatchewan	–	–	–	–	–	–	–	–	–	–	–
Manitoba	–	–	–	–	–	–	–	1	–	1	1
Northwest Territories	–	–	–	–	–	–	–	–	–	–	–
Nunavut	–	–	–	–	–	–	–	–	–	–	–
Ontario	3	3	1	–	1	1	6	–	3	18	8
Quebec	–	1	1	–	2	–	11	–	–	15	8
New Brunswick	–	–	–	–	–	–	–	–	–	–	–
Newfoundland and Labrador	–	–	1	–	–	2	12	–	–	15	4
Nova Scotia	–	–	–	–	–	–	–	–	–	–	–
Total	3	4	3	–	3	3	30	7	4	57	24

Table 6: Distribution of Exceedances by Mining Subsector in 2013

Subsector	As	Cu	CN	Pb	Ni	Zn	TSS	Ra-226	pH	Total	Number of Facilities
Base metals	–	1	–	–	3	1	1	7	3	16	9
Precious metals	3	3	3	–	–	1	11	–	1	22	10
Uranium	–	–	–	–	–	–	–	–	–	–	–
Iron/titanium	–	–	–	–	–	1	18	–	–	19	5
Other metals	–	–	–	–	–	–	–	–	–	–	–
Total	3	4	3	–	3	3	30	7	4	57	24

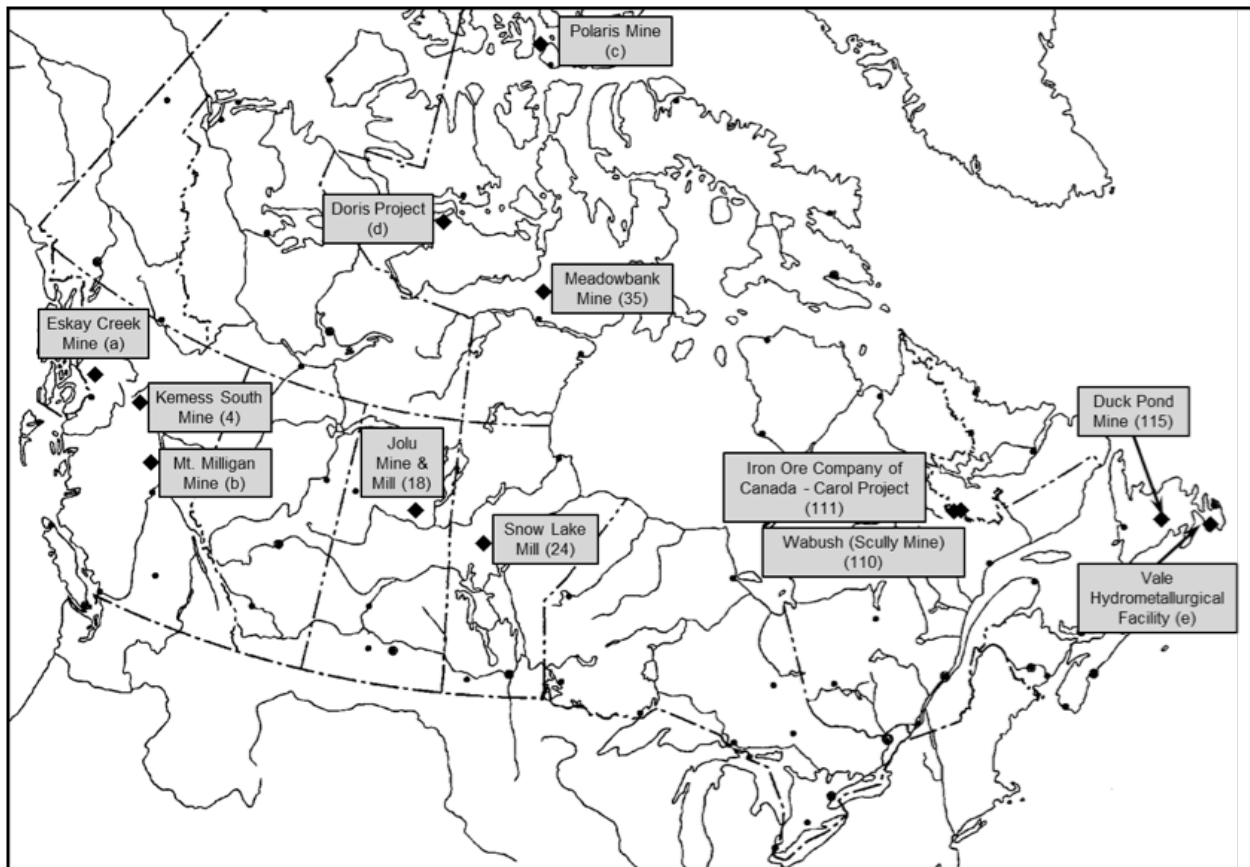
Table 7: Performance Summary: Rainbow Trout Acute Lethality and *Daphnia magna* Monitoring Tests, by Jurisdiction in 2013

Jurisdiction	Rainbow Trout Acute Lethality Tests			<i>Daphnia magna</i> Monitoring Tests		
	Total Number of Tests	>50% Mortality		Total Number of Tests	>50% Mortality	
		Number of Tests	Number of Facilities		Number of Tests	Number of Facilities
British Columbia	89	–	–	89	–	–
Yukon	15	–	–	15	–	–
Saskatchewan	53	–	–	54	3	2
Manitoba	51	1	1	51	12	3
Northwest Territories	12	–	–	13	1	1
Nunavut	6	–	–	6	–	–
Ontario	277	2	2	288	9	4
Quebec	346	27	6	341	24	6
New Brunswick	27	2	1	27	1	1
Newfoundland and Labrador	144	1	1	142	16	4
Nova Scotia	4	–	–	4	–	–
Total	1024	33	11	1030	66	21

Table 8: Performance Summary: Rainbow Trout Acute Lethality and *Daphnia magna* Monitoring Tests, by Mining Subsector in 2013

Subsector	Rainbow Trout Acute Lethality Tests			<i>Daphnia magna</i> Monitoring Tests		
	Total Number of Tests	>50% Mortality		Total Number of Tests	>50% Mortality	
		Number of Tests	Number of Facilities		Number of Tests	Number of Facilities
Base metals	311	3	2	309	33	9
Precious metals	475	29	8	479	26	7
Uranium	34	–	–	35	3	2
Iron/titanium	171	–	–	171	3	2
Other metals	33	1	1	36	1	1
Total	1024	33	11	1030	66	21

Figure 4: Water Bodies Listed on Schedule 2 of the MMER (as of December 2013)



Note: The numbers/letters shown on Figure 4 correspond to column 1 of Table 9.

Table 9: Water Bodies Listed on Schedule 2 of the MMER (as of December 2013)

Map #*	Mine Name	Prov. / Terr.	Item #**	Water Body Name**
4	Kemess South Mine	BC	3	South Kemess Creek
18	Jolu Mine and Mill	SK	19	Mallard Lake
24	Snow Lake Mill	MB	1	Anderson Lake
35	Meadowbank Mine	NU	8	The northwest arm of Second Portage Lake
110	Wabush (Scully Mine)	NL	11	Flora Lake
			12	A portion of an unnamed tributary stream to Flora Lake
			13	A portion of an unnamed tributary stream to Flora Lake
			14	A portion of an unnamed tributary stream to Flora Lake
111	Iron Ore Company of Canada – Carol Project	NL	10	A portion of Wabush Lake
115	Duck Pond Mine	NL	6	Trout Pond
			7	The headwater pond of a tributary to Gill's Pond Brook
a	Eskay Creek Mine	BC	4	Albino Lake
			5	Tom MacKay Lake
b	Mt. Milligan Mine	BC	16	A portion of King Richard Creek
			17	A portion of an unnamed tributary to Alpine Lake
			18	A portion of an unnamed tributary to Alpine Lake
c	Polaris Mine	NU	2	Garrow Lake
d	Doris Project	NU	9	Tail Lake
e	Vale Hydrometallurgical Facility	NL	15	Sandy Pond

*Note: The Map #s and mine names used in Table 9 may contain mines that are not on Figure 1 and in Appendix B because some mines listed in Table 9 are not currently subject to the MMER as they are either not yet in operation or are recognized closed mines. These mines are those that are identified with letters in the first column of Table 9.

**Note: The Item # in Table 9 identifies the item number as specified in Schedule 2 of the MMER. For the official names and complete description of the water body listings, please consult the full text of the MMER which is available at: <http://laws-lois.justice.gc.ca/eng/regulations/SOR-2002-222/index.html>

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LIST OF ACRONYMS AND ABBREVIATIONS

As	arsenic
BC	British Columbia
Bq/L	becquerel(s) per litre
CN	cyanide
Cu	copper
DM	<i>Daphnia magna</i>
FDP	final discharge point
m ³	cubic metre(s)
MB	Manitoba
mg/L	milligram(s) per litre
MMER	<i>Metal Mining Effluent Regulations</i>
NB	New Brunswick
ND	no deposit
Ni	nickel
NL	Newfoundland and Labrador
NMR	no measurement required
NS	Nova Scotia
NT	Northwest Territories
NU	Nunavut
ON	Ontario
Pb	lead
QC	Quebec
Ra-226	radium 226
RT	rainbow trout
SK	Saskatchewan
t/d	tonne(s) per day
t/y	tonne(s) per year
TSS	total suspended solids
U ₃ O ₈	uranium oxide
YT	Yukon
Zn	zinc

Appendix A: Mining Facilities with New Regulatory Status in 2013

New Mining Facilities Subject to the MMER in 2013		Mining Facilities that Ceased to Be Subject to the MMER in 2013	
Facility	Jurisdiction	Facility	Jurisdiction
Elross Lake Are Iron Ore Mine	Newfoundland and Labrador	—	—
Monique (project)	Quebec		
Phoenix Gold Project	Ontario		
Yukon Refinery	Ontario		

Appendix B: Mining Facilities Subject to the *Metal Mining Effluent Regulations* in 2013

Map #	Facility	Operator	Province/Territory (Location)	Products	Production Capacity	Process	Status	NPRI ID*
1	Myra Falls Operations	Nyrstar Myra Falls Ltd.	BC	Copper, zinc, lead, gold, silver	400 t/d	Flotation	Active	2372
2	Endako Mines	Thompson Creek Mining Ltd.	BC	Molybdenum	27 000 t/d	Flotation	Active	2794
3	Huckleberry Mine	Huckleberry Mines Ltd.	BC	Copper, molybdenum, gold, silver	21 000 t/d	Flotation	Active	5146
4	Kemess South Mine	AuRico Gold Inc.	BC	Gold, copper	49 000 t/d	Flotation	Active	20131
5	MAX Molybdenum Mine and Mill	FortyTwo Metals Inc.	BC	Molybdenum	1 000 t/d (mill)	Flotation	Active	20174
6	Copper Mountain Mine	Similco Mines Ltd. - Copper Mountain Mine (BC) Ltd.	BC	Copper, gold	35 000 t/d	Flotation	Active	-----
7	Yellowjacket Gold Mine	Yellowjacket Resources Ltd. - Athabasca Nuclear Corporation	BC	Gold	140 t/d	Gravity Concentration	Active	-----
8	Gibraltar Mine	Taseko Mines Ltd.	BC	Copper, molybdenum	85 000 t/d	Flotation	Active	1303
9	Minto Project	Minto Explorations Ltd.	YT	Copper, gold, silver	3 600 t/d	Flotation	Active	20189
10	Wolverine Project	Yukon Zinc Corporation	YT	Zinc, copper, lead, silver, gold	1 700 t/d	Flotation	Active	-----
11	Bellekeno Mine	Alexco Keno Hill Mining Corporation	YT	Silver, lead, zinc	400 t/d	Flotation	Operations suspended	-----
12	Key Lake Operation	Cameco Corporation	SK	Uranium	Mill only - annual production capacity of 18 million pounds U308	Leaching and solvent extraction	Active	1148
13	McArthur River Operation	Cameco Corporation	SK	Uranium	150 t/d	Crushing only – processed at Key Lake	Active	1149
14	Cigar Lake Project	Cameco Corporation	SK	Uranium	Not available	Crushing only – processed at Key Lake	Mine under development	19397
15	McClellan Lake Operation	AREVA Ressources Canada Inc.	SK	Uranium	300 t/d	Leaching and solvent extraction	Active	4866
16	Rabbit Lake Operation	Cameco Corporation	SK	Uranium	Annual production capacity of 16 million pounds U308	Leaching and solvent extraction	Active	1147
17	Seabee Gold Mine	Claude Resources Inc.	SK	Gold	800 t/d	Cyanidation	Active	23273
18	Jolu Mill	Golden Band Resources	SK	Gold	700 t/d	Gravity, cyanidation	On care and maintenance	25159
19	Santoy 7 Mine	Claude Resources Inc.	SK	Gold	Not available	Mining only – ore shipped to Seabee Mill	Active	23273
20	Santoy 8 Mine	Claude Resources Inc.	SK	Gold	400 t/d	Mining only – ore shipped to Seabee Mill	Active	23273
21	Flin Flon Complex	Hudson Bay Mining and Smelting Co. Ltd. - Hudbay Minerals Inc.	MB	Copper, lead, zinc	5 500 t/d	Flotation	Active	3414

Appendix B: Mining Facilities Subject to the *Metal Mining Effluent Regulations* in 2013 (cont'd)

Map #	Facility	Operator	Province/Territory (Location)	Products	Production Capacity	Process	Status	NPRI ID*
22	Trout Lake Mine	Hudson Bay Mining and Smelting Co. Ltd. - Hudbay Minerals Inc.	MB	Copper, zinc, gold, silver	2 500 t/d	Flotation	Active	21544
23	Chisel North Mine	Hudson Bay Mining and Smelting Co. Ltd. - Hudbay Minerals Inc.	MB	Zinc	750 t/d	Mining only – ore shipped to Snow Lake Mill	Active	21543
24	Snow Lake Mill	Hudson Bay Mining and Smelting Co. Ltd. - Hudbay Minerals Inc.	MB	Copper, zinc, selenium, tellurium, silver	3 600 t/d	Flotation	Active	3411
25	Birchtree Mine	Vale Canada Inc.	MB	Nickel, copper	3 175 t/d	Mining only – ore processed at Thompson Complex	Active	1473
26	Thompson Complex	Vale Canada Inc.	MB	Nickel, copper	12 000 t/d	Flotation	Active	1473
27	Bucko Lake Mine	CaNickel Mining Ltd.	MB	Nickel	1 000 t/d	Flotation	Active	23274
28	Snow Lake Mine	QMX Gold Corporation	MB	Gold	2 150 t/d	Cyanidation	Active	5219
29	Tanco Mine	Tantalum Mining Corporation of Canada Ltd.	MB	Tantalum, lithium, cesium, rubidium	700 t/d Varies by commodity	Gravity, flotation, dry grinding, leach	Active	2278
30	Rice Lake Gold Mine	San Gold Corporation	MB	Gold	1 250 t/d	Gravity concentration, flotation and carbon-in-leach (cyanide)	Active	11623
31	Cantung Mine	North American Tungsten Corporation Ltd.	NT	Tungsten	3 000 t/d	Flotation	Active	20225
32	Con Mine	Miramar Northern Mining Ltd.	NT	Gold			Closed	----
33	Giant Mine	Aboriginal Affairs and Northern Development Canada	NT	Gold			Closed	----
34	Lupin Operations	Lupin Mines Inc.	NU	Gold			On care and maintenance	----
35	Meadowbank Mine	Agnico-Eagle Ltd.	NU	Gold	8 500 t/d	Gravity, cyanidation,	Active	24216
36	Red Lake Mine	Goldcorp Canada Ltd.	ON	Gold	600 t/d	Gravity, cyanidation, flotation	Active	2710
37	Phoenix Gold Project	Rubicon Minerals Corporation	ON	Gold	1 250 t/d (permitted)		Mine under development	11852
38	Campbell Mine	Goldcorp Canada Ltd.	ON	Gold	≥ 1 000 t/d	Cyanidation	Active	2710
39	Musselwhite Mine	Goldcorp Canada Ltd.	ON	Gold	4 500 t/d	Cyanidation	Active	5656
40	Lac des Iles Mine	North American Palladium Ltd.	ON	Palladium, platinum, gold, copper, nickel, cobalt	15 000 t/d	Flotation	Active	7369
41	Golden Giant Mine	Newmont Canada Corporation	ON	Gold		Cyanidation	Closed	1400
42	Williams Mine	Barrick Gold Corporation – Williams Operating Corporation	ON	Gold	10 000 t/d	Cyanidation, gravity	Active	3197
43	David Bell Mine	Barrick Gold Corporation - DB Operating Corporation	ON	Gold	1 500 t/d	Mining only – ore shipped to Williams Mill	Active	2869
44	Eagle River Mine	Wesdome Gold Mines Ltd.	ON	Gold	850 t/d	Mining only – ore shipped to Eagle River Mill	Active	11123

Appendix B: Mining Facilities Subject to the *Metal Mining Effluent Regulations* in 2013 (cont'd)

Map #	Facility	Operator	Province/Territory (Location)	Products	Production Capacity	Process	Status	NPRI ID*
45	Eagle River Mill (Mill, Mishi Pit, and Magnacon Mine)	Wesdome Gold Mines Ltd.	ON	Gold	1 000 t/d	Cyanidation	Active	10010
46	Island Gold Project	Richmont Mines Inc.	ON	Gold	650 t/d	Cyanidation	Active	11454
47	Edwards Mine	Strike Minerals Inc.	ON	Gold			Mine under development	
48	Porcupine Gold Mines (Dome Mine, Owl Creek Pit, Pamour Mine)	Goldcorp Canada Ltd. and Goldcorp Inc.	ON	Gold	11 000 t/d (mill)	Cyanidation	Active	1941
49	Holloway Mine	St Andrew Goldfields Ltd.	ON	Gold	2 500 t/d	Mining only – ore shipped to Holt Mill	Active	7051
50	Clavos Mine	Sage Gold Inc.	ON	Gold	700 t/d		Mine under development	
51	Hislop Mine	St Andrew Goldfields Ltd.	ON	Gold	1 500 t/d	Mining only – ore shipped to Holt Mill	Active	----
52	Timmins West Complex	Lake Shore Gold Corporation	ON	Gold	6 000 t/d	Mining only, ore processed at Bell Creek Mill	Active	11794
53	Black Fox Mill Complex	Brigus Gold Corporation	ON	Gold	1 300 t/d (mill)	Carbon-in-leach (cyanide)	Active	11743
54	Bell Creek Mine and Mill	Lake Shore Gold Corporation	ON	Gold	1 500 t/d	Carbon-in-leach (cyanide)	Active	11796
55	Black Fox Mine	Brigus Gold Corporation	ON	Gold	1 500 t/d	Mining only – ore shipped to Black Fox Mill Complex	Active	3810
56	Redstone Mine	Liberty Mines Inc. / Northern Sun Mining Corp.	ON	Nickel	2 000 t/d (mill)	Flotation	Active	11514
57	McWatters Mine	Liberty Mines Inc. / Northern Sun Mining Corp.	ON	Nickel	1 500 t/d	Mining only – ore shipped to Redstone Mill	Active	11740
58	Kidd Mining Division	Xstrata Canada Corporation / Glencore Canada Corporation	ON	Zinc, copper, cadmium, indium, cobalt, selenium, silver, palladium, platinum	10 000 t/d	Mining and concentration only – ore shipped to Kidd Metallurgical Division	Active	10153
59	Kidd Metallurgical Division	Xstrata Canada Corporation / Glencore Canada Corporation	ON	Zinc, copper, cadmium, indium, cobalt, selenium, silver, palladium, platinum	10 000 t/d	Flotation	Closed	2815
60	Montcalm Project	Xstrata Canada Corporation / Glencore Canada Corporation	ON	Nickel, copper, cobalt		Mining only - ore shipped to Kidd Metallurgical Division	On care and maintenance	27714
61	Macassa Mine	Kirkland Lake Gold Inc.	ON	Gold	1 450 t/d	Cyanidation	Active	1568
62	Detour Lake Mine	Detour Gold Corporation	ON	Gold	55 000 t/d	Gravity, cyanidation	Active	11867
63	Young-Davidson Mine	AuRico Gold Inc.	ON	Gold	4 000 t/d mine, 10 000 t/d mill	Gravity, flotation, cyanidation	Active	26132

Appendix B: Mining Facilities Subject to the *Metal Mining Effluent Regulations* in 2013 (cont'd)

Map #	Facility	Operator	Province/Territory (Location)	Products	Production Capacity	Process	Status	NPRI ID*
64	McAlpine Mill Site	SMC (Canada) Ltd.	ON	Gold, silver, platinum, palladium	200 t/d processes metallurgical wastes	Gravity and flotation	Active	10622
65	Yukon Refinery	Yukon (36569) Inc.	ON	Nickel, cobalt, silver, gold	12 t/d	Hydromet reprocessing of existing mine tailings	Active	----
66	Lockerby Mine	First Nickel Inc.	ON	Copper, nickel, cobalt	700 t/d	Mining only – ore shipped to Strathcona Mill	Active	11238
67	Strathcona Tailings Treatment System (includes Fraser, Strathcona Mine and Mill, Craig and Onaping Mines; also includes Vale's Coleman and McCreedy East Mines)	Xstrata Canada Corporation / Glencore Canada Corporation	ON	Nickel, copper, cobalt, platinum, palladium	8 200 t/d	Flotation	Active	1233; 10199; 11154; 11608
68	Copper Cliff Complex (includes Clarabelle Mill, smelter, Copper Cliff North, Copper Cliff South, Creighton, Gertrude, Frood, and Stobie Mines)	Vale Canada Ltd.	ON	Nickel, copper, cobalt, platinum	27 300 t/d for Clarabelle Mill	Flotation	Active	444; 1465; 10201; 10203; 10204; 10205; 26263
69	Xstrata Nickel Sudbury Smelter - Sudbury Integrated Nickel Operations - Smelter	Xstrata Canada Corporation / Glencore Canada Corporation	ON	Nickel, copper, cobalt, platinum, palladium			Active	1236; 11588
70	Garson Mine	Vale Canada Ltd.	ON	Nickel, copper, cobalt, platinum	2 400 t/d	Mining only – ore shipped to Copper Cliff Complex – Clarabelle Mill	Active	10202
71	Crean Hill Mine	Vale Canada Ltd.	ON	Nickel, copper, cobalt, platinum	1 800 t/d	Mining only – ore shipped to Copper Cliff Complex – Clarabelle Mill	On care and maintenance	11877
72	Totten Mine	Vale Canada Ltd.	ON	Nickel, copper, precious metals	Designed to process 2 200 t/d		Mine under development	11878
73	Podolsky Mine	FNX Mining Company Inc.	ON	Nickel, copper, precious metals	1 000 t/d	Mining only – ore shipped to Copper Cliff Complex – Clarabelle Mill	On care and maintenance	11466
74	Shakespeare Nickel Mine	URSA Major Minerals Inc. / Wellgreen Platinum Ltd.	ON	Nickel, copper, cobalt, gold, platinum, palladium	Not available	Mining only	On care and maintenance	----

Appendix B: Mining Facilities Subject to the *Metal Mining Effluent Regulations* in 2013 (cont'd)

Map #	Facility	Operator	Province/Territory (Location)	Products	Production Capacity	Process	Status	NPRI ID*
75	Haley Plant	Timminco Ltd.	ON	Magnesium, calcium, strontium	7 500 t/y magnesium, 900 t/y calcium	Calcining, reduction, refining, melting, casting, extruding	Closed	----
76	Langlois (Mine)	Nyrstar	QC	Zinc, copper, gold, silver	2 500 t/d	Flotation	Active	----
77	Francoeur (Mine)	Richmont Mines Inc.	QC	Gold	360 t/d	Mining only - ore shipped to Camflo Mill	Closed	8789
78	Matagami (Mine)	Xstrata Canada Corporation / Glencore Canada Corporation	QC	Zinc, copper	2 000 t/d	Flotation	Active	1611; 8701; 8785
79	Veza (Mine)	North American Palladium Ltd. / Maudore Minerals Ltd. - Mines Aurbec Inc.	QC	Gold	750 t/d	Mining only - ore shipped to Géant Dormant Mill	Development suspended	----
80	Casa Berardi (Mine)	Mines Aurizon Inc. / Hecla Québec Incorporé	QC	Gold	1 600 to 2 200 t/d	Cyanidation	Active	8600
81	Éléonore (Mine)	Les Mines Opinaca Ltée	QC	Gold	7 000 t/d	Grinding, gravity, flotation, cyanide leaching, carbon-in-pulp	Mine under development	8803
82	Géant Dormant (Mine)	North American Palladium Ltd. / Maudore Minerals Ltd. - Mines Aurbec Inc.	QC	Gold	900 t/d	Cyanidation	Active	----
83	Barry (Mine)	Ressources Métanor Inc.	QC	Gold	500 t/d	Mining only – ore shipped to Bachelor Mill	Active	8809
84	Lac Bachelor	Ressources Métanor Inc.	QC	Gold	800 t/d	Cyanidation	Active	8769
85	Laronde (Mine)	Mines Agnico-Eagle Ltée	QC	Gold, silver, copper, zinc, lead	7 000 t/d	Flotation, leaching, gravity concentration	Active	99
86	Lapa (Project)	Mines Agnico-Eagle Ltée	QC	Gold	1 500 t/d	Mining only – ore shipped to LaRonde Mill	Active	8765
87	Mouska (Mine)	IAMGOLD Corporation	QC	Gold	600 t/d	Mining only – ore shipped to Doyon Mill	Active	8624
88	Doyon (Mine)	IAMGOLD Corporation	QC	Gold	3 500 t/d (mill)	Cyanidation	Mine ceased production; mill active	1608
89	Kiena (Mine)	Mines d'Or Wesdome Ltée	QC	Gold	2 000 t/d	Cyanidation	Active	2935
90	Canadian Malartic Mine	Corporation Minière Osisko	QC	Gold	55 000 t/d (mill)	Cyanidation	Active	25188
91	Sigma (Mine)	Century Mining Corporation	QC	Gold	5 000 t/d	Cyanidation	Active	----
92	Goldex (Mine)	Mines Agnico-Eagle Ltée	QC	Gold	6 900 t/d	Gravity, cyanidation, flotation	Active	8757
93	Beaufor	Mines Richmont Inc.	QC	Gold	820 t/d	Mining only – ore shipped to Camflo	Active	8610
94	Camflo (Mill)	Mines Richmont Inc.	QC	Gold	1 300 t/d (mill only)	Cyanidation	Active	8519

Appendix B: Mining Facilities Subject to the *Metal Mining Effluent Regulations* in 2013 (cont'd)

Map #	Facility	Operator	Province/Territory (Location)	Products	Production Capacity	Process	Status	NPRI ID*
95	Lac Herbin (Mine)	QMX Gold Corporation	QC	Gold	450 t/d	Mining only – ore shipped to Aurbel Mill	Active	8719
96	Aurbel (Mine)	QMX Gold Corporation	QC	Gold	800 t/d (mill)	Gravity, flotation, cyanidation	Active	8719
97	Monique (Project)	Mines Richmond Inc.	QC	Gold		Mining only - ore shipped to Camflo Mill	Active	----
98	Horne (Smelter)	Xstrata Canada Corporation / Glencore Canada Corporation	QC	Copper		Flotation	Mill closed	3623
99	Copper Rand (Mine)	CBay Minerals Inc.	QC	Copper, gold, silver		Gravity, flotation	On care and maintenance	----
100	Raglan (Mine)	Xstrata Canada Corporation / Glencore Canada Corporation	QC	Nickel, copper, cobalt, platinum, palladium	3 000 t/d	Flotation	Active	5448
101	Nunavik Nickel (Project)	Canadian Royalties Inc.	QC	Nickel, copper, cobalt, platinum, palladium	4,500 tpd (mill)	Flotation	Active	27059
102	Niobec (Mine)	IAMGOLD Corporation.	QC	Niobium	5000 t/d	Flotation, magnetic separation	Active	2100
103	Complexe métallurgique Sorel-Tracy	QIT-Fer et Titane Inc.	QC	Titanium, iron ore	Ore processed from Tio Mine	Metallurgical process	Active	27059
104	Tio (Mine)	QIT-Fer et Titane Inc.	QC	Titanium, iron ore	8 000 t/d	Mining only – ore processed at plant in Sorel, QC	Active	6425
105	Mont-Wright (Mine)	ArcelorMittal Mines Canada - ArcelorMittal Exploitation minière Canada s.e.n.c.	QC	Iron ore	125 000 t/d	Grinding and spiral separation	Active	6217
106	Fire Lake (Mine)	ArcelorMittal Mines Canada - ArcelorMittal Exploitation minière Canada s.e.n.c.	QC	Iron ore	2 000 t/d	Mining only – ore shipped by train to Mont-Wright Mine	Active	8778
107	Lac Bloom (Mine)	Société en commandite de la mine de fer du Lac Bloom	QC	Iron ore	8 Mt of concentrate per year	Grinding and spiral separation	Active	8783
108	James Mine	Labrador Iron Mines Ltd.	NL	Iron ore	15 000 t/d		Active	25157
109	Elross Lake Area Iron Ore Mine	Tata Steel Minerals Canada Ltd.	NL	Iron ore	5 700 t/d	Crushing and physical and magnetic separation	Active	26423
110	Wabush Mines Joint Venture - Scully Mine	Wabush Mines Joint Venture	NL	Iron ore	54 400 t/d	Grinding, spiral and high-tension separation	Active	5460
111	Iron Ore Company of Canada – Carol Project	Iron Ore Company of Canada	NL	Iron ore	140 000 t/d	Spiral and magnetic separation, flotation	Active	5013
112	Nugget Pond Mine	Rambler Metals and Mining Canada Ltd.	NL	Gold	500 t/d (mill only)	Hydromet (gold) – flotation (copper)	Active - mill only	8015
113	Ming Mine	Rambler Metals and Mining Canada Ltd.	NL	Copper, gold	650 t/d	Hydromet (gold) – flotation (copper)	Active	27063

Appendix B: Mining Facilities Subject to the *Metal Mining Effluent Regulations* in 2013 (cont'd)

Map #	Facility	Operator	Province/Territory (Location)	Products	Production Capacity	Process	Status	NPRI ID*
114	Pine Cove Property	Anaconda Mining Inc.	NL	Gold	1 000 t/d	Gravity / flotation	Active	----
115	Duck Pond Operations	Teck Resources Ltd.	NL	Copper, zinc, silver, gold	1 500 t/d	Flotation	Active	8084
116	Voisey's Bay Mine – Mill	Vale Canada Ltd. - Vale Newfoundland & Labrador Ltd.	NL	Nickel, copper, cobalt	6 000 t/d	Flotation	Active	6093
117	Beaver Brook Antimony Mine	Beaver Brook Antimony Mine Inc.	NL	Antimony	450 t/d	Flotation	On care and maintenance	----
118	Brunswick No. 12	Xstrata Canada Corporation / Glencore Canada Corporation	NB	Lead, zinc, copper, silver	10 000 t/d	Flotation	Closed	54; 4024
119	Caribou Mine - Mill	Trevali Mining (New Brunswick) Ltd	NB	Zinc, lead, silver, copper		Flotation	Closed	----
120	Restigouche Mine	Blue Note Mining Inc. – Blue Note Caribou Mines Inc. / Province of New Brunswick	NB	Zinc, lead, silver, copper		Mining only – ore shipped to Caribou Mill	Closed	----
121	ScoZinc Limited - Scotia Mine	Selwyn Resources Ltd.	NS	Zinc, lead	2 300 t/d (mill)	Flotation	On care and maintenance	----

*NPRI ID refers to the ID number assigned to a facility for reporting under the National Pollutant Release Inventory (NPRI). Mines subject to the MMER may have multiple NPRI ID numbers or may share NPRI IDs with other mines; this is because of the differences in facility definitions between the MMER and the NPRI. For more information on the NPRI, please see <http://ec.gc.ca/inrp-npri/default.asp?lang=En&n=4A577BB9-1>.

Appendix C: Mining Companies Included in the Assessment in 2013

Aboriginal Affairs and Northern Development Canada	Mines Aurizon Ltée
Alexco Keno Hill Mining Corporation	Mines d'Or Wesdome Ltée
Anaconda Mining Inc.	Mines Richmond Inc.
ArcelorMittal Exploitation minière Canada s.e.n.c.	Minto Explorations Ltd.
AREVA Resources Canada Inc.	Miramar Northern Mining Ltd.
Athabasca Nuclear Corporation	Newmont Canada Corporation
AuRico Gold Inc. -	North American Palladium Ltd.
Barrick Gold Corporation	North American Tungsten Corporation Ltd.
Beaver Brook Antimony Mine Inc.	Northern Sun Mining Corp.
Blue Note Mining Inc.	Nyrstar
Brigus Gold Corporation	Province of New Brunswick
Cameco Corporation	QIT-Fer et Titane Inc.
Canadian Royalties Inc.	QMX Gold Corporation
CaNickel Mining Ltd.	Rambler Metals and Mining Canada Ltd.
CBay Minerals Inc.	Ressources Métanor Inc.
Century Mining Corporation	Richmont Mines Inc.
Claude Resources Inc.	Rubicon Minerals Corp.
Copper Mountain Mine (BC) Ltd.	Sage Gold Inc
Corporation minière Osisko	San Gold Corporation
Detour Gold Corporation	Selwyn Resources Ltd.
First Nickel Inc.	SMC (Canada) Ltd.
FNX Mining Company Inc.	Société en commandite de la mine de fer du Lac Bloom
FortyTwo Metals Inc.	St Andrew Goldfields Ltd.
Glencore Canada Corporation	Strike Minerals Inc
Goldcorp Canada Ltd.	Tantalum Mining Corporation of Canada Ltd.
Goldcorp Inc.	Taseko Mines Ltd.
Golden Band Resources Inc.	Tata Steel Minerals Canada Ltd.
Hecla Québec Inc.	Teck Resources Ltd.
Holloway Mining Company	Thompson Creek Mining Ltd.
Huckleberry Mines Ltd.	Timminco Ltd.
Hudbay Minerals Inc.	Trevali Mining (New Brunswick) Ltd.
IAMGOLD Corporation	USRA Major Minerals Inc.
Iron Ore Company of Canada	Vale Canada Ltd.
Kirkland Lake Gold Inc.	Vale Newfoundland & Labrador Ltd.
Labrador Iron Mines Ltd.	Wabush Mines
Lake Shore Gold Corporation	Wellgreen Platinum Ltd.
Les Mines Opinaca Ltée	Wesdome Gold Mines Ltd.
Liberty Mines Inc.	Yellowjacket Resources Ltd.
Lupin Mines Inc.	Yukon (36569) Inc.
Maudore Minerals Ltd. – Mines Aurbec Inc.	Yukon Zinc Corporation
Mines Agnico-Eagle Ltée	

Appendix D: Performance Summary of Mine Effluents in 2013

Note to the Reader

The tables presented in this appendix summarize the effluent quality data for mines subject to the *Metal Mining Effluent Regulations* in 2013. The summaries include site identification (i.e., mine/mill name and effluent discharge name) and number of months of discharge. Table D1 summarizes the distribution of the non-compliant parameters for metals and pH, whereas Table D2 summarizes the results of rainbow trout acute lethality tests and *Daphnia magna* monitoring tests.

Metal exceedances represent the number of monthly mean concentrations that exceeded the prescribed limits for a given month, whereas pH exceedances represent the number of times that the monthly pH range was exceeded. The parameters included are arsenic (As), copper (Cu), cyanide (CN), lead (Pb), nickel (Ni), zinc (Zn), total suspended solids (TSS), total radium 226 (Ra-226) and pH.

Table D1: Summary of Exceedances for Mines Subject to the MMER in 2013: Prescribed Parameters and pH

Site Identification		Number of Months of Discharge	As	Cu	CN	Pb	Ni	Zn	TSS	Ra-226	pH Low	pH High
Mine/Mill Name	Effluent Discharge Name		0.5 mg/L	0.3 mg/L	1 mg/L	0.2 mg/L	0.5 mg/L	0.5 mg/L	15 mg/L	0.37 Bq/L	6	9.5
Aurbel (Mine)	Aurbel Final Effluent	5										
Barry (Mine)	V-Notch	1										
Beaufor	Final Effluent	12										
Beaver Brook Antimony Mine	Site 16 - Polishing Pond Discharge	10										
Bell Creek Mine and Mill	Effluent Treatment Plant Discharge	0										
Bell Creek Mine and Mill	Phase 1 and 2 Seepage Collection Ditch	0										
Bell Creek Mine and Mill	Phase 3 Seepage Collection Ditch	0										
Bell Creek Mine and Mill	Polishing Pond	10										
Bellekeno Mine	Be.KV43 - Bellekeno 625 Treatment Pond Decant	12										
Birchtree Mine	Birchtree Effluent Treatment Plant	12										
Black Fox Mill Complex	Direct Tailings Pond Effluent	0										
Black Fox Mill Complex	Polishing Pond Effluent	11	3									
Black Fox Mine	Pike River Discharge Point	12										
Black Fox Mine	Salve Creek Transitional Period Discharge Point	0										
Brunswick No. 12	3333 Final Effluent	12										
Bucko Lake Mine	Settling Pond Discharge	12								1		
Camflo (Mill)	Final Effluent	12										
Campbell Mine	WETOUT	7										
Canadian Malartic Mine	Final Effluent	8			1							
Cantung Mine	4-27-2 Culvert	12										
Cantung Mine	Polishing Pond Four and Bore Hole 4-28-1 (formerly Polishing Pond Four)	12										
Cantung Mine	Settling Pond 5-2	1										
Caribou Mine – Mill	Polishing Pond Effluent	12										
Casa Berardi (Mine)	Final Effluent – Point A	4										
Chisel North Mine	Chisel North Mine Discharge	10										
Cigar Lake Project	Station 2.2	7										
Cigar Lake Project	Station 2.2B	5										
Clavos Mine	Clavos Mine Drainage Area	0										
Clavos Mine	Sediment Pond	0										

Table D1: Summary of Exceedances for Mines Subject to the MMER in 2013: Prescribed Parameters and pH (cont'd)

Site Identification		Number of Months of Discharge	As	Cu	CN	Pb	Ni	Zn	TSS	Ra-226	pH Low	pH High
Mine/Mill Name	Effluent Discharge Name		0.5 mg/L	0.3 mg/L	1 mg/L	0.2 mg/L	0.5 mg/L	0.5 mg/L	15 mg/L	0.37 Bq/L	6	9.5
Endako Mines	En.SBC – Endako Pit	12										
Endako Mines	En.W2 – Denak West Pit	7										
Fire Lake (Mine)	Beaver Pit – Spillway (FL-2)	12										
Fire Lake (Mine)	Main Pit (FL-1)	0										
Flin Flon Complex	North Weir Discharge	12										
Francoeur (Mine)	Francoeur Final Effluent	3										
Garson Mine	Garson Mine	12					1					
Géant Dormant (Mine)	GD-E01 Final Effluent – Mine Water Pond	12										
Géant Dormant (Mine)	GD-E03 Polishing Pond 2A	5										
Giant Mine	Surveillance Network Program Station 43-1	3										
Gibraltar Mine	Gi.ESAD - East Saddle Dam	12									1	
Gibraltar Mine	Gi.FRD – Fraser River Diffuser	8										
Golden Giant Mine	ITF Emergency Spillway	0										
Golden Giant Mine	Waste Water Treatment Plant Effluent	12										
Goldex (Mine)	Final Effluent	0										
Goldex (Mine)	Final Effluent – Goldex Tailings Pond	9										
Goldex (Mine)	Final Effluent – Shaft No. 2	0										
Haley Plant	FDP 1	0										
Hislop Mine	Sedimentation Pond	12										
Holloway Mine	Final Discharge Point	4										
Horne (Smelter)	Final Effluent – Pelletier Sector	12										
Huckleberry Mine	Hu.EZDD – East Zone Diversion Ditch	0										
Huckleberry Mine	Hu.SC3 – Sediment Control Structure 3	12								6		
Huckleberry Mine	Hu.SC4 – Sediment Control Structure 4	12										
Huckleberry Mine	HU.SC6 - Sediment Control Structure 6	0										
Huckleberry Mine	HU.SC7 - Sediment Control Structure 7	2										

Table D1: Summary of Exceedances for Mines Subject to the MMER in 2013: Prescribed Parameters and pH (cont'd)

Site Identification		Number of Months of Discharge	As	Cu	CN	Pb	Ni	Zn	TSS	Ra-226	pH Low	pH High
Mine/Mill Name	Effluent Discharge Name		0.5 mg/L	0.3 mg/L	1 mg/L	0.2 mg/L	0.5 mg/L	0.5 mg/L	15 mg/L	0.37 Bq/L	6	9.5
Lac Bloom (Mine)	EFF-REC2 Mine Water and Recirculation Pond Treatment Unit Effluent	2										
Lac des Iles Mine	Final Discharge Point 1	6										
Lac des Iles Mine	Final Discharge Point 2	0										
Lac Herbin (Mine)	Final Effluent 1	0										
Lac Herbin (Mine)	Final Effluent 2	12										
Langlois (Mine)	Main Final Effluent	12										
Lapa (Project)	Final Effluent – Sedimentation Pond	12										
Laronde (Mine)	Final Effluent 3A	12										
Lockerby Mine	Number 4 Pond Effluent	12										
Lupin Operations	Tailings Polishing Pond No. 2	0										
Macassa Mine	C Dam	12										
Magnacon Mine (part of Eagle River Mill)	Magnacon Mine	0										
Matagami Mine	Final Effluent (WLD)	12										
MAX Molybdenum Mine and Mill	MM.SiteD – Mine Portal Settling Pond	0										
MAX Molybdenum Mine and Mill	MM.SiteL – Settling Ponds Decant	12										
MAX Molybdenum Mine and Mill	MM.TP – Tailings Pond Discharge	2										
McAlpine Mill Site	Polishing Pond	12										
McArthur River Operation	Station 2.1	12										
McArthur River Operation	Station 2.1B	0										
McArthur River Operation	Station 2.7	11										
McClellan Lake Operation	CM01-B	12										
McClellan Lake Operation	CM03	0										
McClellan Lake Operation	SC01	4										
McClellan Lake Operation	SP01	0										
McWatters Mine	MWD-2	7										
Meadowbank Mine	Attenuation Pond Discharge	0										
Meadowbank Mine	Vault Discharge	5										
Meadowbank Mine	Water Treatment Plant (formerly Dewatering Final Discharge 1)	3										
Ming Mine	Wastewater Treatment System Discharge	12						1				

Table D1: Summary of Exceedances for Mines Subject to the MMER in 2013: Prescribed Parameters and pH (cont'd)

Site Identification		Number of Months of Discharge	As	Cu	CN	Pb	Ni	Zn	TSS	Ra-226	pH Low	pH High
Mine/Mill Name	Effluent Discharge Name		0.5 mg/L	0.3 mg/L	1 mg/L	0.2 mg/L	0.5 mg/L	0.5 mg/L	15 mg/L	0.37 Bq/L	6	9.5
Rice Lake Gold Mine	FDP1 – End of Pipe	0										
Santoy 7 Mine	Santoy 7 Settling Pond	0										
Santoy 8 Mine	S8SP Final Discharge Point	5										
ScoZinc Limited - Scotia Mine	Polishing Pond Outlet	12										
Seabee Gold Mine	Final Discharge Point 1.2	12										
Seabee Gold Mine	Final Discharge Point 1.3	0										
Seabee Gold Mine	Final Discharge Point 1.5	4										
Shakespeare Nickel Mine	MISA Weir	3										
Sigma (Mine)	Final Effluent EFF1	8										
Snow Lake Mill	Anderson Lake Discharge	7										
Snow Lake Mine	SWM-03 (Birch Lake Outlet Embankment Decant Discharge)	0										
Strathcona Tailings Treatment System - Sudbury Integrated Nickel Operations - Strathcona	Fecunis RR Bridge	12										
Tanco Mine	West Discharge (Compliance Point)	12										
Thompson Complex	Misery Weir	12										
Thompson Complex	Station B	12										
Timmins West Complex	TR-1	12										
Tio (Mine)	E-Lac 166	9										
Tio (Mine)	Lake 211.4	8							1			
Tio (Mine)	Grondin Effluent	0										
Tio (Mine)	Resurgence Leo	12										
Tio (Mine)	Switch South	12										
Totten Mine	Totten Discharge	12										
Trout Lake Mine	Trout Lake Surface Sump Discharge	4										
Veza Mine	Polishing Pond	11							4			
Voisey's Bay Mine – Mill	Port Site Sedimentation Pond	1										
Voisey's Bay Mine – Mill	Sedimentation Pond A Discharge	0										
Voisey's Bay Mine – Mill	Sedimentation Pond B	0										
Voisey's Bay Mine – Mill	South of Ovoid Final Discharge Point	0										
Voisey's Bay Mine – Mill	South Sedimentation Pond	0										
Voisey's Bay Mine – Mill	Treated Effluent Final Discharge Point	12										

Table D1: Summary of Exceedances for Mines Subject to the MMR in 2013: Prescribed Parameters and pH (cont'd)

Site Identification		Number of Months of Discharge	As	Cu	CN	Pb	Ni	Zn	TSS	Ra-226	pH Low	pH High
Mine/Mill Name	Effluent Discharge Name		0.5 mg/L	0.3 mg/L	1 mg/L	0.2 mg/L	0.5 mg/L	0.5 mg/L	15 mg/L	0.37 Bq/L	6	9.5
Wabush Mines Joint Venture – Scully Mine	East Pit Dewatering East	0										
Wabush Mines Joint Venture – Scully Mine	East Pit 1 Dewatering	0										
Wabush Mines Joint Venture – Scully Mine	East Pit 2 Dewatering	12										
Wabush Mines Joint Venture – Scully Mine	Flora Lake Discharge	12							2			
Wabush Mines Joint Venture – Scully Mine	Knoll Lake Inflow	12										
Wabush Mines Joint Venture – Scully Mine	Loadout Ditch Discharge	0										
Wabush Mines Joint Venture – Scully Mine	Shops East Discharge	0										
Wabush Mines Joint Venture – Scully Mine	Shops South Discharge	0										
Wabush Mines Joint Venture – Scully Mine	Tailings Discharge	0										
Wabush Mines Joint Venture – Scully Mine	Tailings Line Emergency Dump Basin 1	12							6			
Wabush Mines Joint Venture – Scully Mine	West Pit Extension Settling Basin	12										
Williams Mine	Polishing Pond Discharge CP 400	0										
Williams Mine	Stormwater Pond CP 102	9										
Williams Mine	Stormwater Pond CP 0300	4										
Williams Mine	Stormwater Pond CP 400A	8							3			
Williams Mine	Treated Effluent CP 0201	6										
Wolverine Project	Wo.TSF – Tailings Storage Facility	0										
Xstrata Nickel Sudbury Smelter - Sudbury Integrated Nickel Operations - Smelter	Final Effluent at NIR Road	12										
Yellowjacket Gold Mine	Ye.TSF – Tailings Storage Facility	0										
Young-Davidson Mine	Mine Water Pond Final Discharge	9										
Yukon Refinery	Secondary Pond	4										
Total Exceedances			3	4	3	0	3	3	30	7	3	1

Table D2: Performance Summary for Mines Subject to the MMER in 2013: Rainbow Trout (RT) Acute Lethality and *Daphnia magna* (DM) Monitoring Tests

Site Identification		Number of Months of Discharge	RT Total	RT Fail	DM Total	DM Fail
Mine/Mill Name	Effluent Discharge Name					
Aurbel (Mine)	Aurbel Final Effluent	5	5		5	
Barry (Mine)	V-Notch	1	1		1	
Beaufor	Final Effluent	12	4		4	
Beaver Brook Antimony Mine	Site 16 - Polishing Pond Discharge	10	10		10	
Bell Creek Mine and Mill	Effluent Treatment Plant Discharge	0				
Bell Creek Mine and Mill	Phase 1 and 2 Seepage Collection Ditch	0				
Bell Creek Mine and Mill	Phase 3 Seepage Collection Ditch	0				
Bell Creek Mine and Mill	Polishing Pond	10	10		10	
Bellekeno Mine	Be.KV43 - Bellekeno 625 Treatment Pond Decant	12	12		12	
Birchtree Mine	Birchtree Effluent Treatment Plant	12	4		4	2
Black Fox Mill Complex	Direct Tailings Pond Effluent	0				
Black Fox Mill Complex	Polishing Pond Effluent	11	12		12	
Black Fox Mine	Pike River Discharge Point	12	12		12	1
Black Fox Mine	Salve Creek Transitional Period Discharge Point	0				
Brunswick No. 12	3333 Final Effluent	12	15	2	15	1
Bucko Lake Mine	Settling Pond Discharge	12	12		12	9
Camflo (Mill)	Final Effluent	12	5	1	5	
Campbell Mine	WETOUT	7	9		9	
Canadian Malartic Mine	Final Effluent	8	8		8	
Cantung Mine	4-27-2 Culvert	12	4		5	1
Cantung Mine	Polishing Pond Four and Bore Hole 4-28-1 (formerly Polishing Pond Four)	12	4		4	
Cantung Mine	Settling Pond 5-2	1	1		1	
Caribou Mine – Mill	Polishing Pond Effluent	12	12		12	
Casa Berardi (Mine)	Final Effluent – Point A	4	5		5	
Chisel North Mine	Chisel North Mine Discharge	10	4		4	
Cigar Lake Project	Station 2.2	7	3		4	1
Cigar Lake Project	Station 2.2B	5	3		3	
Clavos Mine	Clavos Mine Drainage Area	0				
Clavos Mine	Sediment Pond	0				
Complexe métallurgique Sorel-Tracy	Final Effluent QIT (Point 1.4)	12	12		12	
Complexe métallurgique Sorel-Tracy	EFF2.2-P84	12	12		12	
Con Mine	Surveillance Network Program Station 40-1	0				
Copper Cliff Complex	Copper Cliff Wastewater Treatment Plant	11	4		4	
Copper Cliff Complex	Nolin Creek Spillway	0				
Copper Cliff Complex	Nolin Creek Wastewater Treatment Plant	11	4		4	
Copper Mountain Mine	Co.SW07 - W. Dam Seepage	12	4		4	
Copper Mountain Mine	Co.SW09 - Level 6 Adit	12	4		4	
Copper Mountain Mine	Co.SW21 - D4 Dump Drainage	12	4		4	
Copper Mountain Mine	Co.SW27 - E Dam Seepage	4	1		1	
Copper Mountain Mine	Co.SW36 - Lost Horse Gulch Drainage	12	4		4	
Copper Mountain Mine	Co.SW37 - D2 Dump Drainage	12	4		4	
Copper Rand (Mine)	Final Discharge Point 2.1c	12	3		3	
Crean Hill Mine	Crean Hill Mine Waste Water Treatment System	12	4		4	
David Bell Mine	Quarry Effluent	0	5		5	
David Bell Mine	Sedimentation Pond Effluent	7	7		7	
Detour Lake Mine	T4	0				

**Table D2: Performance Summary for Mines Subject to the MMER in 2013: Rainbow (cont'd)
Trout (RT) Acute Lethality and *Daphnia magna* (DM) Monitoring Tests**

Site Identification		Number of Months of Discharge	RT Total	RT Fail	DM Total	DM Fail
Mine/Mill Name	Effluent Discharge Name					
Doyon (Mine)	Pond A Final Effluent (D-203)	12	4		4	
Duck Pond Operations	Polishing Pond Effluent	10	12		12	3
Eagle River Mill	Eagle River Mill	2	2	1	2	1
Eagle River Mine	FDP 1	12	5		5	
Edwards Mine	Edwards Mine Effluent Discharge 1	6	5		5	
Éléonore Mine	Final Effluent - Waste Rock Pile	12	26	3	23	7
Eloss Lake Area Iron Ore Mine	Outlet of Sedimentation Pond 2	5	2		2	
Endako Mines	En.A1 – Tailings Pond 1 South	12	4		4	
Endako Mines	En.H1 – Tailings Pond 2 Higginbotham	12	4		4	
Endako Mines	En.N1 – Tailings Pond 1 North	12	4		4	
Endako Mines	En.S2 – Tailings Pond 2 South	12	4		4	
Endako Mines	En.SBC – Endako Pit	12	4		4	
Endako Mines	En.W2 – Denak West Pit	7	2		2	
Fire Lake (Mine)	Beaver Pit – Spillway (FL-2)	12	12		12	
Fire Lake (Mine)	Main Pit (FL-1)	0				
Flin Flon Complex	North Weir Discharge	12	4		4	1
Francoeur (Mine)	Francoeur Final Effluent	3	3		2	
Garson Mine	Garson Mine	12	4		4	
Géant Dormant (Mine)	GD-E01 Final Effluent – Mine Water Pond	12	4		4	
Géant Dormant (Mine)	GD-E03 Polishing Pond 2A	5	5		5	
Giant Mine	Surveillance Network Program Station 43-1	3	3		3	
Gibraltar Mine	Gi.ESAD - East Saddle Dam	12	8		8	
Gibraltar Mine	Gi.FRD – Fraser River Diffuser	8	7		7	
Golden Giant Mine	ITF Emergency Spillway	0				
Golden Giant Mine	Waste Water Treatment Plant Effluent	12	13		12	
Goldex (Mine)	Final Effluent	0				
Goldex (Mine)	Final Effluent – Goldex Tailings Pond	9	9		8	
Goldex (Mine)	Final Effluent – Shaft No. 2	0				
Haley Plant	FDP 1	0				
Hislop Mine	Sedimentation Pond	12	13		13	
Holloway Mine	Final Discharge Point	4	4		4	1
Horne (Smelter)	Final Effluent – Pelletier Sector	12	4		4	
Huckleberry Mine	Hu.EZDD – East Zone Diversion Ditch	0				
Huckleberry Mine	Hu.SC3 – Sediment Control Structure 3	12	4		4	
Huckleberry Mine	Hu.SC4 – Sediment Control Structure 4	12	4		4	
Huckleberry Mine	HU.SC6 - Sediment Control Structure 6	0				
Huckleberry Mine	HU.SC7 - Sediment Control Structure 7	2	1		1	
Huckleberry Mine	HU.SC8 - Sediment Control Structure 8	3	2		2	
Huckleberry Mine	Hu.TRO - Tahtsa Reach Outfall	8	2		2	
Iron Ore Company of Canada – Carol Project	Hakim Culvert	12	13		13	
Iron Ore Company of Canada – Carol Project	Julienne Narrows	12	12		12	
Iron Ore Company of Canada – Carol Project	MD5	7	7		7	

Table D2: Performance Summary for Mines Subject to the MMER in 2013: Rainbow (cont'd) Trout (RT) Acute Lethality and *Daphnia magna* (DM) Monitoring Tests

Site Identification		Number of Months of Discharge	RT Total	RT Fail	DM Total	DM Fail
Mine/Mill Name	Effluent Discharge Name					
Iron Ore Company of Canada – Carol Project	MD30	2	2		2	
Island Gold Project	IG-2	9	7		7	
James Mine	Ruth Pit Outlet	12	12		12	
Jolu Mill	Mallard Tailings Management Facility - Cell C Outlet Berm	6	6		6	
Kemess South Mine	KS.WQ14 – Runoff	12	4		4	
Kemess South Mine	KS.WQBL – Sedimentation Pond Decant	4	3		3	
Kemess South Mine	KS.WQ-TSP - Tailings Sedimentation Pond	4	4		4	
Key Lake Operation	Station 1.2 – Dewatering Discharge to Horsefly Lake	12	5		5	
Key Lake Operation	Station 1.4 – Mill Effluent to Wolf Lake	12	5		5	2
Kidd Metallurgical Division	Final Effluent Monitoring Point	12	4		4	
Kidd Mining Division	Treatment Pond Final Effluent	9	4		4	
Kiena (Mine)	Final Effluent	7	7	1	7	
Lac Bachelor	Parshall Flume	12	12		12	
Lac Bloom (Mine)	Mill Site - Surface Drainage Pond Effluent	0				
Lac Bloom (Mine)	Mine Site - Surface Drainage Sedimentation Pond B2 Effluent	0				
Lac Bloom (Mine)	Recirculation Pond Water Treatment Plant Effluent	1	1		1	
Lac Bloom (Mine)	EFF-MIN Mine Water Treatment Unit Effluent	0				
Lac Bloom (Mine)	EFF-REC2 Mine Water and Recirculation Pond Treatment Unit Effluent	2	2		2	
Lac des Iles Mine	Final Discharge Point 1	6	6		6	
Lac des Iles Mine	Final Discharge Point 2	0				
Lac Herbin (Mine)	Final Effluent 1	0				
Lac Herbin (Mine)	Final Effluent 2	12	4		4	
Langlois (Mine)	Main Final Effluent	12	12		12	
Lapa (Project)	Final Effluent – Sedimentation Pond	12	12		12	
Laronde (Mine)	Final Effluent 3A	12	12		12	
Lockerby Mine	Number 4 Pond Effluent	12	5		5	
Lupin Operations	Tailings Polishing Pond No. 2	0				
Macassa Mine	C Dam	12	12		12	
Magnacon Mine (part of Eagle River Mill)	Magnacon Mine	0				
Matagami Mine	Final Effluent (WLD)	12	12		12	
MAX Molybdenum Mine and Mill	MM.SiteD – Mine Portal Settling Pond	0				
MAX Molybdenum Mine and Mill	MM.SiteL – Settling Ponds Decant	12	3		3	
MAX Molybdenum Mine and Mill	MM.TP – Tailings Pond Discharge	2				
McAlpine Mill Site	Polishing Pond	12	4		17	6
McArthur River Operation	Station 2.1	12	4		4	
McArthur River Operation	Station 2.1B	0				
McArthur River Operation	Station 2.7	11	4		4	

**Table D2: Performance Summary for Mines Subject to the MMER in 2013: Rainbow (cont'd)
Trout (RT) Acute Lethality and *Daphnia magna* (DM) Monitoring Tests**

Site Identification		Number of Months of Discharge	RT Total	RT Fail	DM Total	DM Fail
Mine/Mill Name	Effluent Discharge Name					
McClean Lake Operation	CM01-B	12	4		4	
McClean Lake Operation	CM03	0				
McClean Lake Operation	SC01	4	2		2	
McClean Lake Operation	SP01	0				
McWatters Mine	MWD-2	7	7		7	
Meadowbank Mine	Attenuation Pond Discharge	0				
Meadowbank Mine	Vault Discharge	5	4		4	
Meadowbank Mine	Water Treatment Plant (formerly Dewatering Final Discharge 1)	3	2		2	
Ming Mine	Wastewater Treatment System Discharge	12	16		16	7
Minto Project	Mi.W3 – Runoff Main Water Dam	12	3		3	
Mishi Pit (part of Eagle River Mill)	Mishi Pit	11	11		11	
Monique (Project)	Monique Final Effluent	9	18	4	18	2
Montcalm Project	Montcalm Final Effluent	8	9		9	
Mont-Wright (Mine)	HS-1	12	5		5	
Mont-Wright (Mine)	MS-2	9	12		12	1
Mouska (Mine)	Final Effluent	12	4		4	
Musselwhite Mine	FDP 1	5	5		5	
Myra Falls Operations	MF11A – Runoff Myra Ponds Effluent	12	4		4	
Niobec (Mine)	Final Effluent	12	4		6	
Nugget Pond Mine	Polishing Pond Effluent	12	12		12	
Nunavik Nickel (Project)	Expo Final Effluent	3	5		5	2
Nunavik Nickel (Project)	Mésamax Final Effluent	1	1		1	1
Phoenix Gold Project	South Discharge Point	3	2		1	
Pine Cove Property	Polishing Pond (formerly Tailings Pond Discharge)	12	4		4	
Podolsky Mine	Norman North Bog Outlet	12	4		4	
Porcupine Gold Mines (Dome Mine)	Mine Effluent Treatment Plant – Dome Mine	5	5		5	
Porcupine Gold Mines (Dome Mine)	Mine Water Storage Pond – Dome Mine	12	4		4	
Porcupine Gold Mines (Owl Creek Pit)	Owl Creek Discharge 1	0				
Porcupine Gold Mines (Owl Creek Pit)	Owl Creek Discharge 2	2	2		2	
Porcupine Gold Mines (Pamour Mine)	Pamour Mine Water	10	5		5	
Rabbit Lake Operation	Station 2.3.3	12	4		4	
Raglan (Mine)	DIR-HSA	0				
Raglan (Mine)	DIR-SPOON	2	2		2	
Raglan (Mine)	DIR-UT	6	6		6	2
Raglan (Mine)	DIR-Z3	5	5		5	1
Red Lake Mine	G1	0				
Red Lake Mine	G2	4	4		4	
Red Lake Mine	Shaft 3 Mine Water Settling Pond	0				
Redstone Mine	RSD-2	0				
Restigouche Mine	Mixing Structure Discharge	0				

**Table D2: Performance Summary for Mines Subject to the MMER in 2013: Rainbow (cont'd)
Trout (RT) Acute Lethality and *Daphnia magna* (DM) Monitoring Tests**

Site Identification		Number of Months of Discharge	RT Total	RT Fail	DM Total	DM Fail
Mine/Mill Name	Effluent Discharge Name					
Rice Lake Gold Mine	FDP1 – End of Pipe	0				
Santoy 7 Mine	Santoy 7 Settling Pond	0				
Santoy 8 Mine	S8SP Final Discharge Point	5	5		5	
ScoZinc Limited - Scotia Mine	Polishing Pond Outlet	12	4		4	
Seabee Gold Mine	Final Discharge Point 1.2	12	4		4	
Seabee Gold Mine	Final Discharge Point 1.3	0				
Seabee Gold Mine	Final Discharge Point 1.5	4	4		4	
Shakespeare Nickel Mine	MISA Weir	3	2		2	
Sigma (Mine)	Final Effluent EFF1	8	6	1	5	
Snow Lake Mill	Anderson Lake Discharge	7	7		7	
Snow Lake Mine	SWM-03 (Birch Lake Outlet Embankment Decant Discharge)	0				
Strathcona Tailings Treatment System - Sudbury Integrated Nickel Operations - Strathcona	Fecunis RR Bridge	12	5		5	
Tanco Mine	West Discharge (Compliance Point)	12	10	1	10	
Thompson Complex	Misery Weir	12	4		4	
Thompson Complex	Station B	12	4		4	
Timmins West Complex	TR-1	12	12		12	
Tio (Mine)	E-Lac 166	9	9		9	
Tio (Mine)	Lake 211.4	8	8		8	
Tio (Mine)	Grondin Effluent	0				
Tio (Mine)	Resurgence Leo	12	12		12	
Tio (Mine)	Switch South	12	12		12	
Totten Mine	Totten Discharge	12	4		4	
Trout Lake Mine	Trout Lake Surface Sump Discharge	4	2		2	
Veza Mine	Polishing Pond	11	41	17	40	8
Voisey's Bay Mine – Mill	Port Site Sedimentation Pond	1	1		1	
Voisey's Bay Mine – Mill	Sedimentation Pond A Discharge	0				
Voisey's Bay Mine – Mill	Sedimentation Pond B	0				
Voisey's Bay Mine – Mill	South of Ovoid Final Discharge Point	0				
Voisey's Bay Mine – Mill	South Sedimentation Pond	0				
Voisey's Bay Mine – Mill	Treated Effluent Final Discharge Point	12	15	1	13	4
Wabush Mines Joint Venture – Scully Mine	East Pit Dewatering East	0				
Wabush Mines Joint Venture – Scully Mine	East Pit 1 Dewatering	0				
Wabush Mines Joint Venture – Scully Mine	East Pit 2 Dewatering	12	4		4	
Wabush Mines Joint Venture – Scully Mine	Flora Lake Discharge	12	4		4	
Wabush Mines Joint Venture – Scully Mine	Knoll Lake Inflow	12	4		4	1

Appendix E: Effluent Quality Data for Mines in 2013

Note to the Reader

The tables in Appendix E show summarized monthly data for each final discharge point for each mine which was subject to the *Metal Mining Effluent Regulations* (MMER) in 2013. Identifying information includes:

- Mine/Mill Name
- Mine/Mill Operator Name
- Mine/Mill Product(s) (main product listed first)
- Mine/Mill Address
- Identification of Final Effluent Discharge Point

There is one page per final discharge point showing the monthly mean data reported by the mine owner or operator to Environment Canada as per section 22 of the Regulations. The tables are sorted in alphabetical order based on mine/mill name.

Each row in the tables represents a parameter for which testing is required under the MMER and the numbers shown in the table are the averages of all of the reported data for each month, for each parameter. The limits for each parameter are also shown, in the second data column in the table. Parameters which exceeded the regulatory limits are highlighted in the tables for ease of identification.

Results of testing for acute lethality in rainbow trout (as per section 14 of the Regulations) and for *Daphnia Magna* monitoring (section 17 of the Regulations) are shown in the 4 rows near the bottom of the tables. A “pass” for the rainbow trout acute lethality test and the *Daphnia magna* monitoring test indicates that the percentage of mortality was less than or equal to 50%. A “Fail” indicates that the percentage of mortality was greater than 50%.

The additional notations used in the tables are explained at the bottom of each page, including “ND” for No Deposit and “NMR” for No Measurement Required. “No Deposit (ND)” is used in the case where there is no effluent flow from a final discharge point in a given month. “No Measurement Required (NMR)” indicates that the mine has met the requirements of Paragraphs 13(1) and 13(2) of the MMER which allow the mine to conduct the testing of effluent on a quarterly basis (versus weekly, as is otherwise required) and therefore was not required to report on the given parameter in that month.

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Aurbel (Mine)													
Operator Name	QMX Gold Corporation													
Product(s)	Gold													
Address	1900 Brador Road, Val-d'Or, Quebec J9P 0A4													
Effluent Discharge Point	Aurbel Final Effluent													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0214	0.0057	0.0896	0.0793	0.0703	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	0.0600	0.0561	0.0439	0.0473	0.0484	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	0.0310	0.0086	0.0358	0.0258	0.0193	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	0.0020	0.0019	0.0017	0.0013	0.0024	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0045	0.0047	0.0108	0.0171	0.0173	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0120	0.0034	0.0068	0.0088	0.0315	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	7.50	1.50	2.20	1.90	5.00	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	0.0010	0.0023	0.0013	0.0024	0.0010	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	7.6	7.1	7.5	7.6	7.8	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	7.8	7.9	7.7	7.8	7.9	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	13,071	26,717	49,230	38,593	39,834	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	1	1	1	1	1	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	1	1	1	1	1	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Barry (Mine)													
Operator Name	Ressources Métanor Inc.													
Product(s)	Gold													
Address	200 Mine Road, Desmaraisville, Quebec J0Y 1H0													
Effluent Discharge Point	V-Notch													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0005	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0010	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NMR	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0001	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0005	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0140	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.1	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.1	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4,154	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	No radium 226 results were provided for the month of November													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Beaufor													
Operator Name	Mines Richmond Inc.													
Product(s)	Gold													
Address	776 Perron Road, Val-d'Or, Quebec J9P 0C3													
Effluent Discharge Point	Final Effluent													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0003	0.0008	0.0007	0.0003	0.0003	0.0005	0.0003	0.0003	0.0003	0.0003	0.0003	0.0002	
Cu (mg/L)	0.3	0.0084	0.0111	0.0115	0.0100	0.0114	0.0095	0.0074	0.0050	0.0087	0.0050	0.0086	0.0078	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0002	0.0025	0.0025	0.0002	0.0002	0.0004	0.0002	0.0008	0.0007	0.0002	0.0002	0.0006	
Ni (mg/L)	0.5	0.0054	0.0052	0.0047	0.0033	0.0044	0.0024	0.0047	0.0051	0.0047	0.0032	0.0041	0.0054	
Zn (mg/L)	0.5	0.0063	0.0024	0.0030	0.0026	0.0061	0.0009	0.0052	0.0023	0.0058	0.0016	0.0023	0.0066	
TSS (mg/L)	15	7.60	8.50	11.25	14.75	10.80	7.00	3.50	3.38	5.50	3.20	6.50	3.80	
Ra-226 (Bq/L)	0.37	0.0050	NMR	NMR	NMR	0.0010	NMR	0.0030	NMR	NMR	NMR	0.0010	NMR	
pH low	≥ 6.0	7.2	7.1	7.2	7.3	7.5	7.4	7.3	7.3	7.2	7.5	7.3	6.8	
pH high	≤ 9.5	7.7	7.3	7.5	7.7	7.7	7.6	7.5	7.5	7.5	7.6	7.7	8.0	
Flow (m3/month)	—	21,252	17,710	22,033	30,229	29,015	27,862	28,437	25,485	24,088	27,632	27,838	24,860	
Rainbow Trout	Pass	1	NMR	NMR	NMR	1	NMR	1	NMR	NMR	NMR	1	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	NMR	NMR	NMR	1	NMR	1	NMR	NMR	NMR	1	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Beaver Brook Antimony Mine													
Operator Name	Beaver Brook Antimony Mine Inc.													
Product(s)	Antimony													
Address	P.O. Box 160, Glenwood, Newfoundland and Labrador A0G 2K0													
Effluent Discharge Point	Site 16 - Polishing Pond Discharge													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	0.0660	0.0740	0.0710	0.0843	0.1086	0.1318	0.1155	0.1170	0.0990	0.0920	
Cu (mg/L)	0.3	ND	ND	0.0010	0.0015	0.0016	0.0010	0.0012	0.0038	0.0015	0.0088	0.0012	0.0010	
CN (mg/L)	1.0	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	ND	ND	0.0050	0.0064	0.0010	0.0006	0.0010	0.0007	0.0022	0.0019	0.0018	0.0033	
Ni (mg/L)	0.5	ND	ND	0.0170	0.0153	0.0114	0.0088	0.0092	0.0115	0.0138	0.0125	0.0124	0.0158	
Zn (mg/L)	0.5	ND	ND	0.0215	0.0083	0.0079	0.0078	0.0082	0.0073	0.0098	0.0093	0.0136	0.0194	
TSS (mg/L)	15	ND	ND	14.50	8.50	5.20	7.25	5.20	3.50	7.25	6.00	7.00	4.80	
Ra-226 (Bq/L)	0.37	ND	ND	0.0025	0.0054	0.0030	0.0080	NMR	NMR	0.0080	NMR	0.0200	NMR	
pH low	≥ 6.0	ND	ND	8.0	8.1	8.2	8.3	8.2	8.1	8.0	8.1	7.9	8.0	
pH high	≤ 9.5	ND	ND	8.1	8.5	8.7	8.7	8.6	8.5	8.3	8.1	8.2	8.1	
Flow (m3/month)	—	ND	ND	32,621	41,838	45,288	42,557	22,690	22,314	38,217	40,755	42,183	30,669	
Rainbow Trout	Pass	ND	ND	1	1	1	1	1	1	1	1	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	1	1	1	1	1	1	1	1	1	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Bell Creek Mine and Mill													
Operator Name	Lake Shore Gold Corporation													
Product(s)	Gold													
Address	800 Florence Street, Porcupine, Ontario P0N 1C0													
Effluent Discharge Point	Effluent Treatment Plant Discharge													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Bell Creek Mine and Mill												
Operator Name		Lake Shore Gold Corporation												
Product(s)		Gold												
Address		800 Florence Street, Porcupine, Ontario P0N 1C0												
Effluent Discharge Point		Phase 1 and 2 Seepage Collection Ditch												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Bell Creek Mine and Mill													
Operator Name	Lake Shore Gold Corporation													
Product(s)	Gold													
Address	800 Florence Street, Porcupine, Ontario P0N 1C0													
Effluent Discharge Point	Phase 3 Seepage Collection Ditch													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Bell Creek Mine and Mill												
Operator Name	Lake Shore Gold Corporation												
Product(s)	Gold												
Address	800 Florence Street, Porcupine, Ontario P0N 1C0												
Effluent Discharge Point	Polishing Pond												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	0.0253	0.0233	0.0172	0.0688	0.0175	0.0179	0.0197	0.0209	0.0216	0.0242
Cu (mg/L)	0.3	ND	ND	0.0159	0.0149	0.0054	0.0032	0.0035	0.0032	0.0043	0.0036	0.0045	0.0066
CN (mg/L)	1.0	ND	ND	0.0195	0.0098	0.0030	0.0025	0.0025	0.0021	0.0010	0.0020	0.0065	0.0119
Pb (mg/L)	0.2	ND	ND	0.0003	0.0011	0.0006	0.0005	0.0003	0.0005	0.0009	0.0010	0.0005	0.0008
Ni (mg/L)	0.5	ND	ND	0.0179	0.0166	0.0098	0.0075	0.0060	0.0059	0.0077	0.0088	0.0160	0.0148
Zn (mg/L)	0.5	ND	ND	0.0050	0.0035	0.0056	0.0027	0.0028	0.0021	0.0043	0.0031	0.0030	0.0046
TSS (mg/L)	15	ND	ND	3.00	4.25	14.40	4.33	2.40	1.59	0.91	0.88	3.30	1.30
Ra-226 (Bq/L)	0.37	ND	ND	0.0050	0.0050	NMR	NMR	NMR	0.0050	NMR	NMR	NMR	0.0025
pH low	≥ 6.0	ND	ND	7.5	7.6	7.5	7.7	7.5	7.7	8.0	7.5	8.0	7.7
pH high	≤ 9.5	ND	ND	7.8	7.8	8.2	8.2	8.3	8.0	8.4	8.1	8.4	8.0
Flow (m3/month)	—	ND	ND	28,230	94,504	147,222	66,325	65,366	105,256	57,633	83,539	63,800	56,962
Rainbow Trout	Pass	ND	ND	1	1	1	1	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	1	1	1	1	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Bellekeno Mine													
Operator Name	Alexco Keno Hill Mining Corporation													
Product(s)	Silver-Lead-Zinc													
Address	Box 7, Site 2, Elsa, Yukon Y0B 1J0													
Effluent Discharge Point	Be.KV43 - Bellekeno 625 Treatment Pond Decant													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0113	0.0113	0.0097	0.0077	0.0063	0.0065	0.0044	0.0075	0.0032	0.0024	0.0022	0.0020	
Cu (mg/L)	0.3	0.0007	0.0006	0.0008	0.0015	0.0019	0.0021	0.0021	0.0022	0.0016	0.0020	0.0023	0.0021	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0537	0.0640	0.0489	0.0334	0.0062	0.0098	0.0118	0.0224	0.0160	0.0051	0.0183	0.0230	
Ni (mg/L)	0.5	0.0086	0.0091	0.0264	0.0067	0.0313	0.0060	0.0063	0.0059	0.0063	0.0141	0.0180	0.0148	
Zn (mg/L)	0.5	0.0375	0.0325	0.0262	0.0267	0.0265	0.0251	0.0301	0.0283	0.1270	0.0332	0.0852	0.0568	
TSS (mg/L)	15	5.24	2.70	2.40	1.82	0.63	0.50	0.50	1.55	0.50	2.90	4.18	6.88	
Ra-226 (Bq/L)	0.37	NMR	0.0100	NMR	NMR	0.0050	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR	
pH low	≥ 6.0	7.7	7.6	7.6	7.8	7.8	7.2	7.6	7.4	7.5	8.3	8.4	8.2	
pH high	≤ 9.5	7.9	7.9	7.8	8.3	8.0	8.2	7.9	8.3	7.7	8.9	8.8	8.9	
Flow (m3/month)	—	8,919	7,330	7,821	7,180	6,214	9,642	11,383	10,303	2,423	5,973	8,787	9,048	
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Birchtree Mine												
Operator Name	Vale Canada Ltd.												
Product(s)	Nickel-Copper												
Address	P.O. Box 5000, Thompson, Manitoba R8N 1P3												
Effluent Discharge Point	Birchtree Effluent Treatment Plant												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0141	0.0127	0.0138	0.0124	0.0170	0.0068	0.0164	0.0151	0.0221	0.0149	0.0048	0.0063
Cu (mg/L)	0.3	0.0325	0.0088	0.0050	0.0050	0.0063	0.0050	0.0050	0.0088	0.0075	0.0050	0.0050	0.0063
CN (mg/L)	1.0	NMR	0.0089	NMR	NMR	0.0032	NMR	0.0027	NMR	0.0026	0.0033	NMR	NMR
Pb (mg/L)	0.2	0.0195	0.0150	0.0233	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0193	0.0150
Ni (mg/L)	0.5	0.0348	0.0198	0.0258	0.0148	0.0106	0.0200	0.0120	0.0100	0.0125	0.0260	0.0100	0.0200
Zn (mg/L)	0.5	0.0138	0.0073	0.0080	0.0050	0.0050	0.0050	0.0082	0.0050	0.0073	0.0084	0.0050	0.0073
TSS (mg/L)	15	2.00	0.30	3.90	1.20	3.85	1.20	1.48	1.00	1.00	1.00	2.45	1.00
Ra-226 (Bq/L)	0.37	0.0638	0.0500	0.0350	0.0920	0.1415	0.1070	0.1122	0.1535	0.1178	0.0970	0.0958	0.0660
pH low	≥ 6.0	6.6	6.9	6.8	6.9	6.8	6.7	6.7	6.8	6.9	6.8	6.9	6.7
pH high	≤ 9.5	7.1	7.0	7.0	7.1	6.9	7.0	7.0	6.9	7.1	7.0	7.1	7.1
Flow (m3/month)	—	26,652	21,343	23,607	30,648	29,907	26,916	28,607	29,016	25,298	37,870	27,503	25,273
Rainbow Trout	Pass	NMR	1	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	-	NMR	-	NMR	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	1	-	1	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Black Fox Mill Complex													
Operator Name	Brigus Gold Corporation													
Product(s)	Gold													
Address	Rural Route 2, Matheson, Ontario P0K 1N0													
Effluent Discharge Point	Direct Tailings Pond Effluent													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Black Fox Mill Complex												
Operator Name	Brigus Gold Corporation												
Product(s)	Gold												
Address	Rural Route 2, Matheson, Ontario P0K 1N0												
Effluent Discharge Point	Polishing Pond Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.4728	0.4880	0.5003	0.4870	0.3606	0.5035	0.4310	0.2127	0.2475	0.2583	0.6353	ND
Cu (mg/L)	0.3	0.0873	0.0763	0.0468	0.0233	0.0714	0.0329	0.0325	0.0186	0.0215	0.0270	0.0957	ND
CN (mg/L)	1.0	0.2137	0.3098	0.1487	0.1650	0.1051	0.0582	0.0597	0.0473	0.0245	0.0123	0.0652	ND
Pb (mg/L)	0.2	0.0005	0.0005	0.0005	0.0005	0.0005	0.0010	0.0005	0.0005	0.0013	0.0005	0.0005	ND
Ni (mg/L)	0.5	0.3584	0.2928	0.2525	0.2040	0.2936	0.1838	0.2078	0.1030	0.1330	0.1847	0.3230	ND
Zn (mg/L)	0.5	0.0024	0.0043	0.0027	0.0350	0.0053	0.0026	0.0015	0.0023	0.0057	0.0010	0.0027	ND
TSS (mg/L)	15	7.34	2.06	3.51	1.00	5.04	4.43	1.25	1.71	1.73	1.45	3.53	ND
Ra-226 (Bq/L)	0.37	0.0034	0.0068	0.0061	0.0080	NMR	NMR	0.0025	NMR	NMR	0.0025	NMR	ND
pH low	≥ 6.0	7.1	7.3	6.8	7.7	6.7	7.2	7.8	7.2	7.2	7.6	7.7	ND
pH high	≤ 9.5	8.1	7.9	7.3	7.7	8.0	8.1	8.2	8.3	7.8	7.9	9.0	ND
Flow (m3/month)	—	9,707	3,158	25,011	20,665	227,911	92,650	36,158	70,927	49,740	89,692	74,261	ND
Rainbow Trout	Pass	1	1	1	1	2	1	1	1	1	1	1	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	1	2	1	1	1	1	1	1	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Black Fox Mine													
Operator Name	Brigus Gold Corporation													
Product(s)	Gold													
Address	2839 Highway 101 E, Matheson, Ontario P0K 1N0													
Effluent Discharge Point	Pike River Discharge Point													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.1152	0.1229	0.2783	0.2830	0.2055	0.2983	0.3246	0.3242	0.4290	0.3902	0.3678	0.3820	
Cu (mg/L)	0.3	0.0074	0.0059	0.0058	0.0173	0.0028	0.0025	0.0065	0.0039	0.0070	0.0019	0.0024	0.0032	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0006	0.0005	0.0005	0.0005	0.0005	0.0008	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	
Ni (mg/L)	0.5	0.0754	0.0760	0.1012	0.1203	0.0589	0.0499	0.0388	0.0381	0.0419	0.0475	0.0757	0.0947	
Zn (mg/L)	0.5	0.0351	0.0240	0.0257	0.0242	0.0194	0.0230	0.0152	0.0204	0.0149	0.0141	0.0162	0.0259	
TSS (mg/L)	15	0.60	0.46	2.88	3.88	2.25	2.25	2.50	1.50	1.50	1.50	3.13	1.88	
Ra-226 (Bq/L)	0.37	0.0025	NMR	NMR	0.0025	NMR	NMR	0.0025	NMR	0.0060	0.0025	NMR	NMR	
pH low	≥ 6.0	7.0	7.2	7.0	7.0	7.2	7.1	7.1	7.3	7.1	7.3	7.2	6.3	
pH high	≤ 9.5	7.7	7.4	7.9	7.3	7.3	7.8	7.8	7.7	7.7	7.6	7.8	7.2	
Flow (m3/month)	—	27,878	24,564	54,082	53,134	123,854	112,801	96,366	103,814	122,611	114,417	129,285	101,543	
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	-	1	1	1	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	1	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Black Fox Mine													
Operator Name	Brigus Gold Corporation													
Product(s)	Gold													
Address	2839 Highway 101 E, Matheson, Ontario P0K 1N0													
Effluent Discharge Point	Salve Creek Transitional Period Discharge Point													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Brunswick No. 12													
Operator Name	Xstrata Canada Corporation / Glencore Canada Corporation													
Product(s)	Lead-Zinc-Copper-Silver													
Address	Highway 430, Bathurst, New Brunswick E2A 3Z8													
Effluent Discharge Point	3333 Final Effluent													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0150	0.0150	0.0200	0.0200	
Cu (mg/L)	0.3	0.0238	0.0063	0.0050	0.0100	0.0075	0.0133	0.0125	0.0100	0.0100	0.0100	0.0100	0.0083	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0100	0.0150	0.0167	0.0150	0.0150	0.0100	0.0100	0.0150	0.0100	0.0100	0.0100	0.0100	
Ni (mg/L)	0.5	0.0150	0.0200	0.0117	0.0150	0.0088	0.0133	0.0125	0.0075	0.0167	0.0100	0.0200	0.0233	
Zn (mg/L)	0.5	0.2025	0.2400	0.2933	0.2675	0.1275	0.1467	0.1525	0.1700	0.2233	0.1400	0.1700	0.1533	
TSS (mg/L)	15	3.55	13.20	2.20	2.10	2.25	1.67	1.75	2.00	3.00	1.33	1.00	1.00	
Ra-226 (Bq/L)	0.37	NMR	0.0200	NMR	NMR	NMR	0.0050	NMR	NMR	0.1000	NMR	0.0050	NMR	
pH low	≥ 6.0	9.0	9.1	8.5	9.0	8.0	9.0	8.7	9.0	8.4	8.8	8.9	9.1	
pH high	≤ 9.5	9.3	9.3	9.3	9.2	9.1	9.1	9.0	9.0	9.0	9.0	8.9	9.4	
Flow (m3/month)	—	624,312	814,971	1,408,529	1,016,495	1,168,059	875,588	368,544	720,523	1,377,192	509,596	203,649	367,989	
Rainbow Trout	Pass	1	2	1	1	1	1	1	1	1	1	1	1	
Acute Lethality Test	Fail	2	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	3	2	1	1	1	-	1	1	1	1	1	1	
Monitoring Test	Fail	-	-	-	-	-	1	-	-	-	-	-	-	
Comments:	As of July 30, 2013, the ownership of Brunswick No. 12 was transferred from Xstrata Canada Corporation to Glencore Canada Corporation.													
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Bucko Lake Mine													
Operator Name	CaNickel Mining Ltd.													
Product(s)	Nickel													
Address	371 Flemming Drive, Wabowden, Manitoba R0B 1S0													
Effluent Discharge Point	Settling Pond Discharge													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0006	0.0003	0.0006	0.0005	0.0006	0.0011	0.0015	0.0016	0.0006	0.0004	0.0005	0.0004	
Cu (mg/L)	0.3	0.0016	0.0013	0.0022	0.0015	0.0018	0.0018	0.0014	0.0021	0.0017	0.0032	0.0019	0.0020	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0001	0.0001	0.0001	0.0001	0.0001	0.0005	0.0001	0.0001	0.0001	0.0001	0.0001	0.0003	
Ni (mg/L)	0.5	0.0670	0.0560	0.0590	0.0601	0.0751	0.0590	0.0409	0.0628	0.0677	0.1088	0.0643	0.0870	
Zn (mg/L)	0.5	0.0061	0.0026	0.0040	0.0048	0.0037	0.0259	0.0037	0.0064	0.0082	0.0076	0.0061	0.0066	
TSS (mg/L)	15	9.83	7.55	7.87	7.24	8.80	6.45	7.60	5.93	7.42	8.05	5.38	5.82	
Ra-226 (Bq/L)	0.37	0.1750	0.1400	0.1400	0.1500	0.6000	0.2525	0.2000	0.2650	0.2840	0.2275	0.1150	0.1540	
pH low	≥ 6.0	7.5	7.2	7.4	7.5	7.5	7.8	7.8	7.6	7.4	7.6	7.5	7.5	
pH high	≤ 9.5	7.5	7.5	7.6	7.6	8.0	7.9	7.9	7.7	7.7	8.0	7.6	7.6	
Flow (m3/month)	—	19,102	17,896	16,949	17,543	29,915	40,264	46,453	15,645	15,594	21,323	10,457	8,465	
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	-	-	-	-	1	1	1	-	-	-	-	-	
Monitoring Test	Fail	1	1	1	1	-	-	-	1	1	1	1	1	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Camflo (Mill)												
Operator Name		Mines Richmond Inc.												
Product(s)		Gold												
Address		100 Road 117, P.O. Box 640, Malartic, Quebec J0Y 1Z0												
Effluent Discharge Point		Final Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0008	0.0013	0.0009	0.0011	0.0007	0.0021	0.0014	0.0014	0.0005	0.0003	0.0008	0.0004	
Cu (mg/L)	0.3	0.0028	0.0044	0.0017	0.0166	0.0081	0.0046	0.0074	0.0041	0.0061	0.0059	0.0305	0.0048	
CN (mg/L)	1.0	0.0673	0.0930	0.0695	0.0590	0.0198	0.0396	0.0542	0.0993	0.0826	0.0338	0.0550	0.1348	
Pb (mg/L)	0.2	0.0004	0.0006	0.0011	0.0005	0.0033	0.0067	0.0007	0.0002	0.0010	0.0003	0.0015	0.0002	
Ni (mg/L)	0.5	0.0129	0.0113	0.0121	0.0068	0.0104	0.0124	0.0105	0.0122	0.0070	0.0072	0.0130	0.0142	
Zn (mg/L)	0.5	0.0082	0.0074	0.0075	0.0142	0.0037	0.0025	0.0059	0.0086	0.0025	0.0068	0.0044	0.0044	
TSS (mg/L)	15	2.20	2.25	1.00	4.20	6.20	5.75	5.40	3.25	3.20	3.00	4.88	2.60	
Ra-226 (Bq/L)	0.37	0.0030	NMR	NMR	NMR	0.0020	NMR	0.0010	NMR	NMR	0.0010	NMR	NMR	
pH low	≥ 6.0	7.3	7.2	7.2	7.3	7.3	6.7	7.1	7.6	7.0	7.1	7.4	7.1	
pH high	≤ 9.5	7.6	7.5	7.5	7.4	7.5	7.5	7.7	7.9	7.8	7.5	7.5	7.6	
Flow (m3/month)	—	15,088	8,669	16,963	96,941	220,254	32,184	45,622	16,182	48,557	86,267	90,396	9,598	
Rainbow Trout	Pass	1	NMR	NMR	NMR	-	1	1	NMR	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	1	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	NMR	NMR	NMR	1	1	1	NMR	NMR	1	NMR	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Campbell Mine													
Operator Name	Goldcorp Canada Ltd.													
Product(s)	Gold													
Address	10 Mine Road, Balmertown, Ontario P0V 1C0													
Effluent Discharge Point	WETOUT													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	0.0240	0.0189	0.0243	0.0417	0.0422	0.0336	0.0212	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	0.0037	0.0045	0.0042	0.0023	0.0025	0.0033	0.0034	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	0.0023	0.0085	0.0053	0.0061	0.0049	0.0042	0.0042	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	0.0077	0.0364	0.0382	0.0360	0.0383	0.0362	0.0535	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	0.0045	0.0050	0.0043	0.0050	0.0047	0.0044	0.0025	ND	ND	
TSS (mg/L)	15	ND	ND	ND	2.75	2.50	5.79	5.27	5.58	5.45	6.52	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	0.0075	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	ND	ND	
pH low	≥ 6.0	ND	ND	ND	7.0	7.1	7.1	6.5	6.4	6.1	6.1	ND	ND	
pH high	≤ 9.5	ND	ND	ND	7.5	7.7	7.7	7.3	6.8	6.8	7.4	ND	ND	
Flow (m3/month)	—	ND	ND	ND	15,361	30,060	223,171	292,375	207,058	271,114	113,879	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	1	1	1	3	1	1	1	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	1	1	1	3	1	1	1	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Canadian Malartic Mine												
Operator Name	Corporation minière Osisko												
Product(s)	Gold												
Address	100 Mourier Lake Road, Malartic, Quebec J0Y 1Z0												
Effluent Discharge Point	Final Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0010	0.0003	ND	ND	ND	ND	0.0003	0.0007	0.0003	0.0008	0.0004	0.0005
Cu (mg/L)	0.3	0.0676	0.0440	ND	ND	ND	ND	0.0439	0.0818	0.0615	0.0595	0.1339	0.0492
CN (mg/L)	1.0	0.5780	2.2500	ND	ND	ND	ND	0.0447	0.0468	0.0400	0.1130	0.3120	0.1958
Pb (mg/L)	0.2	0.0005	0.0002	ND	ND	ND	ND	0.0117	0.0002	0.0019	0.0002	0.0018	0.0003
Ni (mg/L)	0.5	0.0148	0.0188	ND	ND	ND	ND	0.0089	0.0118	0.0101	0.0104	0.0228	0.0451
Zn (mg/L)	0.5	0.0208	0.0028	ND	ND	ND	ND	0.0063	0.0063	0.0318	0.0041	0.0043	0.0053
TSS (mg/L)	15	1.58	4.50	ND	ND	ND	ND	1.83	3.25	2.67	1.75	4.50	3.38
Ra-226 (Bq/L)	0.37	0.0050	NMR	ND	ND	ND	ND	0.0020	NMR	NMR	0.0040	NMR	NMR
pH low	≥ 6.0	6.7	7.2	ND	ND	ND	ND	7.6	7.7	7.6	7.7	7.7	7.4
pH high	≤ 9.5	7.4	7.4	ND	ND	ND	ND	8.3	7.8	7.7	7.8	7.7	7.7
Flow (m3/month)	—	424,187	184,164	ND	ND	ND	ND	270,062	940,199	268,112	793,769	330,142	152,850
Rainbow Trout	Pass	1	1	ND	ND	ND	ND	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Daphnia magna	Pass	1	1	ND	ND	ND	ND	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Cantung Mine													
Operator Name	North American Tungsten Corporation Ltd.													
Product(s)	Tungsten													
Address	P.O. Box 848, Watson Lake, Yukon Y0A 1C0													
Effluent Discharge Point	4-27-2 Culvert													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0005	0.0004	0.0007	0.0006	0.0009	0.0006	0.0013	0.0014	0.0008	0.0006	0.0007	0.0006	
Cu (mg/L)	0.3	0.0003	0.0004	0.0007	0.0005	0.0027	0.0018	0.0010	0.0010	0.0013	0.0009	0.0008	0.0004	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0000	0.0000	0.0000	0.0000	0.0002	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	
Ni (mg/L)	0.5	0.0006	0.0006	0.0013	0.0006	0.0039	0.0011	0.0006	0.0004	0.0007	0.0007	0.0006	0.0006	
Zn (mg/L)	0.5	0.0018	0.0063	0.0060	0.0042	0.0335	0.0095	0.0025	0.0018	0.0026	0.0030	0.0028	0.0024	
TSS (mg/L)	15	0.50	0.50	1.75	0.50	4.13	2.00	3.00	1.13	2.40	1.38	1.75	1.10	
Ra-226 (Bq/L)	0.37	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR	
pH low	≥ 6.0	7.9	7.8	7.9	7.8	7.8	7.9	7.8	7.7	7.7	7.7	7.6	7.4	
pH high	≤ 9.5	8.1	8.0	8.0	8.0	7.9	8.0	8.0	7.8	7.8	7.8	7.8	7.8	
Flow (m3/month)	—	65,596	54,758	30,935	106,331	262,465	246,777	211,391	275,946	325,407	214,686	187,492	184,100	
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	-	1	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	1	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Cantung Mine													
Operator Name	North American Tungsten Corporation Ltd.													
Product(s)	Tungsten													
Address	P.O. Box 848, Watson Lake, Yukon Y0A 1C0													
Effluent Discharge Point	Polishing Pond Four and Bore Hole 4-28-1 (formerly Polishing Pond Four)													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0006	0.0005	0.0008	0.0007	0.0005	0.0004	0.0005	0.0004	0.0006	0.0006	0.0007	0.0005	
Cu (mg/L)	0.3	0.0003	0.0007	0.0006	0.0003	0.0008	0.0004	0.0007	0.0003	0.0007	0.0003	0.0003	0.0004	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0000	0.0001	0.0001	0.0000	0.0000	0.0002	0.0000	0.0000	0.0002	0.0000	0.0000	0.0000	
Ni (mg/L)	0.5	0.0059	0.0064	0.0063	0.0075	0.0079	0.0084	0.0062	0.0079	0.0076	0.0076	0.0093	0.0076	
Zn (mg/L)	0.5	0.0083	0.0133	0.0105	0.0086	0.0103	0.0078	0.0064	0.0060	0.0068	0.0060	0.0130	0.0068	
TSS (mg/L)	15	0.50	0.63	1.63	0.50	2.50	0.75	0.90	0.63	1.10	0.63	1.75	0.90	
Ra-226 (Bq/L)	0.37	0.0100	NMR	NMR	0.0100	NMR	NMR	0.0050	NMR	NMR	0.0100	NMR	NMR	
pH low	≥ 6.0	7.9	7.8	8.0	7.8	7.7	7.9	7.8	7.8	7.7	7.8	7.9	7.7	
pH high	≤ 9.5	8.0	8.0	8.0	8.1	7.9	8.0	7.9	7.9	7.9	7.9	7.9	7.9	
Flow (m3/month)	—	99,797	90,901	108,254	98,060	93,804	116,539	76,110	96,888	40,744	23,309	46,652	65,235	
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	This final discharge point has been renamed as “Polishing Pond Four and Bore Hole 4-28-1”.													
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Cantung Mine													
Operator Name	North American Tungsten Corporation Ltd.													
Product(s)	Tungsten													
Address	P.O. Box 848, Watson Lake, Yukon Y0A 1C0													
Effluent Discharge Point	Settling Pond 5-2													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	0.0005	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	0.0138	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	NMR	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	0.0007	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	0.0012	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	0.0120	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	15.00	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	0.0050	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	7.9	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	7.9	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	3,230	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Caribou Mine – Mill												
Operator Name		Trevali Mining (New Brunswick) Ltd												
Product(s)		Zinc-Lead-Silver-Copper-Gold												
Address		9361 Route 180, Bathurst, New Brunswick E2A 3Z1												
Effluent Discharge Point		Polishing Pond Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0020	0.0020	0.0020	0.0023	0.0015	0.0023	0.0030	0.0023	0.0020	0.0020	0.0025	0.0020	
Cu (mg/L)	0.3	0.0042	0.0063	0.0058	0.0055	0.0056	0.0053	0.0046	0.0053	0.0052	0.0056	0.0060	0.0060	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0035	0.0043	0.0042	0.0045	0.0047	0.0030	0.0075	0.0033	0.0036	0.0038	0.0121	0.0132	
Ni (mg/L)	0.5	0.0007	0.0005	0.0005	0.0005	0.0005	0.0016	0.0007	0.0005	0.0005	0.0005	0.0005	0.0005	
Zn (mg/L)	0.5	0.2726	0.3955	0.4840	0.4258	0.3094	0.2503	0.1278	0.1408	0.1708	0.1736	0.2415	0.3000	
TSS (mg/L)	15	1.20	1.25	1.00	1.75	2.80	1.00	1.60	1.25	2.25	2.80	1.25	1.00	
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0050	NMR	NMR	0.0060	-	-	-	-	-	-	
pH low	≥ 6.0	6.8	7.1	7.3	7.1	7.1	6.6	6.3	6.6	6.6	7.3	7.1	7.2	
pH high	≤ 9.5	7.4	7.5	7.5	7.7	7.3	7.5	7.2	7.0	7.3	7.5	7.4	7.5	
Flow (m3/month)	—	143,683	77,760	210,716	181,050	670,541	282,025	84,958	290,408	301,269	327,495	156,793	235,517	
Rainbow Trout	Pass	1	1	1	1	1	1	NMR	2	1	1	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	NMR	2	1	1	1	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:		No radium 226 results were provided for the third and fourth quarters.												
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
		Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.												
		A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Casa Berardi (Mine)													
Operator Name	Mines Aurizon Inc. / Hecla Québec Incorporé													
Product(s)	Gold													
Address	659 2nd Street East, La Sarre, Quebec J9Z 2Y9													
Effluent Discharge Point	Final Effluent – Point A													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	0.1033	0.0718	ND	ND	0.1337	0.1166	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	0.0266	0.0110	ND	ND	0.0127	0.0126	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	0.0110	0.0133	ND	ND	0.0075	0.0120	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	0.0002	0.0006	ND	ND	0.0014	0.0002	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	0.0132	0.0062	ND	ND	0.0168	0.0211	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	0.0030	0.0062	ND	ND	0.0123	0.0050	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	4.00	4.00	ND	ND	4.50	8.00	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	0.0010	0.0020	ND	ND	0.0040	0.0040	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	7.9	7.9	ND	ND	7.0	7.6	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	7.9	8.0	ND	ND	7.9	7.7	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	162,453	768,999	ND	ND	407,450	261,584	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	1	1	ND	ND	2	1	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	1	1	ND	ND	2	1	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	As of June 1 2013, the ownership of Casa Berardi (Mine) was transferred from Mines Aurizon Inc. to Hecla Québec Incorporé following a corporate merger between the two companies.													
Notes:	ND: No Deposit	NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
	Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
	A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Chisel North Mine											
Operator Name		Hudson Bay Mining and Smelting Co. Ltd. - Hudbay Minerals Inc.											
Product(s)		Zinc											
Address		P.O. Box 130, Snow Lake, Manitoba R0B 1M0											
Effluent Discharge Point		Chisel North Mine Discharge											
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	ND	ND	0.0005	0.0005
Cu (mg/L)	0.3	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	ND	ND	0.0040	0.0040
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	ND	ND	NMR	NMR
Pb (mg/L)	0.2	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	ND	ND	0.0100	0.0100
Ni (mg/L)	0.5	0.0170	0.0130	0.0106	0.0124	0.0086	0.0069	0.0092	0.0080	ND	ND	0.0165	0.0193
Zn (mg/L)	0.5	0.2860	0.3897	0.3026	0.1526	0.1175	0.1033	0.1244	0.0920	ND	ND	0.2225	0.3448
TSS (mg/L)	15	1.23	2.05	2.44	2.49	2.14	3.80	2.30	5.00	ND	ND	3.85	4.78
Ra-226 (Bq/L)	0.37	0.0350	0.0800	0.1200	0.0640	0.0575	0.0325	0.0660	0.1200	ND	ND	0.0700	0.0675
pH low	≥ 6.0	8.5	8.6	7.6	8.7	8.2	7.3	8.1	7.1	ND	ND	8.4	6.3
pH high	≤ 9.5	8.7	9.1	9.1	9.3	8.9	8.9	9.0	7.1	ND	ND	8.5	9.0
Flow (m3/month)	—	56,771	175,794	178,770	105,260	90,354	107,320	149,038	46,090	ND	ND	77,508	135,630
Rainbow Trout	Pass	NMR	NMR	1	NMR	1	NMR	1	NMR	ND	ND	1	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	1	NMR	1	NMR	ND	ND	1	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:		As of 2012, the company name changed from Hudson Bay Mining and Smelting Co. Ltd. to Hudbay Minerals Inc.											
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality			
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Cigar Lake Project													
Operator Name	Cameco Corporation													
Product(s)	Uranium													
Address	2121-11th Street West, Saskatoon, Saskatchewan S7M 1J3													
Effluent Discharge Point	Station 2.2													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0006	0.0006	0.0007	0.0006	0.0005	0.0008	0.0007	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	0.0030	0.0035	0.0042	0.0055	0.0060	0.0106	0.0037	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	0.0001	0.0001	0.0003	0.0001	0.0001	0.0001	0.0001	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	0.0033	0.0042	0.0041	0.0042	0.0048	0.0047	0.0034	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	0.0084	0.0099	0.0086	0.0063	0.0078	0.0078	0.0085	ND	ND	ND	ND	ND	
TSS (mg/L)	15	1.10	0.63	1.00	1.13	1.10	1.88	0.67	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	0.0025	0.0050	0.0034	0.0025	0.0064	0.0025	0.0025	ND	ND	ND	ND	ND	
pH low	≥ 6.0	7.2	7.1	7.2	7.2	6.9	6.7	6.8	ND	ND	ND	ND	ND	
pH high	≤ 9.5	7.4	7.5	7.3	7.4	7.6	7.4	7.5	ND	ND	ND	ND	ND	
Flow (m3/month)	—	25,981	21,837	27,818	34,124	46,715	35,875	25,565	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	1	NMR	NMR	NMR	1	NMR	1	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	NMR	NMR	NMR	1	NMR	1	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	1	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Cigar Lake Project													
Operator Name	Cameco Corporation													
Product(s)	Uranium													
Address	2121-11th Street West, Saskatoon, Saskatchewan S7M 1J3													
Effluent Discharge Point	Station 2.2B													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	-	-	-	-	-	-	-	0.0005	0.0006	0.0005	0.0008	0.0009	
Cu (mg/L)	0.3	-	-	-	-	-	-	-	0.0011	0.0009	0.0011	0.0013	0.0009	
CN (mg/L)	1.0	-	-	-	-	-	-	-	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	-	-	-	-	-	-	-	0.0001	0.0001	0.0001	0.0001	0.0001	
Ni (mg/L)	0.5	-	-	-	-	-	-	-	0.0022	0.0018	0.0014	0.0015	0.0028	
Zn (mg/L)	0.5	-	-	-	-	-	-	-	0.0069	0.0103	0.0124	0.0089	0.0086	
TSS (mg/L)	15	-	-	-	-	-	-	-	1.18	1.79	0.72	1.00	0.90	
Ra-226 (Bq/L)	0.37	-	-	-	-	-	-	-	0.0033	0.0044	0.0071	0.0075	0.0070	
pH low	≥ 6.0	-	-	-	-	-	-	-	6.8	6.9	6.9	6.9	6.7	
pH high	≤ 9.5	-	-	-	-	-	-	-	7.4	7.4	7.3	7.1	7.2	
Flow (m3/month)	—	-	-	-	-	-	-	-	36,156	23,462	31,419	20,979	16,717	
Rainbow Trout	Pass	-	-	-	-	-	-	-	1	NMR	2	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	-	1	NMR	2	NMR	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	This final discharge point became subject to the MMER in August 2013. This final discharge point is already in reduced frequency since the effluent discharged is the same effluent as was being discharged through “Station 2.2”; this is still water treatment plant effluent and only the physical location of the final discharge point has changed.													
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Clavos Mine											
Operator Name		Sage Gold Inc.											
Product(s)		Gold											
Address		Finn Road, German Township, Ontario P0K 1N0											
Effluent Discharge Point		Clavos Mine Drainage Area											
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Cu (mg/L)	0.3	-	-	-	-	-	-	-	-	-	-	-	-
CN (mg/L)	1.0	-	-	-	-	-	-	-	-	-	-	-	-
Pb (mg/L)	0.2	-	-	-	-	-	-	-	-	-	-	-	-
Ni (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Zn (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
TSS (mg/L)	15	-	-	-	-	-	-	-	-	-	-	-	-
Ra-226 (Bq/L)	0.37	-	-	-	-	-	-	-	-	-	-	-	-
pH low	≥ 6.0	-	-	-	-	-	-	-	-	-	-	-	-
pH high	≤ 9.5	-	-	-	-	-	-	-	-	-	-	-	-
Flow (m3/month)	—	-	-	-	-	-	-	-	-	-	-	-	-
Rainbow Trout	Pass	-	-	-	-	-	-	-	-	-	-	-	-
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	-	-	-	-	-	-
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:		No effluent data were reported in 2013.											
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality			
		Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.											
		A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.											

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Clavos Mine												
Operator Name	Sage Gold Inc.												
Product(s)	Gold												
Address	Finn Road, German Township, Ontario P0K 1N0												
Effluent Discharge Point	Sediment Pond												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Cu (mg/L)	0.3	-	-	-	-	-	-	-	-	-	-	-	-
CN (mg/L)	1.0	-	-	-	-	-	-	-	-	-	-	-	-
Pb (mg/L)	0.2	-	-	-	-	-	-	-	-	-	-	-	-
Ni (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Zn (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
TSS (mg/L)	15	-	-	-	-	-	-	-	-	-	-	-	-
Ra-226 (Bq/L)	0.37	-	-	-	-	-	-	-	-	-	-	-	-
pH low	≥ 6.0	-	-	-	-	-	-	-	-	-	-	-	-
pH high	≤ 9.5	-	-	-	-	-	-	-	-	-	-	-	-
Flow (m3/month)	—	-	-	-	-	-	-	-	-	-	-	-	-
Rainbow Trout	Pass	-	-	-	-	-	-	-	-	-	-	-	-
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	-	-	-	-	-	-
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No effluent data were reported in 2013.												
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Complexe métallurgique Sorel-Tracy													
Operator Name	QIT-Fer et Titane Inc.													
Product(s)	Iron-Titanium													
Address	1625 Marie-Victorin Road, Sorel-Tracy, Quebec J3R 1M6													
Effluent Discharge Point	Final Effluent QIT (Point 1.4)													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0030	0.0025	0.0029	0.0022	0.0027	0.0035	0.0028	0.0033	0.0029	0.0054	0.0047	0.0032	
Cu (mg/L)	0.3	0.0139	0.0096	0.0096	0.0120	0.0111	0.0069	0.0055	0.0067	0.0050	0.0044	0.0063	0.0068	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0195	0.0133	0.0098	0.0055	0.0068	0.0152	0.0067	0.0072	0.0173	0.0372	0.0159	0.0160	
Ni (mg/L)	0.5	0.0296	0.0325	0.0313	0.0342	0.0363	0.0147	0.0154	0.0134	0.0102	0.0075	0.0142	0.0203	
Zn (mg/L)	0.5	0.1594	0.1613	0.1295	0.0762	0.0753	0.0930	0.0586	0.0420	0.1340	0.4244	0.2440	0.3153	
TSS (mg/L)	15	27.78	22.25	12.45	9.48	12.38	14.75	7.78	5.05	8.98	14.28	13.85	11.14	
Ra-226 (Bq/L)	0.37	0.0010	0.0010	0.0010	0.0010	0.0013	0.0020	0.0016	0.0030	0.0013	0.0050	0.0014	0.0019	
pH low	≥ 6.0	7.0	7.4	7.3	7.7	7.8	7.7	7.9	8.0	7.8	7.2	7.4	7.5	
pH high	≤ 9.5	7.6	7.6	8.1	8.0	7.9	8.5	8.1	8.2	8.1	7.8	8.1	8.0	
Flow (m3/month)	—	3,658,802	3,505,974	3,411,971	3,942,039	5,135,167	4,390,566	5,030,184	5,437,354	4,946,843	3,627,703	3,031,068	2,043,079	
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Complexe métallurgique Sorel-Tracy												
Operator Name		QIT-Fer et Titane Inc.												
Product(s)		Iron-Titanium												
Address		1625 Marie-Victorin Road, Sorel-Tracy, Quebec J3R 1M6												
Effluent Discharge Point		EFF2.2-P84												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0010	0.0024	0.0028	0.0024	0.0021	0.0025	0.0025	0.0023	0.0022	0.0025	0.0021	0.0019	
Cu (mg/L)	0.3	0.0068	0.0130	0.0230	0.0190	0.0149	0.0260	0.0230	0.0235	0.0315	0.0224	0.0235	0.0175	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0013	0.0020	0.0047	0.0024	0.0027	0.0069	0.0063	0.0052	0.0063	0.0081	0.0123	0.0074	
Ni (mg/L)	0.5	0.0140	0.0140	0.0213	0.0180	0.0145	0.0243	0.0188	0.0178	0.0213	0.0212	0.0258	0.0208	
Zn (mg/L)	0.5	0.0246	0.0153	0.0308	0.0224	0.0168	0.0360	0.0314	0.0398	0.0320	0.0330	0.0553	0.0500	
TSS (mg/L)	15	2.18	6.58	17.53	6.80	8.00	10.10	7.32	7.90	3.80	1.40	5.43	5.30	
Ra-226 (Bq/L)	0.37	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0012	0.0018	0.0018	0.0028	0.0010	0.0010	
pH low	≥ 6.0	7.0	8.6	9.0	8.2	8.0	7.4	7.6	7.3	7.6	7.7	7.6	7.3	
pH high	≤ 9.5	7.9	9.1	9.3	9.1	8.3	7.9	7.8	8.0	7.8	8.0	7.9	7.6	
Flow (m3/month)	—	2,662	3,076	9,932	16,746	13,804	52,413	9,491	7,802	18,474	14,843	18,030	10,269	
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Con Mine												
Operator Name		Miramar Northern Mining Ltd.												
Product(s)		Gold												
Address		75 Con Road, Yellowknife, Northwest Territories X1A 2M1												
Effluent Discharge Point		Surveillance Network Program Station 40-1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Copper Cliff Complex											
Operator Name		Vale Canada Ltd.											
Product(s)		Nickel-Copper-Cobalt-Platinum											
Address		155 Balsam Street, Copper Cliff, Ontario P0M 1N0											
Effluent Discharge Point		Copper Cliff Wastewater Treatment Plant											
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0024	0.0018	0.0015	0.0010	0.0012	0.0010	0.0016	0.0025	0.0020	ND	0.0028	0.0010
Cu (mg/L)	0.3	0.2580	0.2880	0.2793	0.2315	0.1674	0.2960	0.1248	0.0875	0.0387	ND	0.0585	0.0372
CN (mg/L)	1.0	0.0025	0.0044	0.0113	0.0023	0.0018	0.0015	0.0023	0.0010	0.0037	ND	0.0059	0.0060
Pb (mg/L)	0.2	0.0310	0.0310	0.0310	0.0310	0.0310	0.0310	0.0310	0.0310	0.0310	ND	0.0080	0.0080
Ni (mg/L)	0.5	0.2166	0.2183	0.1258	0.0815	0.0332	0.0750	0.0702	0.0195	0.0560	ND	0.1393	0.1190
Zn (mg/L)	0.5	0.0050	0.0050	0.0050	0.0050	0.0050	0.0043	0.0050	0.0215	0.0050	ND	0.0025	0.0034
TSS (mg/L)	15	2.96	2.60	2.05	1.75	1.88	1.30	2.00	1.50	1.40	ND	1.96	1.90
Ra-226 (Bq/L)	0.37	0.0080	NMR	NMR	0.0060	NMR	NMR	0.0110	NMR	NMR	ND	0.0025	NMR
pH low	≥ 6.0	7.0	6.9	7.6	8.6	7.2	8.5	8.1	8.6	8.2	ND	5.9	5.8
pH high	≤ 9.5	8.5	8.8	8.5	9.1	9.1	8.7	8.8	9.0	8.3	ND	8.5	8.8
Flow (m3/month)	—	3,248,490	3,200,540	4,353,578	4,890,270	5,117,666	5,012,010	3,817,247	1,955,775	1,740,960	ND	2,576,381	4,072,594
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	ND	1	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	ND	1	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Copper Cliff Complex													
Operator Name	Vale Canada Ltd.													
Product(s)	Nickel-Copper-Cobalt-Platinum													
Address	155 Balsam Street, Copper Cliff, Ontario P0M 1N0													
Effluent Discharge Point	Nolin Creek Spillway													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Copper Cliff Complex												
Operator Name		Vale Canada Ltd.												
Product(s)		Nickel-Copper-Cobalt-Platinum												
Address		155 Balsam Street, Copper Cliff, Ontario P0M 1N0												
Effluent Discharge Point		Nolin Creek Wastewater Treatment Plant												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	ND	0.0010	0.0010	
Cu (mg/L)	0.3	0.0790	0.0668	0.1075	0.1150	0.0620	0.0518	0.0352	0.0343	0.0345	ND	0.0758	0.0726	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	ND	NMR	NMR	
Pb (mg/L)	0.2	0.0080	0.0150	0.0138	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	ND	0.0080	0.0080	
Ni (mg/L)	0.5	0.3064	0.2925	0.2890	0.4395	0.2378	0.1993	0.1372	0.1993	0.2058	ND	0.3104	0.3474	
Zn (mg/L)	0.5	0.0056	0.0046	0.0045	0.0056	0.0041	0.0025	0.0025	0.0025	0.0039	ND	0.0057	0.0059	
TSS (mg/L)	15	3.16	2.10	2.00	3.75	3.12	2.75	8.72	5.10	1.65	ND	2.60	2.92	
Ra-226 (Bq/L)	0.37	0.0090	NMR	NMR	0.0025	NMR	NMR	0.0100	NMR	NMR	ND	0.0090	NMR	
pH low	≥ 6.0	8.1	8.3	8.2	8.1	8.7	8.1	8.5	8.5	8.3	ND	8.1	7.1	
pH high	≤ 9.5	8.4	8.9	8.7	8.8	8.9	8.7	8.8	8.9	8.6	ND	8.5	8.8	
Flow (m3/month)	—	389,453	511,028	670,189	757,560	777,635	643,530	676,792	734,762	504,775	ND	539,250	434,310	
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	ND	1	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	ND	1	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Copper Mountain Mine													
Operator Name	Similco Mines Ltd. - Copper Mountain Mine (BC) Ltd.													
Product(s)	Copper-Gold-Silver													
Address	20 km south of Highway #3, near Princeton, British Columbia V0X 1W0													
Effluent Discharge Point	Co.SW07 - W. Dam Seepage													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0010	0.0009	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0012	0.0010	0.0010	
Cu (mg/L)	0.3	0.0025	0.0027	0.0022	0.0028	0.0039	0.0028	0.0030	0.0027	0.0030	0.0015	0.0030	0.0034	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Ni (mg/L)	0.5	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0000	0.0000	0.0000	
Zn (mg/L)	0.5	0.0015	0.0015	0.0015	0.0033	0.0032	0.0035	0.0015	0.0031	0.0015	0.0015	0.0015	0.0015	
TSS (mg/L)	15	0.50	0.50	0.50	0.64	1.05	3.43	2.24	0.70	0.85	1.56	0.50	1.80	
Ra-226 (Bq/L)	0.37	NMR	0.0057	NMR	NMR	0.0036	NMR	NMR	0.0028	NMR	NMR	0.0041	NMR	
pH low	≥ 6.0	7.7	7.6	7.8	7.4	7.6	7.9	7.8	7.8	7.9	7.7	8.0	7.8	
pH high	≤ 9.5	8.0	8.0	8.2	7.9	8.0	8.1	8.1	8.0	8.0	8.2	8.1	8.0	
Flow (m3/month)	—	93,744	84,672	93,744	69,312	32,527	31,502	31,806	33,596	26,558	33,685	44,138	32,798	
Rainbow Trout	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	As of July 1, 2012, the company name changed from Similco Mines Ltd. to Copper Mountain Mine (BC) Ltd.													
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Copper Mountain Mine												
Operator Name		Similco Mines Ltd. - Copper Mountain Mine (BC) Ltd.												
Product(s)		Copper-Gold-Silver												
Address		20 km south of Highway #3, near Princeton, British Columbia V0X 1W0												
Effluent Discharge Point		Co.SW09 - Level 6 Adit												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0020	0.0020	0.0019	0.0019	0.0019	0.0018	0.0016	0.0014	0.0017	0.0018	0.0018	0.0025	
Cu (mg/L)	0.3	0.0184	0.0184	0.0184	0.0202	0.0196	0.0187	0.0201	0.0233	0.0208	0.0221	0.0198	0.0224	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000	
Ni (mg/L)	0.5	0.0005	0.0008	0.0008	0.0010	0.0011	0.0010	0.0013	0.0017	0.0013	0.0014	0.0013	0.0018	
Zn (mg/L)	0.5	0.0030	0.0030	0.0032	0.0036	0.0035	0.0032	0.0042	0.0059	0.0046	0.0056	0.0054	0.0049	
TSS (mg/L)	15	0.50	0.50	0.50	0.62	0.50	0.63	0.62	1.15	2.85	1.14	0.50	0.50	
Ra-226 (Bq/L)	0.37	NMR	0.0054	NMR	NMR	0.0029	NMR	NMR	0.0047	NMR	NMR	0.0034	NMR	
pH low	≥ 6.0	8.0	8.0	8.0	8.1	8.0	8.0	7.9	7.9	8.0	7.8	8.1	8.0	
pH high	≤ 9.5	8.1	8.1	8.2	8.2	8.4	8.2	8.1	8.1	8.1	8.2	8.2	8.2	
Flow (m3/month)	—	15,619	14,527	26,117	36,783	42,256	44,282	43,386	27,913	38,359	35,690	42,358	42,475	
Rainbow Trout	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	As of July 1, 2012, the company name changed from Similco Mines Ltd. to Copper Mountain Mine (BC) Ltd.													
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Copper Mountain Mine													
Operator Name	Similco Mines Ltd. - Copper Mountain Mine (BC) Ltd.													
Product(s)	Copper-Gold-Silver													
Address	20 km south of Highway #3, near Princeton, British Columbia V0X 1W0													
Effluent Discharge Point	Co.SW21 - D4 Dump Drainage													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0011	0.0011	0.0012	0.0011	0.0013	0.0013	0.0011	0.0013	0.0017	0.0019	0.0018	0.0018	
Cu (mg/L)	0.3	0.0067	0.0061	0.0062	0.0072	0.0073	0.0068	0.0085	0.0092	0.0113	0.0210	0.0218	0.0216	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	
Ni (mg/L)	0.5	0.0010	0.0010	0.0009	0.0011	0.0011	0.0010	0.0010	0.0011	0.0010	0.0013	0.0015	0.0012	
Zn (mg/L)	0.5	0.0030	0.0015	0.0015	0.0015	0.0015	0.0015	0.0030	0.0030	0.0030	0.0015	0.0015	0.0030	
TSS (mg/L)	15	0.68	0.50	0.90	1.34	1.33	9.23	3.32	2.83	9.53	13.54	8.60	7.22	
Ra-226 (Bq/L)	0.37	NMR	0.0078	NMR	NMR	0.0009	NMR	NMR	0.0013	NMR	NMR	0.0029	NMR	
pH low	≥ 6.0	8.1	8.1	8.1	8.1	8.2	8.2	8.2	8.1	8.2	8.1	8.3	8.2	
pH high	≤ 9.5	8.2	8.2	8.4	8.4	8.3	8.3	8.2	8.3	8.3	8.3	8.3	8.3	
Flow (m3/month)	—	1,539	1,554	1,496	2,316	2,819	3,464	3,816	3,298	3,393	3,472	3,068	2,288	
Rainbow Trout	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	As of July 1, 2012, the company name changed from Similco Mines Ltd. to Copper Mountain Mine (BC) Ltd.													
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Copper Mountain Mine												
Operator Name		Similco Mines Ltd. - Copper Mountain Mine (BC) Ltd.												
Product(s)		Copper-Gold-Silver												
Address		20 km south of Highway #3, near Princeton, British Columbia V0X 1W0												
Effluent Discharge Point		Co.SW27 - E Dam Seepage												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	0.0008	0.0010	0.0009	0.0009	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	0.0011	0.0008	0.0012	0.0016	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	0.0000	0.0000	0.0000	0.0004	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	0.0003	0.0003	0.0003	0.0003	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	0.0015	0.0015	0.0015	0.0015	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	0.50	1.18	0.50	0.50	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	-	NMR	0.0023	NMR	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	8.1	7.9	7.9	8.0	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	8.1	8.2	8.2	8.1	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	5,401	8,225	7,711	10,614	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	-	-	1	-	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	-	-	1	-	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	As of July 1, 2012, the company name changed from Similco Mines Ltd. to Copper Mountain Mine (BC) Ltd. No radium 226 test results were provided for the third quarter. No toxicity test results were provided for September, October and December.													
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Copper Mountain Mine													
Operator Name	Similco Mines Ltd. - Copper Mountain Mine (BC) Ltd.													
Product(s)	Copper-Gold-Silver													
Address	20 km south of Highway #3, near Princeton, British Columbia V0X 1W0													
Effluent Discharge Point	Co.SW36 - Lost Horse Gulch Drainage													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0008	0.0008	0.0008	0.0007	0.0007	0.0009	0.0008	0.0008	0.0008	0.0009	0.0009	0.0008	
Cu (mg/L)	0.3	0.0123	0.0115	0.0141	0.0135	0.0143	0.0139	0.0157	0.0152	0.0149	0.0148	0.0132	0.0128	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	
Ni (mg/L)	0.5	0.0012	0.0011	0.0011	0.0010	0.0011	0.0011	0.0011	0.0012	0.0011	0.0011	0.0013	0.0011	
Zn (mg/L)	0.5	0.0030	0.0030	0.0015	0.0015	0.0032	0.0015	0.0015	0.0015	0.0030	0.0015	0.0015	0.0030	
TSS (mg/L)	15	0.76	0.63	1.23	1.02	1.55	1.18	1.54	1.30	0.98	1.44	0.50	0.50	
Ra-226 (Bq/L)	0.37	NMR	0.0031	NMR	NMR	0.0032	NMR	NMR	0.0022	NMR	NMR	0.0058	NMR	
pH low	≥ 6.0	8.1	8.1	8.1	8.1	8.1	8.2	8.1	8.0	8.0	8.2	8.2	8.1	
pH high	≤ 9.5	8.2	8.2	8.3	8.3	8.2	8.3	8.2	8.2	8.2	8.3	8.3	8.2	
Flow (m3/month)	—	8,998	8,943	16,032	16,313	17,722	22,049	26,724	15,126	15,555	16,058	12,900	10,416	
Rainbow Trout	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	As of July 1, 2012, the company name changed from Similco Mines Ltd. to Copper Mountain Mine (BC) Ltd.													
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Copper Mountain Mine												
Operator Name		Similco Mines Ltd. - Copper Mountain Mine (BC) Ltd.												
Product(s)		Copper-Gold-Silver												
Address		20 km south of Highway #3, near Princeton, British Columbia V0X 1W0												
Effluent Discharge Point		Co.SW37 - D2 Dump Drainage												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0014	0.0013	0.0014	0.0014	0.0015	0.0014	0.0011	0.0014	0.0013	0.0014	0.0014	0.0014	
Cu (mg/L)	0.3	0.0292	0.0228	0.0199	0.0213	0.0248	0.0201	0.0188	0.0193	0.0191	0.0196	0.0189	0.0206	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	
Ni (mg/L)	0.5	0.0013	0.0011	0.0011	0.0010	0.0010	0.0005	0.0011	0.0011	0.0010	0.0010	0.0011	0.0005	
Zn (mg/L)	0.5	0.0030	0.0030	0.0015	0.0015	0.0015	0.0030	0.0015	0.0030	0.0030	0.0030	0.0030	0.0030	
TSS (mg/L)	15	9.52	6.48	7.13	4.64	5.03	3.58	2.00	2.98	2.55	2.80	1.95	2.62	
Ra-226 (Bq/L)	0.37	NMR	0.0086	NMR	NMR	0.0024	NMR	NMR	0.0025	NMR	NMR	0.0074	NMR	
pH low	≥ 6.0	8.1	8.2	8.2	8.1	8.2	8.2	8.2	8.1	8.1	8.2	8.3	8.1	
pH high	≤ 9.5	8.2	8.2	8.4	8.4	8.3	8.4	8.3	8.3	8.3	8.3	8.3	8.2	
Flow (m3/month)	—	2,859	2,369	5,296	5,055	4,786	6,504	7,928	4,708	5,150	5,943	3,612	2,585	
Rainbow Trout	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	As of July 1, 2012, the company name changed from Similco Mines Ltd. to Copper Mountain Mine (BC) Ltd.													
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Copper Rand (Mine)													
Operator Name	CBay Minerals Inc.													
Product(s)	Copper-Gold-Silver													
Address	P.O. Box 400, Chibougamau, Quebec G8P 2X8													
Effluent Discharge Point	Final Discharge Point 2.1c													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0004	0.0019	0.0007	0.0006	0.0003	0.0019	0.0010	0.0008	0.0003	0.0015	0.0003	0.0004	
Cu (mg/L)	0.3	0.0064	0.0079	0.0066	0.0044	0.3597	0.0500	0.0079	0.0083	0.0071	0.0082	0.0140	0.0085	
CN (mg/L)	1.0	NMR	NMR	0.0025	NMR	NMR	0.0025	NMR	0.0080	0.0025	NMR	0.0025	NMR	
Pb (mg/L)	0.2	0.0014	0.0068	0.0015	0.0003	0.0002	0.0074	0.0012	0.0064	0.0014	0.0002	0.0002	0.0014	
Ni (mg/L)	0.5	0.0083	0.0073	0.0091	0.0053	0.0117	0.0075	0.0083	0.0073	0.0067	0.0076	0.0086	0.0076	
Zn (mg/L)	0.5	0.0054	0.0094	0.0103	0.0047	0.0031	0.0030	0.0031	0.0029	0.0013	0.0009	0.0012	0.0013	
TSS (mg/L)	15	1.25	0.60	0.50	1.90	1.75	2.00	1.10	0.88	1.30	1.50	3.00	1.13	
Ra-226 (Bq/L)	0.37	-	-	-	NMR	NMR	0.0010	NMR	0.0020	0.0030	NMR	0.0010	NMR	
pH low	≥ 6.0	7.0	7.4	7.6	7.5	7.3	7.6	7.8	7.8	7.3	7.6	7.5	7.2	
pH high	≤ 9.5	8.3	7.8	7.7	7.6	7.7	8.0	8.1	8.0	8.0	7.8	7.9	7.7	
Flow (m3/month)	—	10,858	9,582	11,145	20,100	30,148	10,230	36,038	64,906	83,675	149,404	254,265	168,421	
Rainbow Trout	Pass	NMR	NMR	1	-	-	-	1	NMR	NMR	NMR	1	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Daphnia magna	Pass	NMR	NMR	1	-	-	-	1	NMR	NMR	NMR	1	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	No radium 226 results were provided for the first quarter. No toxicity test results were provided for the second quarter.													
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Crean Hill Mine												
Operator Name		Vale Canada Ltd.												
Product(s)		Nickel-Copper-Cobalt-Platinum												
Address		410 Crean Hill Road, Copper Cliff (Walden), Ontario P0M 1N0												
Effluent Discharge Point		Crean Hill Mine Waste Water Treatment System												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	
Cu (mg/L)	0.3	0.0072	0.0073	0.0158	0.0303	0.0120	0.0100	0.0062	0.0043	0.0068	0.0066	0.0173	0.0084	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0360	0.0310	0.0310	0.0310	0.0310	0.0310	0.0310	0.0310	0.0253	0.0080	0.0080	0.0080	
Ni (mg/L)	0.5	0.2972	0.2580	0.2165	0.2700	0.0876	0.0908	0.0686	0.0543	0.1345	0.0858	0.2368	0.3036	
Zn (mg/L)	0.5	0.0068	0.0063	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0044	0.0025	0.0039	0.0025	
TSS (mg/L)	15	1.56	1.40	1.83	1.95	1.00	1.30	1.20	1.00	1.50	1.00	1.80	2.00	
Ra-226 (Bq/L)	0.37	0.0180	NMR	NMR	0.0060	NMR	NMR	0.0180	NMR	NMR	0.0130	NMR	NMR	
pH low	≥ 6.0	7.1	7.3	7.4	7.7	7.7	8.3	8.4	8.2	8.1	8.4	8.3	7.5	
pH high	≤ 9.5	8.1	8.1	8.6	9.0	8.7	8.6	8.6	8.6	8.5	8.6	8.8	8.6	
Flow (m3/month)	—	108,841	132,132	195,269	355,110	173,042	166,830	122,109	80,445	81,720	97,061	231,120	104,098	
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	David Bell Mine													
Operator Name	Barrick Gold Corporation - DB Operating Corporation													
Product(s)	Gold													
Address	Teck-Corona Road, Hwy 17, Marathon, Ontario P0T 2E0													
Effluent Discharge Point	Quarry Effluent													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	-	-	-	-	0.0007	0.0005	0.0010	ND	0.0007	ND	0.0008	ND	
Cu (mg/L)	0.3	-	-	-	-	0.0005	0.0005	0.0013	ND	0.0007	ND	0.0009	ND	
CN (mg/L)	1.0	-	-	-	-	0.0010	0.0010	0.0010	ND	0.0010	ND	0.0010	ND	
Pb (mg/L)	0.2	-	-	-	-	0.0005	0.0005	0.0001	ND	0.0005	ND	0.0005	ND	
Ni (mg/L)	0.5	-	-	-	-	0.0010	0.0010	0.0010	ND	0.0010	ND	0.0010	ND	
Zn (mg/L)	0.5	-	-	-	-	0.0015	0.0015	0.0040	ND	0.0020	ND	0.0026	ND	
TSS (mg/L)	15	-	-	-	-	2.43	1.00	1.00	ND	1.00	ND	1.00	ND	
Ra-226 (Bq/L)	0.37	-	-	-	-	0.0050	0.0075	0.0050	ND	0.0050	ND	0.0085	ND	
pH low	≥ 6.0	-	-	-	-	7.2	7.6	7.5	ND	7.6	ND	7.4	ND	
pH high	≤ 9.5	-	-	-	-	7.8	7.7	7.5	ND	7.8	ND	7.7	ND	
Flow (m3/month)	—	-	-	-	-	53,634	423	442	ND	1,695	ND	1,604	ND	
Rainbow Trout	Pass	-	-	-	-	1	1	1	ND	1	ND	1	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	-	-	-	-	1	1	1	ND	1	ND	1	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	This final discharge point became subject to the MMER in May 2013.													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	David Bell Mine													
Operator Name	Barrick Gold Corporation - DB Operating Corporation													
Product(s)	Gold													
Address	Teck-Corona Road, Hwy 17, Marathon, Ontario P0T 2E0													
Effluent Discharge Point	Sedimentation Pond Effluent													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	0.0010	0.0017	0.0016	0.0020	0.0027	0.0012	0.0007	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	0.0025	0.0015	0.0012	0.0030	0.0047	0.0030	0.0033	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	0.0076	0.0030	0.0020	0.0065	0.0040	0.0065	0.0075	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	0.0005	0.0005	0.0005	0.0008	0.0020	0.0001	0.0004	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	0.0042	0.0043	0.0030	0.0060	0.0065	0.0052	0.0083	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	0.0366	0.0340	0.0160	0.0308	0.0313	0.0759	0.0878	ND	
TSS (mg/L)	15	ND	ND	ND	ND	4.38	1.00	1.00	6.30	1.67	2.50	1.50	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	0.0050	0.0050	0.0050	0.0063	0.0070	0.0088	0.0063	ND	
pH low	≥ 6.0	ND	ND	ND	ND	7.6	7.8	7.5	7.7	7.6	7.6	7.8	ND	
pH high	≤ 9.5	ND	ND	ND	ND	8.1	7.8	7.5	7.8	7.8	7.9	7.9	ND	
Flow (m3/month)	—	ND	ND	ND	ND	15,116	1,588	4,898	4,423	4,428	7,642	6,154	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	1	1	1	1	1	1	1	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	1	1	1	1	1	1	1	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Detour Lake Mine											
Operator Name		Detour Gold Corporation											
Product(s)		Gold											
Address		86 - 2nd Street, Cochrane, Ontario P0L 1C0											
Effluent Discharge Point		T4											
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Cu (mg/L)	0.3	-	-	-	-	-	-	-	-	-	-	-	-
CN (mg/L)	1.0	-	-	-	-	-	-	-	-	-	-	-	-
Pb (mg/L)	0.2	-	-	-	-	-	-	-	-	-	-	-	-
Ni (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Zn (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
TSS (mg/L)	15	-	-	-	-	-	-	-	-	-	-	-	-
Ra-226 (Bq/L)	0.37	-	-	-	-	-	-	-	-	-	-	-	-
pH low	≥ 6.0	-	-	-	-	-	-	-	-	-	-	-	-
pH high	≤ 9.5	-	-	-	-	-	-	-	-	-	-	-	-
Flow (m3/month)	—	-	-	-	-	-	-	-	-	-	-	-	-
Rainbow Trout	Pass	-	-	-	-	-	-	-	-	-	-	-	-
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	-	-	-	-	-	-
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:		No effluent data were reported in 2013.											
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality			
		Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.											
		A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.											

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Doyon (Mine)												
Operator Name		IAMGOLD Corporation												
Product(s)		Gold												
Address		P.O. Box 970, Rouyn-Noranda, Quebec J9X 5C8												
Effluent Discharge Point		Pond A Final Effluent (D-203)												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0005	NMR	NMR	0.0005	0.0005	0.0005	0.0011	0.0005	0.0010	0.0005	0.0005	0.0005	
Cu (mg/L)	0.3	0.0128	0.0065	0.0139	0.0390	0.0098	0.0119	0.0055	0.0067	0.0310	0.0182	0.0733	0.1680	
CN (mg/L)	1.0	0.0316	0.0425	0.0665	0.0248	0.0115	0.0123	0.0074	0.0077	0.0040	0.0096	0.0625	0.0934	
Pb (mg/L)	0.2	0.0003	NMR	NMR	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	
Ni (mg/L)	0.5	0.0036	0.0038	0.0038	0.0061	0.0025	0.0021	0.0013	0.0010	0.0120	0.0069	0.0090	0.0062	
Zn (mg/L)	0.5	0.0035	NMR	NMR	0.0035	0.0035	0.0035	0.0035	0.0035	0.0210	0.0100	0.0079	0.0035	
TSS (mg/L)	15	3.56	2.38	4.80	12.72	2.95	2.90	2.44	2.37	10.30	4.42	6.03	5.10	
Ra-226 (Bq/L)	0.37	0.0025	NMR	NMR	0.0050	0.0050	NMR	0.0025	NMR	NMR	0.0025	NMR	NMR	
pH low	≥ 6.0	6.7	7.3	7.0	6.7	7.5	7.9	7.4	7.4	7.7	6.5	6.6	7.1	
pH high	≤ 9.5	8.3	7.6	7.4	8.5	7.8	8.2	8.0	7.5	7.7	8.0	7.4	7.6	
Flow (m3/month)	—	543,967	306,592	440,448	523,338	747,445	806,881	592,784	305,504	22,990	415,938	700,656	612,977	
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Duck Pond Operations											
Operator Name		Teck Resources Ltd.											
Product(s)		Copper-Zinc-Silver-Gold											
Address		30-32 Route 370, Box 9, Millertown, Newfoundland and Labrador A0H 1V0											
Effluent Discharge Point		Polishing Pond Effluent											
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0150	ND	ND	0.0033	0.0142	0.0092	0.0068	0.0038	0.0042	0.0057	0.0040	0.0070
Cu (mg/L)	0.3	0.2145	ND	ND	0.1250	0.2008	0.1790	0.0970	0.0673	0.0508	0.0563	0.0533	0.0827
CN (mg/L)	1.0	0.0050	ND	ND	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0040	0.0050
Pb (mg/L)	0.2	0.0200	ND	ND	0.0123	0.0274	0.0148	0.0152	0.0203	0.0151	0.0110	0.0160	0.0097
Ni (mg/L)	0.5	0.0055	ND	ND	0.0020	0.0014	0.0018	0.0026	0.0018	0.0054	0.0010	0.0010	0.0027
Zn (mg/L)	0.5	0.1025	ND	ND	0.0670	0.0954	0.1184	0.1584	0.1180	0.1313	0.1657	0.1708	0.3620
TSS (mg/L)	15	1.00	ND	ND	1.67	2.00	2.00	5.20	5.00	4.50	2.67	1.75	2.00
Ra-226 (Bq/L)	0.37	-	ND	ND	0.0120	0.0225	0.0286	0.0161	0.0131	0.0088	0.0025	0.0025	0.0025
pH low	≥ 6.0	7.6	ND	ND	7.2	6.9	7.1	7.3	7.2	7.4	7.5	7.3	7.5
pH high	≤ 9.5	7.7	ND	ND	7.5	7.3	7.7	7.7	7.5	7.6	7.6	7.6	7.6
Flow (m3/month)	—	81,342	ND	ND	171,669	590,220	547,439	571,957	406,319	424,435	233,272	475,138	298,884
Rainbow Trout	Pass	1	ND	ND	2	1	2	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	ND	ND	2	-	1	1	1	1	1	1	1
Monitoring Test	Fail	1	-	-	-	1	1	-	-	-	-	-	-
Comments:		No radium 226 results were provided for the first quarter.											
Notes:		ND: No Deposit			NMR: No Measurement Required			Pass: ≤50% Mortality			Fail: >50% Mortality		
		Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.											
		A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.											

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Eagle River Mill												
Operator Name		Wesdome Gold Mines Ltd.												
Product(s)		Gold												
Address		93 Mission Road, P.O. Box 1520, Wawa, Ontario P0S 1K0												
Effluent Discharge Point		Eagle River Mill												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	0.0291	ND	ND	ND	ND	ND	0.0061	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	2.5150	ND	ND	ND	ND	ND	0.3145	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	13.0000	ND	ND	ND	ND	ND	0.1925	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	0.0218	ND	ND	ND	ND	ND	0.0054	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	0.4375	ND	ND	ND	ND	ND	0.0887	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	0.5350	ND	ND	ND	ND	ND	0.0950	ND	
TSS (mg/L)	15	ND	ND	ND	ND	50.40	ND	ND	ND	ND	ND	3.50	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	0.0050	ND	ND	ND	ND	ND	0.0050	ND	
pH low	≥ 6.0	ND	ND	ND	ND	8.3	ND	ND	ND	ND	ND	7.3	ND	
pH high	≤ 9.5	ND	ND	ND	ND	8.4	ND	ND	ND	ND	ND	7.5	ND	
Flow (m3/month)	—	ND	ND	ND	ND	200	ND	ND	ND	ND	ND	29,358	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	1	ND	
Acute Lethality Test	Fail	-	-	-	-	1	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	1	ND	
Monitoring Test	Fail	-	-	-	-	1	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Eagle River Mine													
Operator Name	Wesdome Gold Mines Ltd.													
Product(s)	Gold													
Address	93 Mission Road, P.O. Box 1520, Wawa, Ontario P0S 1K0													
Effluent Discharge Point	FDP 1													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0004	0.0004	0.0004	0.0006	0.0003	0.0003	
Cu (mg/L)	0.3	0.0026	0.0065	0.0024	0.0019	0.0024	0.0016	0.0013	0.0018	0.0042	0.0034	0.0023	0.0027	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0002	0.0002	0.0002	0.0004	0.0009	0.0003	0.0002	0.0002	0.0007	0.0006	0.0004	0.0006	
Ni (mg/L)	0.5	0.0029	0.0028	0.0031	0.0033	0.0022	0.0018	0.0017	0.0019	0.0032	0.0026	0.0022	0.0025	
Zn (mg/L)	0.5	0.0061	0.0175	0.0055	0.0083	0.0062	0.0017	0.0012	0.0017	0.0047	0.0037	0.0038	0.0050	
TSS (mg/L)	15	3.21	3.63	4.85	5.55	11.14	5.43	1.47	3.08	4.93	3.66	3.98	5.63	
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0100	NMR	NMR	0.0050	0.0050	NMR	0.0050	0.0050	NMR	NMR	
pH low	≥ 6.0	7.3	7.3	7.3	7.3	7.1	6.9	7.0	7.0	7.1	6.9	6.8	6.9	
pH high	≤ 9.5	7.5	7.5	7.4	7.4	7.4	7.4	7.3	7.2	7.3	7.2	7.3	7.5	
Flow (m3/month)	—	21,563	16,971	17,940	22,487	55,017	23,893	27,942	27,784	26,661	30,188	43,062	25,670	
Rainbow Trout	Pass	NMR	NMR	1	NMR	NMR	1	1	NMR	1	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	NMR	1	1	NMR	1	1	NMR	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Edwards Mine												
Operator Name	Strike Minerals Inc.												
Product(s)	Gold												
Address	Goudreau Road, Jacobson, Ontario P0S 1B0												
Effluent Discharge Point	Edwards Mine Effluent Discharge 1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0022	0.0019	0.0019	0.0012	0.0014	0.0012	-	-	-	-	-	-
Cu (mg/L)	0.3	0.0019	0.0019	0.0022	1.0913	0.0500	0.0014	-	-	-	-	-	-
CN (mg/L)	1.0	0.0015	NMR	NMR	NMR	NMR	NMR	-	-	-	-	-	-
Pb (mg/L)	0.2	0.0012	0.0009	0.0001	0.0024	0.0008	0.0002	-	-	-	-	-	-
Ni (mg/L)	0.5	0.0014	0.0014	0.0017	0.0283	0.0013	0.0019	-	-	-	-	-	-
Zn (mg/L)	0.5	0.0283	0.0480	0.0371	0.0497	0.0137	0.0133	-	-	-	-	-	-
TSS (mg/L)	15	4.21	3.49	1.19	1.13	2.70	0.73	-	-	-	-	-	-
Ra-226 (Bq/L)	0.37	-	-	-	-	-	-	-	-	-	-	-	-
pH low	≥ 6.0	7.8	7.9	8.0	6.4	7.3	7.3	-	-	-	-	-	-
pH high	≤ 9.5	8.2	8.2	8.2	8.3	8.0	8.2	-	-	-	-	-	-
Flow (m3/month)	—	31,000	28,000	31,000	30,000	31,000	1,000	-	-	-	-	-	-
Rainbow Trout	Pass	1	1	1	-	1	1	-	-	-	-	-	-
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	-	1	1	-	-	-	-	-	-
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	<p>No annual report was submitted for 2013. This data has been compiled from the submitted quarterly reports. No reports were submitted for the third and fourth quarters. No radium 226 results were provided. No toxicity test results were provided for April.</p>												
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality Highlighted data indicate that a monthly effluent quality standard was exceeded for that month. A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Éléonore (Mine)												
Operator Name		Les Mines Opinaca Ltée.												
Product(s)		Gold												
Address		853 Rideau Boulevard, Rouyn-Noranda, Quebec J9Y 0G3												
Effluent Discharge Point		Final Effluent - Waste Rock Pile												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0124	0.0095	0.0097	0.0073	0.0085	0.0113	0.0118	0.0077	0.0080	0.0114	0.0060	0.0078	
Cu (mg/L)	0.3	0.0016	0.0004	0.0040	0.0055	0.0031	0.0038	0.0022	0.0032	0.0028	0.0017	0.0049	0.0050	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0032	0.0004	0.0067	0.0021	0.0005	0.0050	0.0086	0.0002	0.0002	0.0015	0.0010	0.0002	
Ni (mg/L)	0.5	0.0240	0.0195	0.0185	0.0168	0.0213	0.0224	0.0280	0.0251	0.0207	0.0278	0.0418	0.0266	
Zn (mg/L)	0.5	0.0126	0.0058	0.0066	0.0061	0.0053	0.0074	0.0075	0.0069	0.0025	0.0083	0.0153	0.0086	
TSS (mg/L)	15	2.20	1.63	3.60	4.00	2.50	4.10	3.33	5.50	2.00	6.75	7.07	6.75	
Ra-226 (Bq/L)	0.37	0.1968	0.1463	0.0706	0.1245	0.1328	0.1260	0.2307	0.2738	0.2320	0.2240	0.2180	0.1758	
pH low	≥ 6.0	7.2	6.8	6.8	6.8	6.6	6.7	6.5	6.5	6.2	6.3	6.3	6.2	
pH high	≤ 9.5	7.4	7.0	7.0	6.9	6.8	7.0	6.9	6.8	7.1	6.7	6.7	6.9	
Flow (m3/month)	—	40,874	35,920	42,981	48,777	51,407	49,889	50,807	51,932	44,728	53,901	62,258	66,683	
Rainbow Trout	Pass	1	1	1	2	5	6	2	1	1	1	1	1	
Acute Lethality Test	Fail	-	-	-	2	-	1	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	1	1	1	5	3	-	1	1	1	1	-	
Monitoring Test	Fail	-	-	-	1	-	4	1	-	-	-	-	1	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Elross Lake Area Iron Ore Mine												
Operator Name		Tata Steel Minerals Canada Limited												
Product(s)		Iron												
Address		15 km NW of Schefferville, QC, Newfoundland and Labrador												
Effluent Discharge Point		Outlet of Sedimentation Pond 2												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	-	-	-	-	0.0005	0.0005	ND	0.0014	0.0021	0.0048	ND	ND	
Cu (mg/L)	0.3	-	-	-	-	0.0009	0.0006	ND	0.0029	0.0032	0.0128	ND	ND	
CN (mg/L)	1.0	-	-	-	-	NMR	NMR	ND	NMR	NMR	NMR	ND	ND	
Pb (mg/L)	0.2	-	-	-	-	0.0004	0.0001	ND	0.0011	0.0009	0.0029	ND	ND	
Ni (mg/L)	0.5	-	-	-	-	0.0005	-	ND	0.0021	0.0028	0.0081	ND	ND	
Zn (mg/L)	0.5	-	-	-	-	0.0290	-	ND	0.0440	0.1675	0.7200	ND	ND	
TSS (mg/L)	15	-	-	-	-	53.00	18.00	ND	19.33	4.50	62.00	ND	ND	
Ra-226 (Bq/L)	0.37	-	-	-	-	0.0010	-	ND	0.0070	0.0058	0.0115	ND	ND	
pH low	≥ 6.0	-	-	-	-	6.6	6.9	ND	6.8	6.8	6.8	ND	ND	
pH high	≤ 9.5	-	-	-	-	6.6	6.9	ND	6.9	7.3	7.1	ND	ND	
Flow (m3/month)	—	-	-	-	-	69,568	2,569	ND	41,844	22,964	3,000	ND	ND	
Rainbow Trout	Pass	-	-	-	-	-	-	ND	1	-	1	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	ND	1	-	1	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	The mine became subject to the MMER in May 2013. No toxicity test results were provided for May, June and September. No results for Ni and Zn were provided for June. No radium 226 results were provided for June.													
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Endako Mines													
Operator Name	Thompson Creek Mining Ltd.													
Product(s)	Molybdenum													
Address	Bag 4001, Fraser Lake, British Columbia V0J 1S0													
Effluent Discharge Point	En.A1 – Tailings Pond 1 South													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	NMR	0.0001	NMR	NMR	0.0003	NMR	NMR	0.0001	NMR	NMR	0.0001	NMR	
Cu (mg/L)	0.3	NMR	0.0005	NMR	NMR	0.0010	NMR	NMR	0.0005	NMR	NMR	0.0005	NMR	
CN (mg/L)	1.0	NMR	0.0173	NMR	NMR	0.0025	NMR	NMR	0.0025	NMR	NMR	0.0144	NMR	
Pb (mg/L)	0.2	NMR	0.0001	NMR	NMR	0.0000	NMR	NMR	0.0001	NMR	NMR	0.0001	NMR	
Ni (mg/L)	0.5	NMR	0.0012	NMR	NMR	0.0014	NMR	NMR	0.0005	NMR	NMR	0.0012	NMR	
Zn (mg/L)	0.5	NMR	0.0030	NMR	NMR	0.0015	NMR	NMR	0.0030	NMR	NMR	0.0030	NMR	
TSS (mg/L)	15	1.07	1.95	1.23	2.76	2.33	1.93	1.52	1.30	2.50	1.96	1.60	2.50	
Ra-226 (Bq/L)	0.37	NMR	0.0039	NMR	NMR	0.0023	NMR	NMR	0.0035	NMR	NMR	0.0022	NMR	
pH low	≥ 6.0	7.9	7.9	8.0	7.8	8.0	7.9	8.0	8.0	7.9	8.1	8.1	8.0	
pH high	≤ 9.5	8.0	8.1	8.1	8.0	8.2	8.2	8.1	8.1	8.1	8.2	8.2	8.0	
Flow (m3/month)	—	165	36,246	6,864	106,062	29,280	8,330	34,310	81,050	4,455	31,167	27,353	81	
Rainbow Trout	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Endako Mines											
Operator Name		Thompson Creek Mining Ltd.											
Product(s)		Molybdenum											
Address		Bag 4001, Fraser Lake, British Columbia V0J 1S0											
Effluent Discharge Point		En.H1 – Tailings Pond 2 Higginbotham											
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	NMR	0.0001	NMR	NMR	0.0002	NMR	NMR	0.0003	NMR	NMR	0.0003	NMR
Cu (mg/L)	0.3	NMR	0.0005	NMR	NMR	0.0005	NMR	NMR	0.0005	NMR	NMR	0.0005	NMR
CN (mg/L)	1.0	NMR	0.0459	NMR	NMR	0.0335	NMR	NMR	0.0352	NMR	NMR	0.0443	NMR
Pb (mg/L)	0.2	NMR	0.0001	NMR	NMR	0.0001	NMR	NMR	0.0002	NMR	NMR	0.0001	NMR
Ni (mg/L)	0.5	NMR	0.0005	NMR	NMR	0.0005	NMR	NMR	0.0005	NMR	NMR	0.0005	NMR
Zn (mg/L)	0.5	NMR	0.0030	NMR	NMR	0.0030	NMR	NMR	0.0030	NMR	NMR	0.0030	NMR
TSS (mg/L)	15	4.78	5.33	6.08	11.62	8.10	7.35	16.42	13.55	10.15	7.18	4.78	3.44
Ra-226 (Bq/L)	0.37	NMR	0.0087	NMR	NMR	0.0063	NMR	NMR	0.0032	NMR	NMR	0.0075	NMR
pH low	≥ 6.0	7.9	7.9	8.0	7.9	7.9	8.0	7.9	7.9	7.9	8.0	8.0	7.8
pH high	≤ 9.5	8.0	8.1	8.1	8.1	8.1	8.2	8.0	8.1	8.1	8.2	8.1	8.0
Flow (m3/month)	—	51,807	46,172	53,723	57,858	58,745	51,600	47,479	43,245	40,905	42,557	40,830	44,776
Rainbow Trout	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Endako Mines												
Operator Name	Thompson Creek Mining Ltd.												
Product(s)	Molybdenum												
Address	Bag 4001, Fraser Lake, British Columbia V0J 1S0												
Effluent Discharge Point	En.N1 – Tailings Pond 1 North												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	NMR	0.0001	NMR	NMR	0.0001	NMR	NMR	0.0001	NMR	NMR	0.0001	NMR
Cu (mg/L)	0.3	NMR	0.0005	NMR	NMR	0.0005	NMR	NMR	0.0005	NMR	NMR	0.0005	NMR
CN (mg/L)	1.0	NMR	0.0149	NMR	NMR	0.0025	NMR	NMR	0.0068	NMR	NMR	0.0091	NMR
Pb (mg/L)	0.2	NMR	0.0001	NMR	NMR	0.0001	NMR	NMR	0.0001	NMR	NMR	0.0001	NMR
Ni (mg/L)	0.5	NMR	0.0005	NMR	NMR	0.0005	NMR	NMR	0.0005	NMR	NMR	0.0005	NMR
Zn (mg/L)	0.5	NMR	0.0030	NMR	NMR	0.0030	NMR	NMR	0.0030	NMR	NMR	0.0030	NMR
TSS (mg/L)	15	0.72	0.73	0.88	1.26	1.25	0.93	0.84	0.75	0.80	0.74	1.03	1.34
Ra-226 (Bq/L)	0.37	NMR	0.0039	NMR	NMR	0.0028	NMR	NMR	0.0033	NMR	NMR	0.0063	NMR
pH low	≥ 6.0	7.9	8.0	8.0	8.0	8.1	8.0	8.0	8.0	8.0	8.2	8.1	7.8
pH high	≤ 9.5	8.1	8.1	8.2	8.2	8.2	8.2	8.1	8.2	8.2	8.2	8.2	8.1
Flow (m3/month)	—	83,799	70,413	141,128	165,222	165,881	1,523	1,713	33,534	24,008	29,444	55,455	109,368
Rainbow Trout	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Endako Mines												
Operator Name	Thompson Creek Mining Ltd.												
Product(s)	Molybdenum												
Address	Bag 4001, Fraser Lake, British Columbia V0J 1S0												
Effluent Discharge Point	En.S2 – Tailings Pond 2 South												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	NMR	0.0001	NMR	NMR	0.0001	NMR	NMR	0.0001	NMR	NMR	0.0001	NMR
Cu (mg/L)	0.3	NMR	0.0005	NMR	NMR	0.0005	NMR	NMR	0.0005	NMR	NMR	0.0005	NMR
CN (mg/L)	1.0	NMR	0.0634	NMR	NMR	0.0058	NMR	NMR	0.0025	NMR	NMR	0.0178	NMR
Pb (mg/L)	0.2	NMR	0.0001	NMR	NMR	0.0001	NMR	NMR	0.0001	NMR	NMR	0.0001	NMR
Ni (mg/L)	0.5	NMR	0.0005	NMR	NMR	0.0005	NMR	NMR	0.0005	NMR	NMR	0.0005	NMR
Zn (mg/L)	0.5	NMR	0.0030	NMR	NMR	0.0030	NMR	NMR	0.0030	NMR	NMR	0.0030	NMR
TSS (mg/L)	15	1.38	0.98	0.78	1.00	0.98	1.35	0.80	0.65	0.85	0.92	0.95	0.64
Ra-226 (Bq/L)	0.37	NMR	0.0024	NMR	NMR	0.0034	NMR	NMR	0.0020	NMR	NMR	0.0034	NMR
pH low	≥ 6.0	7.8	7.9	8.0	7.8	7.9	8.0	7.9	7.9	7.8	7.9	8.0	7.8
pH high	≤ 9.5	8.0	8.0	8.1	8.0	8.1	8.0	8.1	8.0	8.0	8.2	8.1	8.0
Flow (m3/month)	—	37,504	35,959	37,014	52,830	47,399	93,480	29,035	39,812	33,480	31,899	24,683	24,905
Rainbow Trout	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Endako Mines												
Operator Name	Thompson Creek Mining Ltd.												
Product(s)	Molybdenum												
Address	Bag 4001, Fraser Lake, British Columbia V0J 1S0												
Effluent Discharge Point	En.SBC – Endako Pit												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	NMR	0.0002	NMR	NMR	0.0003	NMR	NMR	0.0003	NMR	NMR	0.0003	NMR
Cu (mg/L)	0.3	NMR	0.0013	NMR	NMR	0.0013	NMR	NMR	0.0013	NMR	NMR	0.0013	NMR
CN (mg/L)	1.0	NMR	0.0025	NMR	NMR	0.0025	NMR	NMR	0.0025	NMR	NMR	0.0025	NMR
Pb (mg/L)	0.2	NMR	0.0001	NMR	NMR	0.0001	NMR	NMR	0.0001	NMR	NMR	0.0001	NMR
Ni (mg/L)	0.5	NMR	0.0005	NMR	NMR	0.0013	NMR	NMR	0.0013	NMR	NMR	0.0013	NMR
Zn (mg/L)	0.5	NMR	0.0030	NMR	NMR	0.0150	NMR	NMR	0.0150	NMR	NMR	0.0150	NMR
TSS (mg/L)	15	0.50	0.98	1.00	1.40	0.63	1.68	0.80	0.85	0.65	1.58	0.73	3.70
Ra-226 (Bq/L)	0.37	NMR	0.0032	NMR	NMR	0.0029	NMR	NMR	0.0035	NMR	NMR	0.0067	NMR
pH low	≥ 6.0	8.0	8.0	8.1	8.0	8.0	7.9	8.1	8.0	7.9	8.0	8.0	7.8
pH high	≤ 9.5	8.1	8.2	8.3	8.2	8.2	8.1	8.2	8.2	8.1	8.2	8.1	8.0
Flow (m3/month)	—	5,152	5,236	5,162	37,488	36,355	10,553	9,635	7,285	6,000	7,769	5,033	4,024
Rainbow Trout	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Endako Mines												
Operator Name		Thompson Creek Mining Ltd.												
Product(s)		Molybdenum												
Address		Bag 4001, Fraser Lake, British Columbia V0J 1S0												
Effluent Discharge Point		En.W2 – Denak West Pit												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	NMR	0.0003	NMR	-	ND	-	NMR	0.0005	ND	
Cu (mg/L)	0.3	ND	ND	ND	NMR	0.0037	NMR	-	ND	-	NMR	0.0025	ND	
CN (mg/L)	1.0	ND	ND	ND	NMR	0.0025	NMR	-	ND	-	NMR	0.0025	ND	
Pb (mg/L)	0.2	ND	ND	ND	NMR	0.0001	NMR	-	ND	-	NMR	0.0003	ND	
Ni (mg/L)	0.5	ND	ND	ND	NMR	0.0013	NMR	-	ND	-	NMR	0.0025	ND	
Zn (mg/L)	0.5	ND	ND	ND	NMR	0.0150	NMR	-	ND	-	NMR	0.0300	ND	
TSS (mg/L)	15	ND	ND	ND	3.10	1.38	0.88	2.13	ND	4.30	4.08	1.50	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	NMR	0.0028	NMR	-	ND	-	NMR	0.0085	ND	
pH low	≥ 6.0	ND	ND	ND	7.9	7.9	7.9	8.0	ND	7.9	8.0	8.1	ND	
pH high	≤ 9.5	ND	ND	ND	8.0	8.2	8.1	8.3	ND	7.9	8.1	8.1	ND	
Flow (m3/month)	—	ND	ND	ND	17,214	17,042	9,143	2,941	ND	1,224	7,514	680	ND	
Rainbow Trout	Pass	ND	ND	ND	1	NMR	NMR	-	ND	-	NMR	1	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	1	NMR	NMR	-	ND	-	NMR	1	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:		Only flow measurements and test results for TSS and pH were provided for the third quarter.												
Notes:		ND: No Deposit			NMR: No Measurement Required			Pass: ≤50% Mortality			Fail: >50% Mortality			
		Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.												
		A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Fire Lake (Mine)													
Operator Name	ArcelorMittal Mines Canada - ArcelorMittal Exploitation minière Canada s.e.n.c.													
Product(s)	Iron													
Address	389 Road, P.O. Box 1817, Mont-Wright, Quebec G0G 1J0													
Effluent Discharge Point	Beaver Pit – Spillway (FL-2)													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0006	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0024	0.0020	0.0005	0.0005	0.0005	
Cu (mg/L)	0.3	0.0010	0.0007	0.0009	0.0017	0.0033	0.0011	0.0038	0.0018	0.0016	0.0024	0.0011	0.0032	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0005	0.0005	0.0005	0.0005	0.0021	0.0005	0.0010	0.0005	0.0010	0.0005	0.0005	0.0066	
Ni (mg/L)	0.5	0.0020	0.0020	0.0020	0.0025	0.0030	0.0008	0.0027	0.0014	0.0018	0.0101	0.0018	0.0022	
Zn (mg/L)	0.5	0.0574	0.0633	0.0435	0.0147	0.0253	0.1193	0.0272	0.0118	0.0212	0.0095	0.0128	0.0260	
TSS (mg/L)	15	0.70	0.67	0.88	10.20	9.00	0.88	0.80	0.75	2.80	0.63	1.00	0.60	
Ra-226 (Bq/L)	0.37	0.0050	NMR	NMR	0.0080	0.0010	0.0010	0.0010	0.0010	0.0010	0.0030	0.0010	0.0010	
pH low	≥ 6.0	6.9	7.0	6.8	7.0	7.0	7.0	7.0	7.0	6.9	7.1	7.0	7.1	
pH high	≤ 9.5	7.3	7.1	7.1	7.2	7.2	7.7	7.4	7.5	7.1	7.3	7.2	8.4	
Flow (m3/month)	—	12,149	8,370	5,222	5,266	289,415	51,726	96,379	63,441	121,300	93,616	79,383	13,541	
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	As of March 2013, the company name changed from ArcelorMittal Mines Canada to ArcelorMittal Exploitation minière Canada s.e.n.c.													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Fire Lake (Mine)												
Operator Name	ArcelorMittal Mines Canada - ArcelorMittal Exploitation minière Canada s.e.n.c.												
Product(s)	Iron												
Address	389 Road, P.O. Box 1817, Mont-Wright, Quebec G0G 1J0												
Effluent Discharge Point	Main Pit (FL-1)												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Cu (mg/L)	0.3	-	-	-	-	-	-	-	-	-	-	-	-
CN (mg/L)	1.0	-	-	-	-	-	-	-	-	-	-	-	-
Pb (mg/L)	0.2	-	-	-	-	-	-	-	-	-	-	-	-
Ni (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Zn (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
TSS (mg/L)	15	-	-	-	-	-	-	-	-	-	-	-	-
Ra-226 (Bq/L)	0.37	-	-	-	-	-	-	-	-	-	-	-	-
pH low	≥ 6.0	-	-	-	-	-	-	-	-	-	-	-	-
pH high	≤ 9.5	-	-	-	-	-	-	-	-	-	-	-	-
Flow (m3/month)	—	-	-	-	-	-	-	-	-	-	-	-	-
Rainbow Trout	Pass	-	-	-	-	-	-	-	-	-	-	-	-
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	-	-	-	-	-	-
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	As of March 2013, the company name changed from ArcelorMittal Mines Canada to ArcelorMittal Exploitation minière Canada s.e.n.c.. The effluent “Main Pit (FL-1)” is no longer subject to the MMER.												
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Flin Flon Complex													
Operator Name	Hudson Bay Mining and Smelting Co. Ltd. - Hudbay Minerals Inc.													
Product(s)	Copper-Lead-Zinc													
Address	P.O. Box 1500, Flin Flon, Manitoba R8A 1N9													
Effluent Discharge Point	North Weir Discharge													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0126	0.0308	0.0258	0.0108	0.0006	0.0005	0.0005	0.0005	0.0005	0.0005	0.0015	0.0076	
Cu (mg/L)	0.3	0.0250	0.0178	0.0078	0.0144	0.0040	0.0040	0.0052	0.0040	0.0065	0.0040	0.0053	0.0050	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	
Ni (mg/L)	0.5	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035	
Zn (mg/L)	0.5	0.0382	0.0360	0.0490	0.0804	0.0373	0.0188	0.0388	0.0265	0.0575	0.0296	0.2238	0.1646	
TSS (mg/L)	15	1.08	1.26	0.98	2.30	1.23	1.08	1.12	1.00	0.73	1.14	0.45	0.90	
Ra-226 (Bq/L)	0.37	0.0500	NMR	NMR	0.0200	NMR	NMR	0.0050	NMR	NMR	0.0200	0.0250	0.0220	
pH low	≥ 6.0	7.6	8.0	8.6	8.4	8.1	7.7	6.9	7.6	8.2	8.3	8.4	7.4	
pH high	≤ 9.5	8.9	8.7	8.7	9.5	8.9	8.5	8.6	8.2	8.2	8.7	8.6	8.9	
Flow (m3/month)	—	839,166	754,096	878,363	1,005,133	1,222,098	1,365,819	1,694,116	1,432,385	296,448	1,084,903	899,639	881,234	
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	NMR	NMR	-	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Monitoring Test	Fail	-	-	-	1	-	-	-	-	-	-	-	-	
Comments:	As of 2012, the company name changed from Hudson Bay Mining and Smelting Co. Ltd. to HudBay Minerals Inc.													
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Francoeur (Mine)												
Operator Name	Richmont Mines Inc.												
Product(s)	Gold												
Address	199 Provencher Avenue, P.O. 39, Rouyn-Noranda, Quebec J0Z 1B0												
Effluent Discharge Point	Francoeur Final Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0009	0.0003	0.0003	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	0.0016	0.0014	0.0009	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	NMR	NMR	NMR	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	0.0002	0.0057	0.0073	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	0.0074	0.0081	0.0086	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	0.0192	0.0105	0.0105	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	1.30	0.50	2.25	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	0.0010	NMR	0.0010	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥ 6.0	7.9	7.9	7.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤ 9.5	8.1	7.9	7.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m3/month)	—	30,015	26,297	10,578	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	1	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No <i>Daphnia magna</i> monitoring results were provided for March.												
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Garson Mine												
Operator Name		Vale Canada Ltd.												
Product(s)		Nickel-Copper-Cobalt-Platinum												
Address		60 Mine Road, Garson, Ontario P3L 1A2												
Effluent Discharge Point		Garson Mine												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0010	0.0010	0.0010	0.0015	0.0013	0.0010	0.0010	0.0010	0.0010	0.0010	0.0015	0.0010	
Cu (mg/L)	0.3	0.0042	0.0070	0.0053	0.0095	0.0060	0.0035	0.0014	0.0010	0.0021	0.0022	0.0030	0.0034	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0338	0.0318	0.0310	0.0310	0.0310	0.0310	0.0310	0.0310	0.0253	0.0080	0.0080	0.0080	
Ni (mg/L)	0.5	0.1220	0.1540	0.1253	0.2040	1.0377	0.1975	0.1508	0.0948	0.1195	0.1022	0.1205	0.2032	
Zn (mg/L)	0.5	0.0072	0.0068	0.0050	0.0070	0.0112	0.0050	0.0050	0.0050	0.0041	0.0025	0.0025	0.0100	
TSS (mg/L)	15	1.00	1.00	1.00	1.00	1.89	1.25	1.76	1.25	1.25	1.00	1.00	1.00	
Ra-226 (Bq/L)	0.37	0.0025	NMR	NMR	0.0050	NMR	NMR	0.0140	NMR	NMR	0.0090	NMR	NMR	
pH low	≥ 6.0	7.0	7.0	7.1	7.5	7.4	8.2	8.3	8.3	8.1	7.5	7.2	7.0	
pH high	≤ 9.5	7.6	7.5	7.9	8.4	8.3	8.4	8.5	8.4	8.4	8.2	7.8	7.5	
Flow (m3/month)	—	88,505	78,988	97,123	110,040	110,983	119,160	119,225	91,450	89,400	97,867	97,500	84,723	
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Géant Dormant (Mine)												
Operator Name		North American Palladium Ltd. / Maudore Minerals Ltd. - Mines Aurbec Inc.												
Product(s)		Gold												
Address		Km 118, Road 109 North, Amos, Quebec J9T 3A3												
Effluent Discharge Point		GD-E01 Final Effluent – Mine Water Pond												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0009	NMR	NMR	0.0003	NMR	NMR	0.0003	NMR	0.0003	0.0011	0.0018	0.0007	
Cu (mg/L)	0.3	0.0003	0.0045	0.0041	0.0033	0.0122	NMR	0.0024	0.0037	0.0028	0.0015	0.0168	0.0015	
CN (mg/L)	1.0	0.0025	NMR	NMR	0.0080	NMR	NMR	0.0025	NMR	NMR	0.0050	NMR	NMR	
Pb (mg/L)	0.2	0.0002	NMR	NMR	0.0008	NMR	NMR	0.0002	NMR	0.0002	0.0002	0.0002	0.0002	
Ni (mg/L)	0.5	0.0020	NMR	NMR	0.0021	NMR	NMR	0.0052	NMR	0.0016	0.0023	0.0021	0.0023	
Zn (mg/L)	0.5	0.1294	0.1100	0.1213	0.1190	0.0874	0.0825	0.0664	0.0718	0.0750	0.0702	0.0780	0.1146	
TSS (mg/L)	15	1.10	1.75	1.25	0.63	1.60	1.00	0.90	1.75	1.50	1.00	1.00	0.80	
Ra-226 (Bq/L)	0.37	0.0060	NMR	NMR	0.0060	NMR	NMR	0.0060	NMR	NMR	0.0090	NMR	NMR	
pH low	≥ 6.0	8.1	8.1	8.2	8.3	8.3	8.5	8.3	8.0	8.3	8.0	8.0	7.7	
pH high	≤ 9.5	8.4	8.3	8.4	8.6	8.7	8.6	8.6	8.4	8.3	8.3	8.2	8.5	
Flow (m3/month)	—	157,051	74,365	94,600	80,354	88,432	123,039	120,764	114,688	98,028	81,240	90,044	114,158	
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	As of March 22, 2013 , the ownership of Géant Dormant Mine was transferred from North American Palladium Ltd. to Maudore Minerals Ltd. - Mines Aurbec Inc.													
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Géant Dormant (Mine)													
Operator Name	North American Palladium Ltd. / Maudore Minerals Ltd. - Mines Aurbec Inc.													
Product(s)	Gold													
Address	Km 118, Road 109 North, Amos, Quebec J9T 3A3													
Effluent Discharge Point	GD-E03 Polishing Pond 2A													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	0.0012	ND	0.0005	0.0003	0.0003	0.0003	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	0.0254	ND	0.0097	0.0241	0.0382	0.0370	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	0.0053	ND	0.0119	0.0090	0.0033	0.0025	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	0.0027	ND	0.0081	0.0006	0.0009	0.0002	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	0.0204	ND	0.0913	0.0948	0.0633	0.0694	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	0.0230	ND	0.0101	0.0163	0.0168	0.0220	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	14.50	ND	3.25	3.75	9.00	14.00	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	0.0010	ND	0.0010	-	0.0010	0.0020	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	7.2	ND	7.6	7.5	7.6	7.4	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	7.7	ND	7.8	7.8	7.7	7.4	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	53,157	ND	104,979	161,818	64,045	1,039	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	1	ND	1	1	1	1	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Daphnia magna	Pass	ND	ND	ND	ND	1	ND	1	1	1	1	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	As of March 22, 2013, the ownership of Géant Dormant Mine was transferred from North American Palladium Ltd. to Maudore Minerals Ltd. - Mines Aurbec Inc. No radium 226 results were provided for August.													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Giant Mine												
Operator Name	Aboriginal Affairs and Northern Development Canada												
Product(s)	Gold												
Address	Giant Minesite, Box 2951, Yellowknife, Northwest Territories X1A 2R2												
Effluent Discharge Point	Surveillance Network Program Station 43-1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.3153	0.2718	0.2890	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	0.0147	0.0137	0.0127	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	0.0043	0.0014	0.0025	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	0.0001	0.0001	0.0001	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0386	0.0354	0.0386	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0071	0.0102	0.0068	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	1.30	1.70	0.80	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	0.0100	0.0100	0.0050	ND	ND	ND
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	8.3	7.6	8.3	ND	ND	ND
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	8.5	8.5	8.5	ND	ND	ND
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	127,692	105,453	62,618	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	1	1	1	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	1	1	1	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Gibraltar Mine													
Operator Name	Taseko Mines Ltd.													
Product(s)	Copper-Molybdenum													
Address	10251 Gibraltar Mine Road, P.O. Box 130, McLeese Lake, British Columbia V0L 1P0													
Effluent Discharge Point	Gi.ESAD - East Saddle Dam													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0002	0.0003	0.0005	0.0008	0.0006	0.0008	0.0006	0.0014	0.0009	0.0005	0.0005	0.0004	
Cu (mg/L)	0.3	0.0010	0.0010	0.0026	0.0085	0.0040	0.0040	0.0013	0.0026	0.0026	0.0017	0.0011	0.0011	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0000	0.0000	0.0001	0.0003	0.0001	0.0002	0.0000	0.0001	0.0001	0.0000	0.0000	0.0000	
Ni (mg/L)	0.5	0.0008	0.0008	0.0018	0.0032	0.0019	0.0021	0.0012	0.0052	0.0031	0.0019	0.0017	0.0018	
Zn (mg/L)	0.5	0.0025	0.0025	0.0025	0.0047	0.0033	0.0038	0.0025	0.0025	0.0036	0.0025	0.0025	0.0025	
TSS (mg/L)	15	0.50	1.80	3.53	13.16	6.25	9.13	2.00	13.53	8.97	1.74	0.80	1.08	
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0070	NMR	0.0028	0.0117	NMR	NMR	0.0085	NMR	NMR	0.0030	
pH low	≥ 6.0	7.0	7.4	7.3	7.0	7.1	7.1	7.3	7.1	5.6	7.1	6.9	6.9	
pH high	≤ 9.5	7.5	7.7	7.6	7.2	7.8	7.4	8.0	7.7	7.4	7.5	7.3	7.2	
Flow (m3/month)	—	1,993	1,594	2,118	6,523	3,113	2,702	1,895	1,669	1,109	1,172	1,412	1,296	
Rainbow Trout	Pass	1	1	1	1	1	1	1	NMR	NMR	NMR	1	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	NMR	NMR	NMR	1	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Gibraltar Mine												
Operator Name		Taseko Mines Ltd.												
Product(s)		Copper-Molybdenum												
Address		10251 Gibraltar Mine Road, P.O. Box 130, McLeese Lake, British Columbia V0L 1P0												
Effluent Discharge Point		Gi.FRD – Fraser River Diffuser												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	-	0.0004	0.0004	0.0003	0.0003	0.0003	0.0004	0.0004	ND	
Cu (mg/L)	0.3	ND	ND	ND	-	0.0016	0.0021	0.0020	0.0020	0.0018	0.0025	0.0015	ND	
CN (mg/L)	1.0	ND	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	ND	
Pb (mg/L)	0.2	ND	ND	ND	-	0.0001	0.0001	0.0000	0.0001	0.0001	0.0001	0.0001	ND	
Ni (mg/L)	0.5	ND	ND	ND	-	0.0008	0.0007	0.0007	0.0009	0.0013	0.0016	0.0014	ND	
Zn (mg/L)	0.5	ND	ND	ND	-	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	ND	
TSS (mg/L)	15	ND	ND	ND	-	1.15	1.30	1.44	1.88	1.14	2.28	1.60	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	NMR	0.0034	NMR	0.0061	NMR	NMR	-	-	ND	
pH low	≥ 6.0	ND	ND	ND	-	7.4	7.1	7.1	7.0	7.0	7.4	7.4	ND	
pH high	≤ 9.5	ND	ND	ND	-	7.6	7.3	7.2	7.1	7.0	7.4	7.4	ND	
Flow (m3/month)	—	ND	ND	ND	5,455	462,800	457,813	396,074	358,371	453,467	489,341	125,642	ND	
Rainbow Trout	Pass	ND	ND	ND	-	1	1	1	1	1	1	1	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	-	1	1	1	1	1	1	1	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:		Only flow measurement was provided for April. No radium 226 results were provided for the fourth quarter.												
Notes:		ND: No Deposit			NMR: No Measurement Required			Pass: ≤50% Mortality			Fail: >50% Mortality			
		Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.												
		A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Golden Giant Mine													
Operator Name	Newmont Canada Corporation													
Product(s)	Gold													
Address	Yellow Brick Road, Hwy. 17, P.O. Box 40, Marathon, Ontario P0T 2E0													
Effluent Discharge Point	ITF Emergency Spillway													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Golden Giant Mine												
Operator Name	Newmont Canada Corporation												
Product(s)	Gold												
Address	Yellow Brick Road, Hwy. 17, P.O. Box 40, Marathon, Ontario P0T 2E0												
Effluent Discharge Point	Waste Water Treatment Plant Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0016	0.0019	0.0012	0.0011	0.0008	0.0014	0.0010	0.0012	0.0011	0.0012	0.0011	0.0010
Cu (mg/L)	0.3	0.0009	0.0003	0.0002	0.0001	0.0005	0.0009	0.0003	0.0001	0.0011	0.0003	0.0002	0.0006
CN (mg/L)	1.0	0.0396	0.0363	0.0959	0.0608	0.0150	0.0134	0.0348	0.0110	0.0085	0.0090	0.0088	0.0104
Pb (mg/L)	0.2	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
Ni (mg/L)	0.5	0.0068	0.0081	0.0080	0.0082	0.0059	0.0068	0.0066	0.0032	0.0080	0.0051	0.0077	0.0061
Zn (mg/L)	0.5	0.0009	0.0003	0.0003	0.0003	0.0008	0.0024	0.0003	0.0003	0.0060	0.0006	0.0003	0.0003
TSS (mg/L)	15	2.00	5.13	3.28	3.36	1.23	1.33	2.25	1.00	1.90	0.90	1.25	1.80
Ra-226 (Bq/L)	0.37	0.0154	0.0093	0.0090	0.0066	0.0050	0.0088	0.0090	0.0050	0.0135	0.0082	0.0083	0.0062
pH low	≥ 6.0	7.2	7.2	7.3	7.2	7.1	7.3	7.1	7.7	7.2	6.9	7.2	7.2
pH high	≤ 9.5	7.4	7.4	7.4	7.3	7.6	7.5	7.5	7.7	7.3	7.4	7.4	7.3
Flow (m3/month)	—	35,436	35,240	34,540	36,975	36,409	27,484	30,186	11,664	17,005	42,510	36,156	39,995
Rainbow Trout	Pass	1	2	1	1	1	1	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Goldex (Mine)													
Operator Name	Mines Agnico-Eagle Ltée													
Product(s)	Gold													
Address	1953 3rd Avenue West, P.O. Box 87, Val-d'Or, Quebec J9P 4N9													
Effluent Discharge Point	Final Effluent													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Goldex (Mine)													
Operator Name	Mines Agnico-Eagle Ltée													
Product(s)	Gold													
Address	1953 3rd Avenue West, P.O. Box 87, Val-d'Or, Quebec J9P 4N9													
Effluent Discharge Point	Final Effluent – Goldex Tailings Pond													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	0.0014	0.0016	0.0011	0.0003	0.0014	0.0008	0.0008	ND	0.0005	0.0007	ND	
Cu (mg/L)	0.3	ND	0.0015	0.0006	0.0018	0.0016	0.0012	0.0009	0.0008	ND	0.0012	0.0041	ND	
CN (mg/L)	1.0	ND	NMR	NMR	NMR	NMR	NMR	NMR	NMR	ND	NMR	NMR	ND	
Pb (mg/L)	0.2	ND	0.0016	0.0022	0.0002	0.0024	0.0223	0.0002	0.0025	ND	0.0057	0.0008	ND	
Ni (mg/L)	0.5	ND	0.0094	0.0103	0.0073	0.0045	0.0054	0.0057	0.0064	ND	0.0059	0.0062	ND	
Zn (mg/L)	0.5	ND	0.0115	0.0135	0.0129	0.0078	0.0055	0.0060	0.0077	ND	0.0107	0.0077	ND	
TSS (mg/L)	15	ND	0.88	2.50	3.40	3.38	4.50	1.00	1.00	ND	1.33	2.33	ND	
Ra-226 (Bq/L)	0.37	ND	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0020	ND	0.0030	0.0010	ND	
pH low	≥ 6.0	ND	7.2	7.2	6.8	7.0	7.6	7.6	7.3	ND	7.5	6.9	ND	
pH high	≤ 9.5	ND	7.3	7.3	7.2	7.6	7.9	7.6	7.7	ND	7.6	7.5	ND	
Flow (m3/month)	—	ND	106,101	208,027	737,026	525,772	282,921	1,102,912	110,292	ND	115,296	159,872	ND	
Rainbow Trout	Pass	ND	1	1	1	1	1	1	1	ND	1	1	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	1	1	-	1	1	1	1	ND	1	1	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	No <i>Daphnia magna</i> monitoring results were provided for March.													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Goldex (Mine)													
Operator Name	Mines Agnico-Eagle Ltée													
Product(s)	Gold													
Address	1953 3rd Avenue West, P.O. Box 87, Val-d'Or, Quebec J9P 4N9													
Effluent Discharge Point	Final Effluent – Shaft No. 2													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Haley Plant												
Operator Name	Timminco Ltd.												
Product(s)	Magnesium-Calcium-Strontium												
Address	962 Magnesium Road, Haley Station, Ontario K0J 1Y0												
Effluent Discharge Point	FDP 1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Cu (mg/L)	0.3	-	-	-	-	-	-	-	-	-	-	-	-
CN (mg/L)	1.0	-	-	-	-	-	-	-	-	-	-	-	-
Pb (mg/L)	0.2	-	-	-	-	-	-	-	-	-	-	-	-
Ni (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Zn (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
TSS (mg/L)	15	-	-	-	-	-	-	-	-	-	-	-	-
Ra-226 (Bq/L)	0.37	-	-	-	-	-	-	-	-	-	-	-	-
pH low	≥ 6.0	-	-	-	-	-	-	-	-	-	-	-	-
pH high	≤ 9.5	-	-	-	-	-	-	-	-	-	-	-	-
Flow (m3/month)	—	-	-	-	-	-	-	-	-	-	-	-	-
Rainbow Trout	Pass	-	-	-	-	-	-	-	-	-	-	-	-
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	-	-	-	-	-	-
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No effluent data were reported in 2013.												
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Hislop Mine												
Operator Name	St Andrew Goldfields Ltd.												
Product(s)	Gold												
Address	80 km east of Timmins and 1 km west off Hwy 572, Timmins, Ontario P0K 1N0												
Effluent Discharge Point	Sedimentation Pond												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0018	0.0025	0.0028	0.0027	0.0017	0.0033	0.0023	0.0017	0.0013	0.0017	0.0008	0.0005
Cu (mg/L)	0.3	0.0018	0.0020	0.0165	0.0026	0.0016	0.0037	0.0042	0.0016	0.0019	0.0017	0.0052	0.0015
CN (mg/L)	1.0	NMR	NMR	NMR	0.0010	0.0010	0.0010	0.0095	0.0010	0.0010	0.0010	0.0023	0.0190
Pb (mg/L)	0.2	0.0001	0.0001	0.0004	0.0005	0.0005	0.0005	0.0006	0.0005	0.0008	0.0006	0.0005	0.0005
Ni (mg/L)	0.5	0.0055	0.0057	0.0073	0.0086	0.0038	0.0048	0.0044	0.0034	0.0031	0.0028	0.0015	0.0027
Zn (mg/L)	0.5	0.0017	0.0030	0.0040	0.0038	0.0017	0.0020	0.0041	0.0012	0.0033	0.0018	0.0017	0.0005
TSS (mg/L)	15	1.88	1.14	1.49	4.90	3.36	3.42	1.13	1.68	2.30	0.76	2.63	0.40
Ra-226 (Bq/L)	0.37	NMR	0.0140	0.0130	NMR	NMR	0.0130	NMR	NMR	0.0080	-	-	-
pH low	≥ 6.0	7.6	7.6	7.2	7.5	7.3	7.5	7.8	7.1	7.4	7.7	7.4	8.0
pH high	≤ 9.5	8.2	7.9	7.7	7.6	8.1	8.2	7.9	8.0	8.2	8.1	7.9	8.0
Flow (m3/month)	—	49,035	56,686	62,151	47,564	30,818	65,101	62,637	65,922	69,065	60,902	28,141	2,539
Rainbow Trout	Pass	2	1	1	1	1	1	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	2	1	1	1	1	1	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No radium 226 test results were reported for the fourth quarter.												
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality			
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Holloway Mine													
Operator Name	St Andrew Goldfields Ltd.													
Product(s)	Gold													
Address	Highway 101E of Matheson, West of Québec border, Matheson, Ontario P2N 3H7													
Effluent Discharge Point	Final Discharge Point													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	0.0020	0.0010	0.0018	0.0015	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	0.1300	0.0600	0.0560	0.0667	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	0.0010	0.0030	0.0026	0.0017	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	0.0005	0.0005	0.0005	0.0005	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	0.0800	0.0550	0.0560	0.0600	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	0.0030	0.0018	0.0032	0.0022	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	3.70	1.65	1.27	1.00	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	0.0025	0.0025	0.0025	0.0025	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	7.5	7.7	7.4	7.7	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	7.5	7.7	7.7	8.0	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	139,079	799,550	1,338,411	293,802	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	1	1	1	1	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	-	1	1	1	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	1	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Horne (Smelter)													
Operator Name	Xstrata Canada Corporation / Glencore Canada Corporation													
Product(s)	Copper													
Address	P.O. Box 4000, Rouyn-Noranda, Quebec J9X 5B6													
Effluent Discharge Point	Final Effluent – Pelletier Sector													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0027	0.0010	0.0009	0.0015	0.0014	0.0013	
Cu (mg/L)	0.3	0.0215	0.0190	0.0165	0.0342	0.0283	0.0188	0.0074	0.0083	0.0096	0.0186	0.0410	0.0246	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0050	0.0050	0.0063	0.0080	0.0063	0.0050	0.0024	0.0013	0.0013	0.0096	0.0057	0.0045	
Ni (mg/L)	0.5	0.0075	0.0063	0.0050	0.0080	0.0050	0.0050	0.0036	0.0026	0.0041	0.0082	0.0122	0.0119	
Zn (mg/L)	0.5	0.2970	0.3155	0.2368	0.3318	0.1410	0.0990	0.0200	0.0216	0.0608	0.1928	0.4730	0.4266	
TSS (mg/L)	15	11.75	9.00	10.25	9.00	5.25	2.50	2.20	1.00	1.40	3.75	7.75	8.20	
Ra-226 (Bq/L)	0.37	NMR	0.0100	NMR	NMR	0.0100	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	
pH low	≥ 6.0	6.8	6.9	7.0	7.0	7.4	7.5	7.3	7.5	7.5	7.6	7.3	6.9	
pH high	≤ 9.5	7.0	7.1	7.1	7.4	8.0	7.8	7.6	8.1	7.8	7.9	7.5	7.6	
Flow (m3/month)	—	83,452	75,376	83,452	1,192,229	8,030,085	552,818	61,008	65,844	77,700	67,115	66,720	54,467	
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	As of July 30, 2013, the ownership of Horne Smelter was transferred from Xstrata Canada Corporation to Glencore Canada Corporation.													
Notes:	ND: No Deposit	NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
	Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
	A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Huckleberry Mine													
Operator Name	Huckleberry Mines Ltd.													
Product(s)	Copper-Molybdenum-Gold-Silver													
Address	P.O. Box 3000, Houston, British Columbia V0J 1Z0													
Effluent Discharge Point	Hu.EZDD – East Zone Diversion Ditch													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	No annual report was submitted for 2013. This data has been compiled from the submitted quarterly reports.													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Huckleberry Mine													
Operator Name	Huckleberry Mines Ltd.													
Product(s)	Copper-Molybdenum-Gold-Silver													
Address	P.O. Box 3000, Houston, British Columbia V0J 1Z0													
Effluent Discharge Point	Hu.SC3 – Sediment Control Structure 3													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0006	0.0007	0.0008	0.0007	0.0008	0.0012	0.0012	0.0011	0.0010	0.0007	0.0005	0.0005	
Cu (mg/L)	0.3	0.0200	0.0204	0.0209	0.0301	0.0248	0.0184	0.0129	0.0110	0.0134	0.0099	0.0098	0.0133	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0003	0.0000	0.0000	0.0000	0.0000	0.0002	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	
Ni (mg/L)	0.5	0.0009	0.0011	0.0008	0.0008	0.0007	0.0006	0.0006	0.0006	0.0026	0.0008	0.0008	0.0010	
Zn (mg/L)	0.5	0.0194	0.0175	0.0163	0.0141	0.0091	0.0089	0.0086	0.0078	0.0084	0.0087	0.0088	0.0181	
TSS (mg/L)	15	0.50	0.50	0.50	0.66	1.35	0.80	0.50	0.50	0.86	0.50	0.50	0.50	
Ra-226 (Bq/L)	0.37	0.0060	NMR	NMR	0.0050	NMR	NMR	0.9000	0.5500	0.5500	0.5500	0.5500	0.5500	
pH low	≥ 6.0	7.8	7.6	7.8	7.8	7.8	7.8	7.8	7.8	7.9	7.9	7.8	7.7	
pH high	≤ 9.5	8.0	7.9	7.9	8.0	8.0	7.9	7.9	8.0	8.0	8.0	8.0	7.9	
Flow (m3/month)	—	8,211	8,332	7,898	30,390	25,284	12,902	101,653	9,130	2,563	80,350	7,572	6,712	
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	No annual report was submitted for 2013. This data has been compiled from the submitted quarterly reports.													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Huckleberry Mine													
Operator Name	Huckleberry Mines Ltd.													
Product(s)	Copper-Molybdenum-Gold-Silver													
Address	P.O. Box 3000, Houston, British Columbia V0J 1Z0													
Effluent Discharge Point	Hu.SC4 – Sediment Control Structure 4													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0009	0.0009	0.0009	0.0008	0.0006	0.0011	0.0011	0.0009	0.0008	0.0007	0.0007	0.0007	
Cu (mg/L)	0.3	0.0221	0.0172	0.0234	0.0434	0.0146	0.0101	0.0063	0.0061	0.0061	0.0073	0.0067	0.0128	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0001	0.0000	0.0000	0.0000	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	
Ni (mg/L)	0.5	0.0048	0.0034	0.0045	0.0079	0.0023	0.0032	0.0022	0.0023	0.0025	0.0030	0.0027	0.0041	
Zn (mg/L)	0.5	0.0063	0.0045	0.0067	0.0101	0.0040	0.0046	0.0044	0.0041	0.0040	0.0048	0.0048	0.0061	
TSS (mg/L)	15	1.40	1.55	0.85	3.20	4.38	1.88	0.75	0.90	1.18	0.65	0.65	0.68	
Ra-226 (Bq/L)	0.37	0.0025	NMR	NMR	0.0025	NMR	NMR	0.3500	0.0500	0.0500	0.0500	0.0500	0.0500	
pH low	≥ 6.0	7.8	7.6	7.8	7.7	7.6	7.8	7.8	7.8	7.8	7.8	7.8	7.5	
pH high	≤ 9.5	8.0	8.0	7.8	8.0	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	
Flow (m3/month)	—	146,373	142,402	93,233	106,941	155,357	70,007	90,553	39,482	64,348	29,356	1,369	145	
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	No annual report was submitted for 2013. This data has been compiled from the submitted quarterly reports.													
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Huckleberry Mine												
Operator Name	Huckleberry Mines Ltd.												
Product(s)	Copper-Molybdenum-Gold-Silver												
Address	P.O. Box 3000, Houston, British Columbia V0J 1Z0												
Effluent Discharge Point	HU.SC6 - Sediment Control Structure 6												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No annual report was submitted for 2013. This data has been compiled from the submitted quarterly reports.												
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Huckleberry Mine													
Operator Name	Huckleberry Mines Ltd.													
Product(s)	Copper-Molybdenum-Gold-Silver													
Address	P.O. Box 3000, Houston, British Columbia V0J 1Z0													
Effluent Discharge Point	HU.SC7 - Sediment Control Structure 7													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	0.0007	-	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	0.0025	-	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	NMR	-	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	0.0002	-	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	0.0008	-	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	0.0052	-	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	10.95	-	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	0.0053	-	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	7.3	-	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	7.5	-	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	4,679	246	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	1	-	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	1	-	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	No annual report was submitted for 2013. This data has been compiled from the submitted quarterly reports. Only flow measurement was provided for May													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Huckleberry Mine													
Operator Name	Huckleberry Mines Ltd.													
Product(s)	Copper-Molybdenum-Gold-Silver													
Address	P.O. Box 3000, Houston, British Columbia V0J 1Z0													
Effluent Discharge Point	HU.SC8 - Sediment Control Structure 8													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0012	0.0012	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	0.0029	0.0016	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	NMR	NMR	NMR	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	0.0001	0.0000	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	0.0006	0.0005	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	0.0013	0.0009	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	2.80	3.13	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	0.0040	NMR	NMR	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	7.5	7.4	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	8.0	8.1	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	5,261	7,118	589	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	1	1	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	1	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	No annual report was submitted for 2013. This data has been compiled from the submitted quarterly reports. Only flow measurement was provided for March													
Notes:	ND: No Deposit	NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
	Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
	A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Huckleberry Mine												
Operator Name	Huckleberry Mines Ltd.												
Product(s)	Copper-Molybdenum-Gold-Silver												
Address	P.O. Box 3000, Houston, British Columbia V0J 1Z0												
Effluent Discharge Point	Hu.TRO - Tahtsa Reach Outfall												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0007	-	ND	ND	0.0003	0.0007	0.0006	-	-	-	ND	ND
Cu (mg/L)	0.3	0.0114	-	ND	ND	0.0308	0.0003	0.0002	-	-	-	ND	ND
CN (mg/L)	1.0	NMR	NMR	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	ND	ND
Pb (mg/L)	0.2	0.0056	-	ND	ND	0.0001	0.0000	0.0001	-	-	-	ND	ND
Ni (mg/L)	0.5	0.0035	-	ND	ND	0.0026	0.0003	0.0005	-	-	-	ND	ND
Zn (mg/L)	0.5	0.0029	-	ND	ND	0.0133	0.0013	0.0005	-	-	-	ND	ND
TSS (mg/L)	15	2.52	-	ND	ND	4.30	6.65	12.80	-	-	-	ND	ND
Ra-226 (Bq/L)	0.37	0.0025	NMR	ND	ND	-	-	0.1000	-	-	-	ND	ND
pH low	≥ 6.0	7.1	-	ND	ND	7.9	7.4	7.4	-	-	-	ND	ND
pH high	≤ 9.5	7.8	-	ND	ND	7.9	8.2	7.5	-	-	-	ND	ND
Flow (m3/month)	—	382,405	24,090	ND	ND	44,442	270,713	422,930	150,590	61,870	2,410	ND	ND
Rainbow Trout	Pass	1	NMR	ND	ND	NMR	1	-	-	-	-	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	ND	ND	NMR	1	-	-	-	-	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No annual report was submitted for 2013. This data has been compiled from the submitted quarterly reports. Only flow measurement was provided for February, August, September and October. No radium 226 results were provided for the second and fourth quarters. No toxicity test results were provided for the third and fourth quarters.												
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Iron Ore Company of Canada – Carol Project													
Operator Name	Iron Ore Company of Canada													
Product(s)	Iron													
Address	P.O. Box 1000, Labrador City, Newfoundland and Labrador A2V 2L8													
Effluent Discharge Point	Hakim Culvert													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0016	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	
Cu (mg/L)	0.3	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0003	0.0003	0.0003	0.0008	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	
Ni (mg/L)	0.5	0.0070	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	
Zn (mg/L)	0.5	0.0035	0.0025	0.0037	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0094	0.0245	0.0648	
TSS (mg/L)	15	1.75	1.40	0.50	1.50	1.40	1.95	0.70	3.98	6.36	1.30	1.83	1.14	
Ra-226 (Bq/L)	0.37	0.0050	0.0200	0.0200	0.0050	NMR	NMR	NMR	NMR	0.0050	NMR	0.0050	0.0100	
pH low	≥ 6.0	8.0	8.0	8.1	7.9	7.9	8.0	8.0	8.0	8.1	7.9	7.7	7.8	
pH high	≤ 9.5	8.2	8.1	8.2	8.1	8.0	8.1	8.1	8.2	8.2	8.1	8.0	8.0	
Flow (m3/month)	—	282,887	418,979	569,034	818,708	982,560	737,596	564,200	598,522	1,004,431	722,932	711,451	640,459	
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	2	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	2	1	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Iron Ore Company of Canada – Carol Project											
Operator Name		Iron Ore Company of Canada											
Product(s)		Iron											
Address		P.O. Box 1000, Labrador City, Newfoundland and Labrador A2V 2L8											
Effluent Discharge Point		Julienne Narrows											
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Cu (mg/L)	0.3	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0013	0.0010	0.0012	0.0010	0.0010	0.0010
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0003	0.0003	0.0006	0.0003	0.0003	0.0003	0.0003	0.0003	0.0007	0.0003	0.0003	0.0003
Ni (mg/L)	0.5	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
Zn (mg/L)	0.5	0.0594	0.0037	0.0025	0.0042	0.0025	0.0033	0.0093	0.0037	0.0056	0.0025	0.0025	0.0025
TSS (mg/L)	15	0.50	0.73	0.78	0.60	0.53	0.63	1.82	1.13	0.64	0.63	1.70	0.72
Ra-226 (Bq/L)	0.37	0.0100	0.0400	0.0050	0.0200	NMR	NMR	NMR	NMR	0.0050	NMR	0.0050	0.0050
pH low	≥ 6.0	7.9	7.8	7.8	7.7	7.3	7.6	7.9	7.8	7.8	7.8	7.8	7.8
pH high	≤ 9.5	8.0	8.0	8.0	7.9	7.8	7.8	7.9	8.1	8.3	7.9	7.8	7.8
Flow (m3/month)	—	175,363,776	73,265,472	66,451,104	37,538,880	116,324,822	221,163,360	143,991,675	115,248,201	108,935,930	95,726,016	90,740,736	83,378,592
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Iron Ore Company of Canada – Carol Project													
Operator Name	Iron Ore Company of Canada													
Product(s)	Iron													
Address	P.O. Box 1000, Labrador City, Newfoundland and Labrador A2V 2L8													
Effluent Discharge Point	MD5													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	0.0011	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	NMR	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	0.0073	0.0010	0.0010	0.0010	0.0010	0.0010	0.0015	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	0.0105	0.0032	0.0025	0.0032	0.0034	0.0033	0.0035	ND	
TSS (mg/L)	15	ND	ND	ND	ND	7.30	3.00	3.84	4.40	5.15	2.60	3.07	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	NMR	0.0050	NMR	NMR	0.0050	NMR	0.0050	ND	
pH low	≥ 6.0	ND	ND	ND	ND	7.4	7.5	7.7	7.6	7.8	7.6	7.7	ND	
pH high	≤ 9.5	ND	ND	ND	ND	7.6	7.8	8.0	7.9	8.0	7.8	7.9	ND	
Flow (m3/month)	—	ND	ND	ND	ND	16,727	7,539	1,233	4,363	1,282	1,983	1,586	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	1	1	1	1	1	1	1	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	1	1	1	1	1	1	1	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Iron Ore Company of Canada – Carol Project												
Operator Name	Iron Ore Company of Canada												
Product(s)	Iron												
Address	P.O. Box 1000, Labrador City, Newfoundland and Labrador A2V 2L8												
Effluent Discharge Point	MD30												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	0.0005	0.0005
Cu (mg/L)	0.3	-	-	-	-	-	-	-	-	-	-	0.0010	0.0010
CN (mg/L)	1.0	-	-	-	-	-	-	-	-	-	-	NMR	NMR
Pb (mg/L)	0.2	-	-	-	-	-	-	-	-	-	-	0.0003	0.0003
Ni (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	0.0017	0.0010
Zn (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	0.0038	0.0032
TSS (mg/L)	15	-	-	-	-	-	-	-	-	-	-	4.67	0.50
Ra-226 (Bq/L)	0.37	-	-	-	-	-	-	-	-	-	-	0.0050	0.0050
pH low	≥ 6.0	-	-	-	-	-	-	-	-	-	-	7.4	7.3
pH high	≤ 9.5	-	-	-	-	-	-	-	-	-	-	7.5	7.6
Flow (m3/month)	—	-	-	-	-	-	-	-	-	-	-	6,610	7,529
Rainbow Trout	Pass	-	-	-	-	-	-	-	-	-	-	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	-	-	-	-	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	This final discharge point became subject to the MMER in November 2013.												
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Island Gold Project													
Operator Name	Richmont Mines Inc.													
Product(s)	Gold													
Address	15 Goudreau Road, P.O. Box 456, Dubreuilville, Ontario P0S 1B0													
Effluent Discharge Point	IG-2													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	0.0012	0.0016	0.0610	0.0428	ND	0.0808	0.0150	0.0137	0.0285	0.0170	
Cu (mg/L)	0.3	ND	ND	0.0021	0.0020	0.1240	0.0475	ND	0.0056	0.0062	0.0057	0.0098	0.0071	
CN (mg/L)	1.0	ND	ND	0.0140	0.0153	0.9600	0.0628	ND	0.0056	0.0092	0.0076	0.0405	0.0330	
Pb (mg/L)	0.2	ND	ND	0.0003	0.0003	0.0003	0.0012	ND	0.0002	0.0003	0.0003	0.0003	0.0005	
Ni (mg/L)	0.5	ND	ND	0.0026	0.0025	0.0370	0.0215	ND	0.0033	0.0038	0.0047	0.0130	0.0091	
Zn (mg/L)	0.5	ND	ND	0.0055	0.0025	0.0043	0.0025	ND	0.0025	0.0025	0.0025	0.0047	0.0078	
TSS (mg/L)	15	ND	ND	1.00	7.00	5.67	6.75	ND	0.63	2.00	1.83	5.00	15.50	
Ra-226 (Bq/L)	0.37	ND	ND	-	NMR	0.0050	NMR	ND	NMR	0.0050	0.0050	0.0050	NMR	
pH low	≥ 6.0	ND	ND	7.8	7.8	7.7	7.9	ND	8.3	8.3	7.6	7.4	7.5	
pH high	≤ 9.5	ND	ND	7.8	7.8	8.0	8.0	ND	8.6	8.5	7.8	7.4	7.8	
Flow (m3/month)	—	ND	ND	69,494	249,263	322,286	431,101	ND	284,185	107,992	426,314	255,873	21,537	
Rainbow Trout	Pass	ND	ND	-	1	1	1	ND	1	-	1	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	-	1	1	1	ND	1	-	1	1	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	No radium 226 test results were reported for the first quarter. No toxicity test results were provided for March and September.													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	James Mine													
Operator Name	Labrador Iron Mines Ltd.													
Product(s)	Iron													
Address	3 km E of Schefferville, Schefferville, Newfoundland and Labrador M5J 2W4													
Effluent Discharge Point	Ruth Pit Outlet													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0006	0.0005	0.0005	0.0005	0.0005	
Cu (mg/L)	0.3	0.0006	0.0005	0.0005	0.0007	0.0005	0.0005	0.0005	0.0005	0.0006	0.0007	0.0005	0.0005	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	
Ni (mg/L)	0.5	0.0010	0.0010	0.0014	0.0010	0.0010	0.0010	0.0010	0.0010	0.0015	0.0010	0.0010	0.0010	
Zn (mg/L)	0.5	0.0086	0.0035	0.0035	0.0082	0.0035	0.0116	0.0052	0.0035	0.0035	0.0035	0.0061	0.0035	
TSS (mg/L)	15	1.00	2.33	1.00	1.40	4.00	2.75	1.40	6.40	1.80	1.75	1.50	1.80	
Ra-226 (Bq/L)	0.37	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0016	0.0013	0.0013	0.0010	0.0010	
pH low	≥ 6.0	6.4	7.7	7.1	7.1	7.6	6.9	7.2	7.8	7.6	7.5	7.8	7.9	
pH high	≤ 9.5	7.7	8.0	7.8	8.0	7.9	7.7	8.2	8.1	8.0	8.1	8.0	8.0	
Flow (m3/month)	—	233,021	179,021	186,595	199,584	783,516	719,470	385,816	487,063	404,693	487,063	404,693	487,063	
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Jolu Mill												
Operator Name	Golden Band Resources Inc.												
Product(s)	Gold-Copper												
Address	2911 - D, Cleveland Avenue, Saskatoon, Saskatchewan S7K 8A9												
Effluent Discharge Point	Mallard Tailings Management Facility - Cell C Outlet Berm												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	0.0005	0.0011	0.0011	0.0015	0.0017	0.0014	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	0.0155	0.0367	0.0398	0.0505	0.0635	0.0625	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	0.0035	0.0150	0.0146	0.0130	0.0190	0.0275	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	0.0006	0.0013	0.0021	0.0039	0.0052	0.0038	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	0.0062	0.0075	0.0065	0.0078	0.0099	0.0097	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	0.0052	0.0031	0.0032	0.0023	0.0026	0.0027	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	8.00	5.33	3.80	1.75	3.00	2.00	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	0.0100	NMR	0.0025	0.0025	0.0100	0.0100	ND	ND
pH low	≥ 6.0	ND	ND	ND	ND	6.1	7.4	7.3	7.9	7.8	7.9	ND	ND
pH high	≤ 9.5	ND	ND	ND	ND	7.7	7.7	8.1	8.0	8.0	8.0	ND	ND
Flow (m3/month)	—	ND	ND	ND	ND	61,013	57,739	111,348	63,110	4,542	40,858	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	1	1	1	1	1	1	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	1	1	1	1	1	1	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Kemess South Mine												
Operator Name		AuRico Gold Inc.												
Product(s)		Gold-Copper												
Address		P.O. Box 3519, Smithers, British Columbia V0J 2N0												
Effluent Discharge Point		KS.WQ14 - Runoff												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0003	0.0003	0.0003	0.0003	0.0006	0.0004	0.0004	0.0004	0.0003	0.0003	0.0004	0.0003	
Cu (mg/L)	0.3	0.0012	0.0011	0.0013	0.0011	0.0025	0.0016	0.0016	0.0017	0.0013	0.0012	0.0011	0.0012	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Ni (mg/L)	0.5	0.0002	0.0002	0.0002	0.0002	0.0003	0.0059	0.0192	0.0020	0.0002	0.0002	0.0003	0.0002	
Zn (mg/L)	0.5	0.0003	0.0009	0.0009	0.0003	0.0010	0.0004	0.0005	0.0008	0.0022	0.0006	0.0004	0.0012	
TSS (mg/L)	15	2.44	1.53	1.73	2.30	4.73	1.05	1.60	0.50	0.80	1.44	1.65	1.22	
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0300	NMR	0.0200	NMR	NMR	0.0050	NMR	0.0050	NMR	NMR	
pH low	≥ 6.0	8.0	8.1	8.1	8.1	7.9	8.1	8.1	8.2	8.2	8.2	8.3	8.2	
pH high	≤ 9.5	8.2	8.3	8.3	8.3	8.3	8.3	8.4	8.4	8.4	8.4	8.4	8.4	
Flow (m3/month)	—	21,749	19,293	17,878	20,425	434,035	83,203	134,027	40,042	26,050	45,104	40,046	20,784	
Rainbow Trout	Pass	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR	1	NMR	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Kemess South Mine												
Operator Name	AuRico Gold Inc.												
Product(s)	Gold-Copper												
Address	P.O. Box 3519, Smithers, British Columbia V0J 2N0												
Effluent Discharge Point	KS.WQBXL – Sedimentation Pond Decant												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	0.0003	0.0003	0.0004	0.0005	ND	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	0.0019	0.0016	0.0015	0.0017	ND	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	NMR	NMR	NMR	NMR	ND	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	0.0000	0.0000	0.0001	0.0001	ND	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	0.0002	0.0030	0.0072	0.0014	ND	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	0.0021	0.0018	0.0017	0.0031	ND	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	1.47	1.80	2.22	3.20	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	0.0100	0.0050	0.0100	NMR	ND	ND	ND	ND
pH low	≥ 6.0	ND	ND	ND	ND	8.1	8.1	8.1	7.0	ND	ND	ND	ND
pH high	≤ 9.5	ND	ND	ND	ND	8.2	8.2	8.2	8.3	ND	ND	ND	ND
Flow (m3/month)	—	ND	ND	ND	ND	2,569	1,594	2,384	216	ND	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	1	1	1	-	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	1	1	1	-	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No toxicity test results were provided for the month of August.												
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Kemess South Mine													
Operator Name	AuRico Gold Inc.													
Product(s)	Gold-Copper													
Address	P.O. Box 3519, Smithers, British Columbia V0J 2N0													
Effluent Discharge Point	KS.WQ-TSP - Tailings Sedimentation Pond													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	-	-	-	-	-	-	-	-	0.0007	0.0006	0.0006	0.0006	
Cu (mg/L)	0.3	-	-	-	-	-	-	-	-	0.0015	0.0014	0.0012	0.0013	
CN (mg/L)	1.0	-	-	-	-	-	-	-	-	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	-	-	-	-	-	-	-	-	0.0000	0.0000	0.0000	0.0000	
Ni (mg/L)	0.5	-	-	-	-	-	-	-	-	0.0003	0.0003	0.0003	0.0003	
Zn (mg/L)	0.5	-	-	-	-	-	-	-	-	0.0006	0.0006	0.0003	0.0006	
TSS (mg/L)	15	-	-	-	-	-	-	-	-	1.53	1.06	0.50	0.50	
Ra-226 (Bq/L)	0.37	-	-	-	-	-	-	-	-	0.0050	0.0050	0.0050	0.0045	
pH low	≥ 6.0	-	-	-	-	-	-	-	-	8.2	8.1	8.1	8.0	
pH high	≤ 9.5	-	-	-	-	-	-	-	-	8.3	8.3	8.3	8.2	
Flow (m3/month)	—	-	-	-	-	-	-	-	-	364,178	481,547	449,194	434,040	
Rainbow Trout	Pass	-	-	-	-	-	-	-	-	1	1	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	-	-	1	1	1	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	This final discharge point became subject to the MMER in September 2013.													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Key Lake Operation												
Operator Name	Cameco Corporation												
Product(s)	Uranium												
Address	P.O. Box 3519, Smithers, British Columbia V0J 2N0												
Effluent Discharge Point	Station 1.2 – Dewatering Discharge to Horsefly Lake												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Cu (mg/L)	0.3	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Ni (mg/L)	0.5	0.0218	0.0315	0.0328	0.0286	0.0365	0.0320	0.0326	0.0313	0.0288	0.0270	0.0260	0.0202
Zn (mg/L)	0.5	0.0013	0.0015	0.0021	0.0019	0.0017	0.0016	0.0029	0.0012	0.0063	0.0016	0.0017	0.0015
TSS (mg/L)	15	0.13	0.15	0.13	0.16	0.15	0.18	0.16	0.10	0.10	0.10	0.13	0.10
Ra-226 (Bq/L)	0.37	0.0034	0.0036	0.0039	0.0050	0.0058	0.0045	0.0047	0.0059	0.0025	0.0031	0.0053	0.0055
pH low	≥ 6.0	6.3	6.0	6.2	6.3	6.5	6.1	6.1	6.2	6.2	6.4	6.1	6.2
pH high	≤ 9.5	6.4	6.5	6.7	6.8	6.9	6.6	6.7	6.7	6.9	6.5	7.1	8.2
Flow (m3/month)	—	488,871	374,557	488,279	443,989	124,201	343,835	378,812	387,791	342,263	361,000	406,817	186,246
Rainbow Trout	Pass	NMR	NMR	1	NMR	NMR	1	NMR	NMR	2	NMR	NMR	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	NMR	1	-	-	-	1	NMR	2	NMR	NMR	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No <i>Daphnia magna</i> monitoring results were provided for the second quarter.												
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality			
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Key Lake Operation												
Operator Name		Cameco Corporation												
Product(s)		Uranium												
Address		2121-11th Street West, Saskatoon, Saskatchewan S7M 1J3												
Effluent Discharge Point		Station 1.4 – Mill Effluent to Wolf Lake												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0096	0.0076	0.0061	0.0070	0.0076	0.0090	0.0099	0.0125	0.0130	0.0078	0.0091	0.0071	
Cu (mg/L)	0.3	0.0092	0.0168	0.0133	0.0138	0.0078	0.0058	0.0085	0.0092	0.0085	0.0234	0.0072	0.0080	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0003	0.0005	0.0009	0.0004	0.0003	0.0002	0.0003	0.0002	0.0005	0.0003	0.0002	0.0003	
Ni (mg/L)	0.5	0.0628	0.0715	0.0743	0.0760	0.0440	0.1163	0.0772	0.0663	0.0493	0.0548	0.0445	0.0458	
Zn (mg/L)	0.5	0.0044	0.0045	0.0074	0.0047	0.0041	0.0062	0.0040	0.0033	0.0040	0.0032	0.0024	0.0031	
TSS (mg/L)	15	0.95	0.73	1.00	0.58	0.80	3.75	4.30	1.20	1.40	2.04	1.25	1.05	
Ra-226 (Bq/L)	0.37	0.0125	0.0150	0.0175	0.0200	0.0200	0.0825	0.0290	0.0063	0.0125	0.0100	0.0163	0.0119	
pH low	≥ 6.0	6.2	6.1	6.1	6.1	6.2	6.1	6.3	6.2	6.1	6.1	6.1	6.1	
pH high	≤ 9.5	6.3	6.3	6.4	6.3	6.2	6.6	6.5	6.3	6.3	6.4	6.3	6.3	
Flow (m3/month)	—	120,750	132,495	96,289	84,537	37,252	93,932	129,810	120,410	103,789	107,410	126,793	64,739	
Rainbow Trout	Pass	NMR	NMR	1	NMR	NMR	1	NMR	NMR	2	NMR	1	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	NMR	-	NMR	NMR	1	NMR	1	NMR	
Monitoring Test	Fail	-	-	-	-	-	1	-	-	1	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Kidd Metallurgical Division												
Operator Name		Xstrata Canada Corporation / Glencore Canada Corporation												
Product(s)		Zinc-Copper-Silver-Lead-Cadmium-Indium-Cobalt-Selenium-Palladium-Platinum												
Address		10050 Highway 101 East, Hoyle Township, Timmins, Ontario P4N 7K1												
Effluent Discharge Point		Final Effluent Monitoring Point												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0005	0.0007	0.0004	0.0004	0.0007	0.0010	0.0010	0.0006	0.0008	0.0004	0.0003	0.0003	
Cu (mg/L)	0.3	0.0015	0.0050	0.0045	0.0052	0.0050	0.0060	0.0096	0.0070	0.0074	0.0070	0.0068	0.0022	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0025	0.0015	0.0013	0.0010	0.0015	0.0018	0.0018	0.0010	0.0010	0.0013	0.0023	0.0012	
Ni (mg/L)	0.5	0.0013	0.0025	0.0033	0.0012	0.0020	0.0015	0.0028	0.0020	0.0014	0.0035	0.0023	0.0018	
Zn (mg/L)	0.5	0.0215	0.0325	0.0450	0.0442	0.0308	0.0115	0.0252	0.0123	0.0202	0.0255	0.0268	0.0302	
TSS (mg/L)	15	2.00	1.50	1.25	1.40	1.25	1.50	1.60	1.25	0.90	1.00	1.00	0.90	
Ra-226 (Bq/L)	0.37	NMR	0.0300	NMR	NMR	0.0100	NMR	NMR	0.0050	NMR	NMR	0.0025	NMR	
pH low	≥ 6.0	7.7	7.7	7.5	7.2	7.9	8.3	7.7	8.1	7.8	7.3	7.1	7.5	
pH high	≤ 9.5	8.0	7.8	7.8	8.0	8.2	8.6	8.7	8.5	9.0	8.2	8.7	7.8	
Flow (m3/month)	—	879,890	597,530	616,490	3,242,060	2,877,050	1,282,260	865,510	1,930,480	1,854,240	1,111,220	2,069,200	716,800	
Rainbow Trout	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:		As of July 30, 2013, the ownership of Kidd Metallurgical Division was transferred from Xstrata Canada Corporation to Glencore Canada Corporation.												
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
		Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.												
		A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Kidd Mining Division													
Operator Name	Xstrata Canada Corporation / Glencore Canada Corporation													
Product(s)	Zinc-Copper-Silver-Lead-Cadmium-Indium-Cobalt-Selenium-Palladium-Platinum													
Address	Highway 655 North, Timmins, Ontario P4N 7K1													
Effluent Discharge Point	Treatment Pond Final Effluent													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	0.0015	0.0014	0.0008	0.0010	0.0014	0.0012	ND	0.0009	0.0011	0.0008	
Cu (mg/L)	0.3	ND	ND	0.0077	0.0069	0.0102	0.0082	0.0062	0.0085	ND	0.0039	0.0106	0.0063	
CN (mg/L)	1.0	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	ND	NMR	NMR	NMR	
Pb (mg/L)	0.2	ND	ND	0.0001	0.0007	0.0003	0.0002	0.0003	0.0002	ND	0.0001	0.0001	0.0001	
Ni (mg/L)	0.5	ND	ND	0.0024	0.0020	0.0014	0.0017	0.0017	0.0026	ND	0.0026	0.0029	0.0009	
Zn (mg/L)	0.5	ND	ND	0.0474	0.1177	0.0985	0.0987	0.0575	0.0805	ND	0.0220	0.1103	0.0340	
TSS (mg/L)	15	ND	ND	3.00	1.00	1.75	1.33	1.50	1.00	ND	0.50	1.50	2.00	
Ra-226 (Bq/L)	0.37	ND	ND	0.0050	NMR	0.0100	NMR	0.0050	NMR	ND	NMR	0.0050	NMR	
pH low	≥ 6.0	ND	ND	6.9	6.9	6.9	7.6	7.3	7.1	ND	6.8	6.5	8.1	
pH high	≤ 9.5	ND	ND	7.5	7.1	8.3	7.7	7.7	7.5	ND	6.8	7.9	8.1	
Flow (m3/month)	—	ND	ND	521,664	487,660	2,279,050	409,650	290,880	905,360	ND	159,990	1,769,020	99,900	
Rainbow Trout	Pass	ND	ND	1	NMR	1	NMR	1	NMR	ND	NMR	1	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	1	NMR	1	NMR	1	NMR	ND	NMR	1	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	As of July 30, 2013, the ownership of Kidd Mining Division was transferred from Xstrata Canada Corporation to Glencore Canada Corporation.													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Kiena (Mine)													
Operator Name	Mines d'Or Wesdome Ltée													
Product(s)	Gold													
Address	950 Kienawisik Road, Val-d'Or, Quebec J9P 4P3													
Effluent Discharge Point	Final Effluent													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	0.0005	0.0005	0.0005	ND	0.0010	0.0011	0.0005	0.0005	ND	
Cu (mg/L)	0.3	ND	ND	ND	0.0216	0.0053	0.0070	ND	0.0017	0.0083	0.0052	0.0054	ND	
CN (mg/L)	1.0	ND	ND	ND	0.0180	0.0028	0.0015	ND	0.0033	0.0064	0.0015	0.0038	ND	
Pb (mg/L)	0.2	ND	ND	ND	0.0005	0.0003	0.0003	ND	0.0003	0.0004	0.0003	0.0007	ND	
Ni (mg/L)	0.5	ND	ND	ND	0.0266	0.0140	0.0140	ND	0.0069	0.0598	0.0620	0.0570	ND	
Zn (mg/L)	0.5	ND	ND	ND	0.0146	0.0035	0.0035	ND	0.0035	0.0095	0.0035	0.0247	ND	
TSS (mg/L)	15	ND	ND	ND	6.80	3.50	8.00	ND	2.50	2.60	3.00	1.33	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	0.0010	NMR	NMR	ND	0.0010	NMR	0.0040	NMR	ND	
pH low	≥ 6.0	ND	ND	ND	7.2	7.8	7.8	ND	7.6	7.6	7.7	7.8	ND	
pH high	≤ 9.5	ND	ND	ND	7.4	8.0	7.8	ND	7.7	8.0	7.7	8.1	ND	
Flow (m3/month)	—	ND	ND	ND	119,026	23,656	47,119	ND	48,247	193,438	43,446	205,638	ND	
Rainbow Trout	Pass	ND	ND	ND	1	-	1	ND	1	1	1	1	ND	
Acute Lethality Test	Fail	-	-	-	-	1	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	1	1	1	ND	1	1	1	1	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Lac Bachelor													
Operator Name	Ressources Métanor Inc.													
Product(s)	Gold													
Address	200 Mine Road, Desmaraisville, Quebec J0Y 1H0													
Effluent Discharge Point	Parshall Flume													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0008	0.0005	0.0005	0.0005	0.0005	0.0005	
Cu (mg/L)	0.3	0.0035	0.1003	0.2015	0.0134	0.0135	0.0173	0.0302	0.0410	0.0394	0.0383	0.1048	0.0040	
CN (mg/L)	1.0	0.0480	0.3698	0.7625	0.1678	0.0400	0.0350	0.0526	0.0650	0.0740	0.1875	0.5100	0.0820	
Pb (mg/L)	0.2	0.0006	0.0008	0.0011	0.0024	0.0014	0.0011	0.0018	0.0023	0.0020	0.0018	0.0016	0.0011	
Ni (mg/L)	0.5	0.0015	0.0058	0.0098	0.0022	0.0033	0.0028	0.0027	0.0038	0.0034	0.0038	0.0045	0.0022	
Zn (mg/L)	0.5	0.0118	0.0110	0.0110	0.0144	0.0110	0.0190	0.0113	0.0125	0.0100	0.0113	0.0125	0.0226	
TSS (mg/L)	15	2.64	3.58	3.00	4.38	3.61	2.79	3.32	3.85	3.23	4.07	4.17	3.88	
Ra-226 (Bq/L)	0.37	NMR	0.0180	NMR	NMR	0.0060	NMR	NMR	0.0030	NMR	NMR	0.0170	NMR	
pH low	≥ 6.0	7.5	7.4	7.5	7.5	7.8	7.9	8.0	7.9	7.9	7.7	7.9	7.6	
pH high	≤ 9.5	7.9	7.9	7.9	8.0	8.1	8.1	8.2	8.1	8.2	8.2	8.2	8.0	
Flow (m3/month)	—	24,846	15,751	21,822	47,207	67,400	90,825	199,708	234,113	190,312	177,379	76,430	39,210	
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Lac Bloom (Mine)												
Operator Name	Société en commandite de la mine de fer du Lac Bloom												
Product(s)	Iron												
Address	P.O. Box 880, Route 389, Fermont, Quebec G1G 1J0												
Effluent Discharge Point	Mill Site - Surface Drainage Pond Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Cu (mg/L)	0.3	-	-	-	-	-	-	-	-	-	-	-	-
CN (mg/L)	1.0	-	-	-	-	-	-	-	-	-	-	-	-
Pb (mg/L)	0.2	-	-	-	-	-	-	-	-	-	-	-	-
Ni (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Zn (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
TSS (mg/L)	15	-	-	-	-	-	-	-	-	-	-	-	-
Ra-226 (Bq/L)	0.37	-	-	-	-	-	-	-	-	-	-	-	-
pH low	≥ 6.0	-	-	-	-	-	-	-	-	-	-	-	-
pH high	≤ 9.5	-	-	-	-	-	-	-	-	-	-	-	-
Flow (m3/month)	—	-	-	-	-	-	-	-	-	-	-	-	-
Rainbow Trout	Pass	-	-	-	-	-	-	-	-	-	-	-	-
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	-	-	-	-	-	-
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No annual report was submitted for 2013. This data has been compiled from the submitted quarterly reports. This final discharge point is no longer subject to the MMER.												
Notes:	ND: No Deposit			NMR: No Measurement Required			Pass: ≤50% Mortality			Fail: >50% Mortality			
	Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.												
	A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Lac Bloom (Mine)												
Operator Name	Société en commandite de la mine de fer du Lac Bloom												
Product(s)	Iron												
Address	P.O. Box 880, Route 389, Fermont, Quebec G1G 1J0												
Effluent Discharge Point	Mine Site - Surface Drainage Sedimentation Pond B2 Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Cu (mg/L)	0.3	-	-	-	-	-	-	-	-	-	-	-	-
CN (mg/L)	1.0	-	-	-	-	-	-	-	-	-	-	-	-
Pb (mg/L)	0.2	-	-	-	-	-	-	-	-	-	-	-	-
Ni (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Zn (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
TSS (mg/L)	15	-	-	-	-	-	-	-	-	-	-	-	-
Ra-226 (Bq/L)	0.37	-	-	-	-	-	-	-	-	-	-	-	-
pH low	≥ 6.0	-	-	-	-	-	-	-	-	-	-	-	-
pH high	≤ 9.5	-	-	-	-	-	-	-	-	-	-	-	-
Flow (m3/month)	—	-	-	-	-	-	-	-	-	-	-	-	-
Rainbow Trout	Pass	-	-	-	-	-	-	-	-	-	-	-	-
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	-	-	-	-	-	-
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No annual report was submitted for 2013. This data has been compiled from the submitted quarterly reports. This final discharge point is no longer subject to the MMER.												
Notes:	ND: No Deposit			NMR: No Measurement Required			Pass: ≤50% Mortality			Fail: >50% Mortality			
	Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.												
	A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Lac Bloom (Mine)												
Operator Name	Société en commandite de la mine de fer du Lac Bloom												
Product(s)	Iron												
Address	P.O. Box 880, Route 389, Fermont, Quebec G1G 1J0												
Effluent Discharge Point	Recirculation Pond Water Treatment Plant Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0005	ND	-	-	-	-
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	0.0008	ND	-	-	-	-
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	NMR	ND	-	-	-	-
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	0.0003	ND	-	-	-	-
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0023	ND	-	-	-	-
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0035	ND	-	-	-	-
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	5.00	ND	-	-	-	-
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	0.0020	ND	-	-	-	-
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	7.8	ND	-	-	-	-
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	7.9	ND	-	-	-	-
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	167,357	ND	-	-	-	-
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	1	ND	-	-	-	-
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	1	ND	-	-	-	-
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No annual report was submitted for 2013. This data has been compiled from the submitted quarterly reports. As of August 31, 2013, this final discharge point is no longer subject to the MMER.												
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Lac Bloom (Mine)													
Operator Name	Société en commandite de la mine de fer du Lac Bloom													
Product(s)	Iron													
Address	P.O. Box 880, Route 389, Fermont, Quebec G1G 1J0													
Effluent Discharge Point	EFF-MIN Mine Water Treatment Unit Effluent													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	No annual report was submitted for 2013. This data has been compiled from the submitted quarterly reports. As of August 31, 2013, this final discharge point is no longer subject to the MMER.													
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Lac Bloom (Mine)													
Operator Name	Société en commandite de la mine de fer du Lac Bloom													
Product(s)	Iron													
Address	P.O. Box 880, Route 389, Fermont, Quebec G1G 1J0													
Effluent Discharge Point	EFF-REC2 Mine Water and Recirculation Pond Treatment Unit Effluent													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	-	-	-	-	-	-	-	-	-	0.0009	0.0005	ND	
Cu (mg/L)	0.3	-	-	-	-	-	-	-	-	-	0.0018	0.0011	ND	
CN (mg/L)	1.0	-	-	-	-	-	-	-	-	-	NMR	NMR	ND	
Pb (mg/L)	0.2	-	-	-	-	-	-	-	-	-	0.0008	0.0003	ND	
Ni (mg/L)	0.5	-	-	-	-	-	-	-	-	-	0.0035	0.0039	ND	
Zn (mg/L)	0.5	-	-	-	-	-	-	-	-	-	0.0044	0.0035	ND	
TSS (mg/L)	15	-	-	-	-	-	-	-	-	-	7.25	5.67	ND	
Ra-226 (Bq/L)	0.37	-	-	-	-	-	-	-	-	-	0.0033	0.0010	ND	
pH low	≥ 6.0	-	-	-	-	-	-	-	-	-	7.5	7.4	ND	
pH high	≤ 9.5	-	-	-	-	-	-	-	-	-	7.9	7.8	ND	
Flow (m3/month)	—	-	-	-	-	-	-	-	-	-	851,915	1,400,714	ND	
Rainbow Trout	Pass	-	-	-	-	-	-	-	-	-	1	1	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	-	-	-	1	1	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	No annual report was submitted for 2013. This data has been compiled from the submitted quarterly reports. This final discharge point became subject to the MMER in October 2013.													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Lac des Iles Mine													
Operator Name	North American Palladium Ltd.													
Product(s)	Palladium-Platinum-Gold-Copper-Nickel-Cobalt													
Address	P.O. Box 10547, Thunder Bay, Ontario P7B 6T9													
Effluent Discharge Point	Final Discharge Point 1													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	0.0007	0.0001	0.0006	0.0006	0.0004	0.0003	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	0.0013	0.0011	0.0008	0.0014	0.0018	0.0009	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	0.0159	0.0126	0.0141	0.0136	0.0132	0.0114	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	0.0007	0.0003	0.0006	0.0004	0.0009	0.0002	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	4.98	6.44	5.73	2.13	5.90	9.75	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	7.6	7.5	7.8	7.4	7.4	7.5	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	8.1	7.9	7.8	7.9	7.6	7.6	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	126,503	213,758	182,600	55,414	74,696	103,087	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	1	1	1	1	1	1	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	1	1	1	1	1	1	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Lac des Iles Mine												
Operator Name	North American Palladium Ltd.												
Product(s)	Palladium-Platinum-Gold-Copper-Nickel-Cobalt												
Address	P.O. Box 10547, Thunder Bay, Ontario P7B 6T9												
Effluent Discharge Point	Final Discharge Point 2												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	-	-	-	-	-	-	-	-	-
Cu (mg/L)	0.3	ND	ND	ND	-	-	-	-	-	-	-	-	-
CN (mg/L)	1.0	ND	ND	ND	-	-	-	-	-	-	-	-	-
Pb (mg/L)	0.2	ND	ND	ND	-	-	-	-	-	-	-	-	-
Ni (mg/L)	0.5	ND	ND	ND	-	-	-	-	-	-	-	-	-
Zn (mg/L)	0.5	ND	ND	ND	-	-	-	-	-	-	-	-	-
TSS (mg/L)	15	ND	ND	ND	-	-	-	-	-	-	-	-	-
Ra-226 (Bq/L)	0.37	ND	ND	ND	-	-	-	-	-	-	-	-	-
pH low	≥ 6.0	ND	ND	ND	-	-	-	-	-	-	-	-	-
pH high	≤ 9.5	ND	ND	ND	-	-	-	-	-	-	-	-	-
Flow (m3/month)	—	ND	ND	ND	-	-	-	-	-	-	-	-	-
Rainbow Trout	Pass	ND	ND	ND	-	-	-	-	-	-	-	-	-
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	-	-	-	-	-	-	-	-	-
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	This final discharge point is no longer subject to the MMER.												
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Lac Herbin (Mine)													
Operator Name	QMX Gold Corporation													
Product(s)	Gold													
Address	1900 Brador Road, Val-d'Or, Quebec J9P 7A9													
Effluent Discharge Point	Final Effluent 1													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Lac Herbin (Mine)												
Operator Name	QMX Gold Corporation												
Product(s)	Gold												
Address	1900 Brador Road, Val-d'Or, Quebec J9P 7A9												
Effluent Discharge Point	Final Effluent 2												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	NMR	0.0007	NMR	NMR	0.0003	NMR	NMR	0.0003	NMR	NMR	0.0008	NMR
Cu (mg/L)	0.3	NMR	0.0003	NMR	NMR	0.0003	NMR	NMR	0.0003	NMR	NMR	0.0117	NMR
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	NMR	0.0067	NMR	NMR	0.0002	NMR	NMR	0.0050	NMR	NMR	0.0002	NMR
Ni (mg/L)	0.5	NMR	0.0019	NMR	NMR	0.0032	NMR	NMR	0.0038	NMR	NMR	0.0026	NMR
Zn (mg/L)	0.5	NMR	0.0060	NMR	NMR	0.0005	NMR	NMR	0.0520	NMR	NMR	0.0990	NMR
TSS (mg/L)	15	4.00	3.50	3.38	11.60	5.70	4.50	2.20	0.50	1.75	3.50	4.00	3.70
Ra-226 (Bq/L)	0.37	NMR	0.0030	NMR	NMR	0.0010	NMR	NMR	0.0020	NMR	NMR	0.0010	NMR
pH low	≥ 6.0	6.9	6.8	7.1	7.1	7.0	6.9	6.9	6.5	6.7	6.7	6.7	6.6
pH high	≤ 9.5	7.2	7.2	7.2	7.3	7.1	7.2	7.1	7.2	6.9	6.9	7.1	7.4
Flow (m3/month)	—	39,787	35,246	39,626	45,951	45,435	55,920	52,374	30,123	32,632	35,035	33,037	27,007
Rainbow Trout	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Langlois (Mine)												
Operator Name	Nyrstar												
Product(s)	Zinc-Copper-Gold-Silver												
Address	Route 1000, Km. 42, Lebel-sur-Quévillon, Quebec J0Y 1X0												
Effluent Discharge Point	Main Final Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0006	0.0008	0.0008	0.0011	0.0019	0.0020	0.0015	0.0010	0.0010	0.0018	0.0013	0.0009
Cu (mg/L)	0.3	0.0125	0.0140	0.0138	0.0108	0.0103	0.0093	0.0114	0.0110	0.0110	0.0120	0.0150	0.0130
CN (mg/L)	1.0	NMR	NMR	0.0020	NMR	NMR	0.0020	NMR	NMR	NMR	NMR	0.0020	NMR
Pb (mg/L)	0.2	0.0033	0.0033	0.0030	0.0028	0.0088	0.0043	0.0062	0.0060	0.0050	0.0048	0.0078	0.0064
Ni (mg/L)	0.5	0.0015	0.0035	0.0033	0.0013	0.0024	0.0009	0.0017	0.0005	0.0005	0.0006	0.0006	0.0006
Zn (mg/L)	0.5	0.1830	0.2433	0.1943	0.1494	0.1025	0.1273	0.1586	0.1575	0.1190	0.1490	0.1315	0.1282
TSS (mg/L)	15	2.28	2.20	2.20	2.20	2.55	2.48	2.20	2.20	2.20	2.20	2.48	2.20
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0025	NMR	NMR	0.0025	NMR	0.0025	NMR	NMR	0.0025	NMR
pH low	≥ 6.0	6.6	6.1	6.8	6.6	7.0	7.2	7.0	7.2	7.4	7.3	7.0	7.3
pH high	≤ 9.5	7.3	7.0	7.2	7.4	7.7	7.9	7.7	7.2	7.4	8.1	7.7	8.1
Flow (m3/month)	—	59,821	154,631	340,337	340,337	338,931	364,749	235,767	48,111	108,307	296,382	245,269	236,452
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Lapa (Project)													
Operator Name	Mines Agnico-Eagle Ltée													
Product(s)	Gold													
Address	299 St.-Paul Boulevard North, Rivière-Éva, Quebec J0Y 2H0													
Effluent Discharge Point	Final Effluent – Sedimentation Pond													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0406	0.0377	0.0685	0.0570	0.0272	0.0544	0.0526	0.0558	0.0859	0.0748	0.0723	0.1677	
Cu (mg/L)	0.3	0.0079	0.0051	0.0050	0.0073	0.0090	0.0028	0.0277	0.0079	0.0050	0.0089	0.0092	0.0068	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0104	0.0009	0.0163	0.0040	0.0031	0.0081	0.0104	0.0002	0.0016	0.0006	0.0017	0.0002	
Ni (mg/L)	0.5	0.0161	0.0145	0.0180	0.0221	0.0208	0.0202	0.0236	0.0261	0.0363	0.0309	0.0270	0.0205	
Zn (mg/L)	0.5	0.0044	0.0048	0.0045	0.0073	0.0078	0.0046	0.0063	0.0108	0.0111	0.0104	0.0183	0.0050	
TSS (mg/L)	15	10.75	11.50	14.50	13.33	6.40	9.50	4.33	7.25	7.75	6.50	13.50	14.00	
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0010	NMR	0.0030	NMR	0.0190	NMR	NMR	0.0140	NMR	NMR	
pH low	≥ 6.0	6.3	7.1	8.8	8.4	8.0	8.0	7.4	6.9	6.7	6.5	7.6	8.4	
pH high	≤ 9.5	7.5	8.6	8.9	8.4	8.6	9.2	8.2	7.5	7.0	8.5	7.7	8.8	
Flow (m3/month)	—	21,439	6,905	3,036	10,894	25,488	25,229	1,796	8,093	18,237	15,735	24,134	5,328	
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Laronde (Mine)													
Operator Name	Mines Agnico-Eagle Ltée													
Product(s)	Gold-Silver-Copper-Zinc													
Address	10200 Preissac Road, Rouyn-Noranda, Quebec J0Y 1C0													
Effluent Discharge Point	Final Effluent 3A													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0011	0.0015	0.0043	0.0005	0.0018	0.0013	0.0026	0.0033	0.0011	0.0028	0.0021	0.0025	
Cu (mg/L)	0.3	0.0258	0.0375	0.0785	0.0510	0.0275	0.0238	0.0264	0.0215	0.0335	0.0256	0.0298	0.0350	
CN (mg/L)	1.0	0.1046	0.0938	0.1625	0.0754	0.1495	0.0420	0.0198	0.0188	0.0315	0.0376	0.0898	0.1444	
Pb (mg/L)	0.2	0.0017	0.0009	0.0014	0.0005	0.0002	0.0005	0.0004	0.0009	0.0003	0.0001	0.0004	0.0003	
Ni (mg/L)	0.5	0.1022	0.1125	0.1428	0.1094	0.0261	0.0590	0.0554	0.0555	0.0653	0.0788	0.0988	0.1398	
Zn (mg/L)	0.5	0.0014	0.0053	0.0078	0.0148	0.0105	0.0023	0.0026	0.0098	0.0108	0.0046	0.0083	0.0126	
TSS (mg/L)	15	3.04	3.68	5.00	9.96	14.25	10.58	6.62	4.70	8.88	7.48	5.28	3.14	
Ra-226 (Bq/L)	0.37	0.0025	NMR	NMR	0.0025	NMR	NMR	0.0025	NMR	NMR	0.0025	NMR	NMR	
pH low	≥ 6.0	7.0	6.9	7.0	6.9	7.1	7.1	6.9	6.9	7.2	6.9	6.7	6.9	
pH high	≤ 9.5	7.3	7.5	7.8	7.1	7.2	7.3	7.4	7.4	7.9	7.3	7.2	7.0	
Flow (m3/month)	—	171,076	138,103	201,402	239,038	305,853	331,696	310,422	248,626	204,172	260,369	233,230	192,527	
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Lockerby Mine													
Operator Name	First Nickel Inc.													
Product(s)	Copper-Nickel-Cobalt													
Address	N1-2 Lot 2 Concession 5, PCL 454, SWS Denison Twp., Whitefish, Ontario P0M 3E0													
Effluent Discharge Point	Number 4 Pond Effluent													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0098	0.0150	0.0123	0.0123	0.0150	0.0150	0.0150	0.0150	0.0150	0.0122	0.0150	0.0150	
Cu (mg/L)	0.3	0.0121	0.0175	0.0163	0.0144	0.0150	0.0208	0.0150	0.0150	0.0150	0.0128	0.0150	0.0150	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0032	0.0075	0.0076	0.0051	0.0050	0.0050	0.0050	0.0050	0.0050	0.0041	0.0050	0.0050	
Ni (mg/L)	0.5	0.2226	0.0738	0.0840	0.1544	0.0920	0.0543	0.0522	0.0453	0.0385	0.0544	0.0795	0.0788	
Zn (mg/L)	0.5	0.0136	0.0200	0.0156	0.0165	0.0200	0.0200	0.0200	0.0200	0.0200	0.0165	0.0200	0.0200	
TSS (mg/L)	15	1.27	1.38	4.25	2.60	1.25	1.63	1.30	0.88	3.63	0.50	1.38	1.50	
Ra-226 (Bq/L)	0.37	0.1430	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.0550	0.2600	0.3000	0.3000	
pH low	≥ 6.0	7.6	7.5	7.5	7.4	7.0	6.6	6.9	6.9	6.7	7.6	7.6	7.3	
pH high	≤ 9.5	8.0	7.9	7.7	7.6	7.5	7.2	7.6	7.0	7.2	8.0	7.8	8.1	
Flow (m3/month)	—	34,469	27,419	36,100	52,450	35,478	37,562	41,398	43,874	32,923	32,726	34,190	23,887	
Rainbow Trout	Pass	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	1	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Lupin Operations													
Operator Name	Lupin Mines Inc.													
Product(s)	Gold													
Address	Contwoyto Lake, Lac Contwoyto, Nunavut													
Effluent Discharge Point	Tailings Polishing Pond No. 2													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Macassa Mine												
Operator Name	Kirkland Lake Gold Inc.												
Product(s)	Gold												
Address	Highway 66, #3 Shaft, Kirkland Lake, Ontario P2N 3J1												
Effluent Discharge Point	C Dam												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0006	0.0008	0.0007	0.0008	0.0005	0.0013	0.0019	0.0008	0.0009	0.0008	0.0006	0.0006
Cu (mg/L)	0.3	0.0056	0.0057	0.0061	0.0250	0.0075	0.0165	0.0244	0.0093	0.0088	0.0104	0.0150	0.0125
CN (mg/L)	1.0	0.0042	0.0128	0.0053	0.0154	0.0105	0.0120	0.0104	0.0015	0.0010	0.0048	0.1010	0.0478
Pb (mg/L)	0.2	0.0005	0.0005	0.0005	0.0006	0.0010	0.0005	0.0006	0.0005	0.0005	0.0005	0.0005	0.0005
Ni (mg/L)	0.5	0.0025	0.0021	0.0025	0.0032	0.0035	0.0030	0.0032	0.0022	0.0016	0.0020	0.0025	0.0033
Zn (mg/L)	0.5	0.0103	0.0093	0.0116	0.0112	0.0088	0.0043	0.0031	0.0053	0.0048	0.0046	0.0055	0.0068
TSS (mg/L)	15	1.55	1.03	1.43	2.60	1.63	2.63	3.80	1.18	2.75	2.50	1.38	0.88
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0025	NMR	NMR	0.0050	NMR	0.0025	NMR	0.0025	NMR	NMR
pH low	≥ 6.0	7.8	8.0	6.1	7.6	7.4	7.7	7.8	7.8	7.8	7.3	7.6	7.7
pH high	≤ 9.5	8.2	8.2	8.2	8.2	8.1	8.0	8.1	8.2	8.2	8.2	8.3	8.0
Flow (m3/month)	—	123,312	54,411	73,463	244,458	479,526	585,100	367,484	158,948	240,750	231,980	427,604	145,364
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Magnacon Mine (part of Eagle River Mill)													
Operator Name	Wesdome Gold Mines Ltd.													
Product(s)	Gold													
Address	93 Mission Road, P.O. Box 1520, Wawa, Ontario P0S 1K0													
Effluent Discharge Point	Magnacon Mine													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Matagami Mine													
Operator Name	Xstrata Canada Corporation / Glencore Canada Corporation													
Product(s)	Zinc-Copper													
Address	500 Industriel Boulevard, Matagami, Quebec J0Y 2A0													
Effluent Discharge Point	Final Effluent (WLD)													
Parameters	Limits	Jan	Feb	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0004	0.0007	0.0008	0.0005	0.0006	0.0011	0.0016	0.0040	0.0008	0.0005	0.0005	0.0006	
Cu (mg/L)	0.3	0.0003	0.0003	0.0009	0.0026	0.0030	0.0038	0.0029	0.0019	0.0041	0.0038	0.0025	0.0034	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0012	0.0026	0.0038	0.0005	0.0016	0.0018	0.0007	0.0006	0.0009	0.0005	0.0009	0.0009	
Ni (mg/L)	0.5	0.0039	0.0055	0.0030	0.0005	0.0015	0.0005	0.0008	0.0023	0.0014	0.0009	0.0006	0.0005	
Zn (mg/L)	0.5	0.0099	0.0014	0.0104	0.1108	0.1226	0.0633	0.0296	0.0338	0.0369	0.0434	0.0413	0.0154	
TSS (mg/L)	15	2.10	1.75	1.38	2.75	3.40	3.13	1.80	0.88	2.50	1.20	2.75	3.60	
Ra-226 (Bq/L)	0.37	0.0020	NMR	NMR	NMR	0.0010	NMR	0.0010	NMR	NMR	0.0030	NMR	NMR	
pH low	≥ 6.0	8.8	8.8	8.7	8.9	8.6	9.0	7.4	7.5	8.5	9.0	9.0	8.8	
pH high	≤ 9.5	9.3	8.9	9.3	9.1	9.2	9.2	8.9	9.0	9.0	9.2	9.2	9.2	
Flow (m3/month)	—	737,408	516,844	1,090,078	1,807,283	2,041,889	1,414,244	602,057	1,055,767	1,467,829	1,422,246	1,587,117	852,671	
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	As of July 30, 2013, the ownership of Matagami Mine was transferred from Xstrata Canada Corporation to Glencore Canada Corporation.													
Notes:	ND: No Deposit	NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
	Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
	A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	MAX Molybdenum Mine and Mill													
Operator Name	FortyTwo Metals Inc.													
Product(s)	Molybdenum													
Address	42 Westside Road, Trout Lake, British Columbia V0G 1R0													
Effluent Discharge Point	MM.SiteD – Mine Portal Settling Pond													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	MAX Molybdenum Mine and Mill												
Operator Name	FortyTwo Metals Inc.												
Product(s)	Molybdenum												
Address	42 Westside Road, Trout Lake, British Columbia V0G 1R0												
Effluent Discharge Point	MM.SiteI – Settling Ponds Decant												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	NMR	NMR	0.0003	NMR	NMR	0.0008	NMR	0.0010	0.0007
Cu (mg/L)	0.3	-	-	-	NMR	NMR	0.0001	NMR	NMR	0.0001	NMR	0.0003	0.0002
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	-	-	-	NMR	NMR	0.0001	NMR	NMR	0.0001	NMR	0.0006	0.0001
Ni (mg/L)	0.5	-	-	-	NMR	NMR	0.0010	NMR	NMR	0.0006	NMR	0.0005	0.0005
Zn (mg/L)	0.5	-	-	-	NMR	NMR	0.0020	NMR	NMR	0.0020	NMR	0.0020	0.0020
TSS (mg/L)	15	-	-	-	-	-	3.00	0.50	0.50	0.50	0.50	0.50	0.50
Ra-226 (Bq/L)	0.37	-	-	-	NMR	NMR	0.0025	NMR	NMR	0.0025	NMR	0.0100	NMR
pH low	≥ 6.0	8.3	8.2	8.1	-	-	8.3	8.1	8.1	8.2	8.1	8.1	8.0
pH high	≤ 9.5	8.3	8.2	8.1	-	-	8.3	8.1	8.1	8.2	8.1	8.2	8.0
Flow (m3/month)	—	114,669	42,461	47,010	54,926	120,167	110,970	114,669	114,669	110,970	110,970	76,112	56,983
Rainbow Trout	Pass	-	-	-	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	Only flow and pH data were provided for the first quarter. No pH and TSS data were provided for April and May.												
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	MAX Molybdenum Mine and Mill												
Operator Name	FortyTwo Metals Inc.												
Product(s)	Molybdenum												
Address	42 Westside Road, Trout Lake, British Columbia V0G 1R0												
Effluent Discharge Point	MM.TP – Tailings Pond Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CN (mg/L)	1.0	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TSS (mg/L)	15	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH low	≥ 6.0	8.9	8.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
pH high	≤ 9.5	8.9	8.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flow (m3/month)	—	12,176	3,314	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rainbow Trout	Pass	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	Only flow and pH data were provided for the first quarter.												
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	McAlpine Mill Site													
Operator Name	SMC (Canada) Ltd.													
Product(s)	Gold-Silver-Platinum-Palladium													
Address	Lot 4, Concession 4, P.O. Box 710, Coleman Road, Cobalt, Ontario P0J 1C0													
Effluent Discharge Point	Polishing Pond													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0688	0.1095	0.1288	0.1854	0.1980	0.1643	0.1280	0.0730	0.0758	0.0788	0.1288	0.1918	
Cu (mg/L)	0.3	0.0028	0.0078	0.0083	0.0068	0.0050	0.0038	0.0020	0.0038	0.0040	0.0040	0.0060	0.0070	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0058	0.0049	0.0053	0.0041	0.0056	0.0034	0.0045	0.0045	0.0038	0.0056	0.0046	0.0036	
Ni (mg/L)	0.5	0.0288	0.0245	0.0253	0.0212	0.0085	0.0095	0.0080	0.0100	0.0042	0.0070	0.0093	0.0212	
Zn (mg/L)	0.5	0.0020	0.0018	0.0048	0.0062	0.0040	0.0015	0.0010	0.0010	0.0022	0.0013	0.0035	0.0074	
TSS (mg/L)	15	4.75	8.00	4.25	6.60	11.75	7.50	5.00	4.00	3.40	3.50	5.25	2.80	
Ra-226 (Bq/L)	0.37	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	
pH low	≥ 6.0	7.1	8.1	8.1	8.0	8.4	7.9	8.1	7.9	8.0	8.0	8.0	7.9	
pH high	≤ 9.5	8.3	8.9	8.6	8.6	8.9	8.7	8.4	8.0	8.2	8.2	8.3	8.6	
Flow (m3/month)	—	35,926	34,435	55,386	325,746	178,258	50,633	46,169	21,418	30,342	37,470	158,831	60,694	
Rainbow Trout	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	1	1	1	-	-	1	1	2	1	1	1	
Monitoring Test	Fail	-	-	-	-	2	2	1	1	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	McArthur River Operation													
Operator Name	Cameco Corporation													
Product(s)	Uranium													
Address	2121-11th Street West, Saskatoon, Saskatchewan S7M 1J3													
Effluent Discharge Point	Station 2.1													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0019	0.0014	0.0015	0.0016	0.0015	0.0017	0.0025	0.0028	0.0016	0.0014	0.0016	0.0016	
Cu (mg/L)	0.3	0.0012	0.0013	0.0011	0.0012	0.0011	0.0010	0.0010	0.0008	0.0010	0.0011	0.0014	0.0012	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	
Ni (mg/L)	0.5	0.0017	0.0014	0.0014	0.0018	0.0012	0.0009	0.0010	0.0012	0.0010	0.0009	0.0015	0.0013	
Zn (mg/L)	0.5	0.0015	0.0013	0.0011	0.0015	0.0016	0.0020	0.0018	0.0023	0.0009	0.0010	0.0015	0.0014	
TSS (mg/L)	15	1.00	0.63	2.25	0.70	0.50	0.50	1.70	1.00	0.63	0.60	0.50	0.60	
Ra-226 (Bq/L)	0.37	0.0460	0.0575	0.0450	0.0480	0.0325	0.0450	0.0425	0.0225	0.1000	0.0720	0.0450	0.0380	
pH low	≥ 6.0	7.0	7.1	7.0	7.0	7.0	6.8	6.8	6.9	7.3	7.1	7.0	7.1	
pH high	≤ 9.5	7.3	7.3	7.3	7.7	7.5	7.4	7.5	7.4	7.4	7.6	7.2	7.4	
Flow (m3/month)	—	207,050	208,925	182,999	178,570	202,281	185,752	178,107	147,394	211,910	193,126	183,465	183,465	
Rainbow Trout	Pass	NMR	1	NMR	1	NMR	NMR	NMR	1	NMR	NMR	1	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	NMR	1	NMR	1	NMR	NMR	NMR	1	NMR	NMR	1	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	McArthur River Operation													
Operator Name	Cameco Corporation													
Product(s)	Uranium													
Address	2121-11th Street West, Saskatoon, Saskatchewan S7M 1J3													
Effluent Discharge Point	Station 2.1B													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	McArthur River Operation													
Operator Name	Cameco Corporation													
Product(s)	Uranium													
Address	2121-11th Street West, Saskatoon, Saskatchewan S7M 1J3													
Effluent Discharge Point	Station 2.7													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	
Cu (mg/L)	0.3	ND	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0005	0.0001	0.0001	0.0003	0.0001	
CN (mg/L)	1.0	ND	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	ND	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001	
Ni (mg/L)	0.5	ND	0.0016	0.0015	0.0014	0.0013	0.0021	0.0015	0.0016	0.0013	0.0020	0.0017	0.0022	
Zn (mg/L)	0.5	ND	0.0240	0.0215	0.0476	0.0099	0.0081	0.0158	0.0273	0.0076	0.0121	0.0215	0.0282	
TSS (mg/L)	15	ND	1.00	0.63	0.50	0.50	0.50	0.50	0.50	0.88	0.70	0.63	0.60	
Ra-226 (Bq/L)	0.37	ND	0.1100	0.1050	0.1080	0.1025	0.1050	0.0960	0.1100	0.1050	0.1080	0.1050	0.1140	
pH low	≥ 6.0	ND	7.0	7.0	6.9	7.3	6.9	6.8	6.9	6.9	7.0	6.8	6.8	
pH high	≤ 9.5	ND	7.0	7.3	7.3	7.5	7.1	7.5	8.0	7.5	7.4	7.4	7.2	
Flow (m3/month)	—	ND	3,066	31,473	36,223	36,786	37,437	36,146	32,841	36,498	34,669	36,265	36,358	
Rainbow Trout	Pass	ND	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	McClellan Lake Operation													
Operator Name	AREVA Resources Canada Inc.													
Product(s)	Uranium													
Address	P.O. Box 9204, 817-45th Street West, Saskatoon, Saskatchewan S7K 3X5													
Effluent Discharge Point	CM01-B													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0005	0.0005	0.0005	0.0006	0.0006	0.0005	0.0005	0.0005	0.0007	0.0006	0.0008	0.0005	
Cu (mg/L)	0.3	0.0010	0.0011	0.0014	0.0013	0.0018	0.0010	0.0012	0.0008	0.0005	0.0014	0.0018	0.0013	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0005	0.0005	0.0004	0.0005	0.0005	0.0004	0.0004	0.0005	0.0005	0.0005	0.0005	0.0004	
Ni (mg/L)	0.5	0.0190	0.0163	0.0105	0.0125	0.0155	0.0206	0.0255	0.0283	0.0224	0.0185	0.0213	0.0202	
Zn (mg/L)	0.5	0.0018	0.0018	0.0014	0.0029	0.0023	0.0013	0.0014	0.0028	0.0013	0.0019	0.0011	0.0020	
TSS (mg/L)	15	1.63	1.38	1.00	2.13	2.75	1.60	2.67	3.00	3.00	1.25	1.00	0.92	
Ra-226 (Bq/L)	0.37	0.0031	0.0038	0.0051	0.0063	0.0031	0.0040	0.0054	0.0044	0.0040	0.0050	0.0075	0.0035	
pH low	≥ 6.0	7.0	7.0	7.0	6.9	7.1	6.7	7.0	7.2	7.2	7.1	7.2	7.1	
pH high	≤ 9.5	7.2	7.2	7.3	7.2	7.4	7.5	7.3	7.4	7.3	7.2	7.4	7.5	
Flow (m3/month)	—	81,811	73,268	56,264	55,550	101,245	89,848	77,473	59,334	59,993	74,435	74,766	76,438	
Rainbow Trout	Pass	NMR	NMR	1	NMR	NMR	1	1	NMR	NMR	NMR	NMR	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	NMR	1	1	NMR	NMR	NMR	NMR	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	McClellan Lake Operation													
Operator Name	AREVA Resources Canada Inc.													
Product(s)	Uranium													
Address	P.O. Box 9204, 817-45th Street West, Saskatoon, Saskatchewan S7K 3X5													
Effluent Discharge Point	CM03													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	McClellan Lake Operation													
Operator Name	AREVA Resources Canada Inc.													
Product(s)	Uranium													
Address	P.O. Box 9204, 817-45th Street West, Saskatoon, Saskatchewan S7K 3X5													
Effluent Discharge Point	SC01													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	0.0074	0.0086	0.0081	0.0360	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	0.0004	0.0004	0.0011	0.0005	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	NMR	NMR	NMR	NMR	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	0.0008	0.0004	0.0004	0.0005	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	0.0660	0.0638	0.0598	0.0890	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	0.0021	0.0013	0.0006	0.0005	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	0.50	0.50	0.50	2.00	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	0.0056	0.0034	0.0025	0.0005	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	6.6	6.7	6.8	7.0	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	7.3	7.2	7.1	7.0	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	43,625	77,330	71,843	6,625	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	NMR	1	1	NMR	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	NMR	1	1	NMR	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	McClellan Lake Operation													
Operator Name	AREVA Resources Canada Inc.													
Product(s)	Uranium													
Address	P.O. Box 9204, 817-45th Street West, Saskatoon, Saskatchewan S7K 3X5													
Effluent Discharge Point	SP01													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	McWatters Mine												
Operator Name	Liberty Mines Inc. / Northern Sun Mining Corp.												
Product(s)	Nickel												
Address	P.O. Box 398, South Porcupine, Ontario P0N 1H0												
Effluent Discharge Point	MWD-2												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0030	0.0027	0.0028	0.0018	0.0013	0.0019	0.0021	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	0.0013	0.0010	0.0006	0.0007	0.0007	0.0010	0.0009	ND	ND	ND	ND	ND
CN (mg/L)	1.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	0.0002	0.0003	0.0001	0.0007	0.0003	0.0001	0.0004	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	0.3248	0.3293	0.3210	0.2223	0.1114	0.1239	0.0597	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	0.0015	0.0010	0.0010	0.0022	0.0020	0.0010	0.0010	ND	ND	ND	ND	ND
TSS (mg/L)	15	5.50	1.00	4.25	1.00	1.00	1.25	3.50	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0050	NMR	NMR	0.0100	-	ND	ND	ND	ND	ND
pH low	≥ 6.0	9.0	8.4	8.5	8.3	7.8	7.7	8.2	ND	ND	ND	ND	ND
pH high	≤ 9.5	9.1	8.7	8.9	8.9	8.1	8.1	8.2	ND	ND	ND	ND	ND
Flow (m3/month)	—	9,799	1,824	1,095	1,686	548	4,226	797	ND	ND	ND	ND	ND
Rainbow Trout	Pass	1	1	1	1	1	1	1	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No radium 226 test results were provided for the third quarter. As of October 21, 2013, the ownership of McWatters Mine was transferred from Liberty Mines Inc. to Northern Sun Mining Corp.												
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Meadowbank Mine												
Operator Name	Agnico-Eagle Mines Ltd.												
Product(s)	Gold												
Address	P.O. Box 540, Baker Lake, Nunavut X0C 0A0												
Effluent Discharge Point	Attenuation Pond Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Cu (mg/L)	0.3	-	-	-	-	-	-	-	-	-	-	-	-
CN (mg/L)	1.0	-	-	-	-	-	-	-	-	-	-	-	-
Pb (mg/L)	0.2	-	-	-	-	-	-	-	-	-	-	-	-
Ni (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Zn (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
TSS (mg/L)	15	-	-	-	-	-	-	-	-	-	-	-	-
Ra-226 (Bq/L)	0.37	-	-	-	-	-	-	-	-	-	-	-	-
pH low	≥ 6.0	-	-	-	-	-	-	-	-	-	-	-	-
pH high	≤ 9.5	-	-	-	-	-	-	-	-	-	-	-	-
Flow (m3/month)	—	-	-	-	-	-	-	-	-	-	-	-	-
Rainbow Trout	Pass	-	-	-	-	-	-	-	-	-	-	-	-
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	-	-	-	-	-	-
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	This final discharge point is no longer subject to the MMER.												
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Meadowbank Mine												
Operator Name		Agnico-Eagle Mines Ltd.												
Product(s)		Gold												
Address		P.O. Box 540, Baker Lake, Nunavut X0C 0A0												
Effluent Discharge Point		Vault Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	-	-	-	-	-	0.0003	0.0003	0.0003	0.0003	0.0012	ND	ND	
Cu (mg/L)	0.3	-	-	-	-	-	0.0003	0.0003	0.0009	0.0006	0.0012	ND	ND	
CN (mg/L)	1.0	-	-	-	-	-	0.0025	0.0037	0.0043	0.0031	0.0031	ND	ND	
Pb (mg/L)	0.2	-	-	-	-	-	0.0002	0.0002	0.0082	0.0002	0.0003	ND	ND	
Ni (mg/L)	0.5	-	-	-	-	-	0.0003	0.0003	0.0003	0.0012	0.0006	ND	ND	
Zn (mg/L)	0.5	-	-	-	-	-	0.0005	0.0008	0.0025	0.0041	0.0019	ND	ND	
TSS (mg/L)	15	-	-	-	-	-	4.00	2.10	0.50	2.25	6.13	ND	ND	
Ra-226 (Bq/L)	0.37	-	-	-	-	-	0.0010	0.0010	0.0023	0.0053	0.0050	ND	ND	
pH low	≥ 6.0	-	-	-	-	-	8.6	6.6	7.0	6.9	6.9	ND	ND	
pH high	≤ 9.5	-	-	-	-	-	8.6	7.8	7.6	7.5	7.7	ND	ND	
Flow (m3/month)	—	-	-	-	-	-	44,614	463,005	727,426	784,648	344,907	ND	ND	
Rainbow Trout	Pass	-	-	-	-	-	-	1	1	1	1	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	1	1	1	1	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:		This new final discharge point was became subject to the MMER on June 27, 2013. No toxicity test results were provided for the month of June.												
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Meadowbank Mine												
Operator Name	Agnico-Eagle Mines Ltd.												
Product(s)	Gold												
Address	P.O. Box 540, Baker Lake, Nunavut X0C 0A0												
Effluent Discharge Point	Water Treatment Plant (formerly Dewatering Final Discharge 1)												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	0.0340	NMR	0.0014	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	0.0056	NMR	0.0045	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	0.2320	NMR	0.2460	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	0.0002	NMR	0.0002	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	0.0600	NMR	0.0678	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	0.0050	NMR	0.0030	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	5.50	5.50	6.00	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	0.0350	NMR	0.0250	ND	ND
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	7.6	6.9	6.9	ND	ND
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	8.0	7.4	7.4	ND	ND
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	94,440	307,618	82,960	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	1	NMR	1	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	1	NMR	1	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	This final discharge point has been renamed as “Water Treatment Plant”.												
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Ming Mine													
Operator Name	Rambler Metals and Mining Canada Ltd.													
Product(s)	Copper-Gold													
Address	Route 418 Ming's Bight Road, Baie Verte, Newfoundland and Labrador A0K 1B0													
Effluent Discharge Point	Wastewater Treatment System Discharge													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0005	0.0005	0.0009	0.0012	0.0007	0.0005	0.0006	0.0005	0.0014	0.0017	0.0013	0.0012	
Cu (mg/L)	0.3	0.2410	0.2614	0.0128	0.0903	0.0299	0.0158	0.0213	0.0340	0.0302	0.0388	0.0520	0.0238	
CN (mg/L)	1.0	NMR	NMR	NMR	0.0010	0.0024	0.0048	0.0080	0.0102	0.0061	0.0025	0.0049	0.0063	
Pb (mg/L)	0.2	0.0003	0.0014	0.0012	0.0006	0.0004	0.0004	0.0004	0.0008	0.0004	0.0020	0.0025	0.0003	
Ni (mg/L)	0.5	0.1590	0.0379	0.0257	0.0133	0.0167	0.0130	0.0093	0.0132	0.0162	0.0074	0.0309	0.0195	
Zn (mg/L)	0.5	5.2900	0.2383	0.2056	0.3192	0.2810	0.0928	0.0846	0.1306	0.1771	0.1950	0.2380	0.1764	
TSS (mg/L)	15	2.00	5.17	7.88	5.00	6.26	5.33	7.16	6.75	8.40	4.93	2.93	4.86	
Ra-226 (Bq/L)	0.37	0.0300	0.0100	0.0238	0.0160	0.0257	0.0267	0.0210	0.0108	0.0148	0.0108	0.0160	0.0158	
pH low	≥ 6.0	7.9	8.4	8.3	8.5	8.3	8.4	8.3	8.5	7.6	8.2	7.4	7.2	
pH high	≤ 9.5	7.9	8.8	9.1	9.0	8.7	9.0	8.9	8.9	8.7	8.5	8.3	8.7	
Flow (m3/month)	—	31,259	30,209	44,169	49,566	47,418	34,095	24,881	27,780	29,535	33,595	39,346	35,829	
Rainbow Trout	Pass	1	1	2	2	2	1	1	1	1	1	2	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	-	1	1	1	2	-	1	1	-	-	1	1	
Monitoring Test	Fail	1	-	1	1	-	1	-	-	1	1	1	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Minto Project													
Operator Name	Minto Explorations Ltd.													
Product(s)	Copper-Gold-Silver													
Address	P.O. Box 33174, Whitehorse, Yukon Y1A 6S1													
Effluent Discharge Point	Mi.W3 – Runoff Main Water Dam													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0002	0.0002	0.0002	0.0003	0.0006	0.0003	0.0003	0.0003	0.0003	0.0003	0.0002	0.0002	
Cu (mg/L)	0.3	0.0019	0.0018	0.0021	0.0068	0.0435	0.0054	0.0035	0.0024	0.0028	0.0025	0.0021	0.0020	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0001	0.0001	0.0001	0.0001	0.0004	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	
Ni (mg/L)	0.5	0.0006	0.0005	0.0007	0.0005	0.0017	0.0011	0.0013	0.0009	0.0013	0.0012	0.0006	0.0007	
Zn (mg/L)	0.5	0.0040	0.0025	0.0025	0.0025	0.0049	0.0030	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	
TSS (mg/L)	15	1.20	0.50	0.95	1.70	14.42	11.50	0.50	0.50	0.50	0.60	0.50	0.50	
Ra-226 (Bq/L)	0.37	-	-	-	0.0200	NMR	NMR	NMR	0.0050	NMR	0.0050	NMR	NMR	
pH low	≥ 6.0	7.9	7.9	8.2	8.2	7.7	8.2	8.2	8.2	8.0	8.2	8.0	8.0	
pH high	≤ 9.5	8.3	8.1	8.3	8.3	8.3	8.4	8.4	8.4	8.2	8.4	8.3	8.2	
Flow (m3/month)	—	8,303	7,016	7,031	37,697	298,039	9,979	7,500	7,734	9,307	8,897	16,380	8,711	
Rainbow Trout	Pass	-	-	-	NMR	1	NMR	NMR	1	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	-	-	-	NMR	1	NMR	NMR	1	NMR	1	NMR	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	No toxicity or radium 226 test results were provided for the first quarter.													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Mishi Pit (part of Eagle River Mill)													
Operator Name	Wesdome Gold Mines Ltd.													
Product(s)	Gold													
Address	93 Mission Road, P.O. Box 1520, Wawa, Ontario P0S 1K0													
Effluent Discharge Point	Mishi Pit													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	0.0005	0.0009	0.0006	0.0002	0.0007	0.0005	0.0007	0.0006	0.0020	0.0005	0.0006	
Cu (mg/L)	0.3	ND	0.0007	0.0014	0.0011	0.0006	0.0008	0.0003	0.0005	0.0022	0.0009	0.0011	0.0007	
CN (mg/L)	1.0	ND	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	ND	0.0001	0.0003	0.0001	0.0001	0.0001	0.0000	0.0000	0.0001	0.0002	0.0001	0.0000	
Ni (mg/L)	0.5	ND	0.0005	0.0008	0.0008	0.0003	0.0006	0.0003	0.0004	0.0005	0.0006	0.0005	0.0007	
Zn (mg/L)	0.5	ND	0.0025	0.0046	0.0033	0.0015	0.0010	0.0003	0.0005	0.0015	0.0004	0.0024	0.0008	
TSS (mg/L)	15	ND	8.90	2.55	5.65	1.00	1.00	1.00	1.75	1.87	7.20	3.40	1.00	
Ra-226 (Bq/L)	0.37	ND	0.0050	NMR	0.0050	NMR	0.0050	0.0050	0.0050	0.0110	0.0050	NMR	0.0100	
pH low	≥ 6.0	ND	7.1	6.9	7.0	6.8	7.2	7.6	7.0	7.2	7.4	6.8	7.0	
pH high	≤ 9.5	ND	7.1	7.0	7.8	7.1	7.2	7.6	7.4	7.6	7.7	7.0	7.0	
Flow (m3/month)	—	ND	6,842	7,706	3,455	16,907	643	5,792	21,117	27,541	8,771	6,574	1,380	
Rainbow Trout	Pass	ND	1	1	1	1	1	1	1	1	1	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	1	1	1	1	1	1	1	1	1	1	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Monique (Project)												
Operator Name	Mines Richmont Incorporé												
Product(s)	Gold												
Address	25 km East of Val-d'Or, Val-d'Or, Quebec J9X 4P6												
Effluent Discharge Point	Monique Final Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	0.0003	0.0007	0.0004	0.0003	0.0003	0.0003	0.0003	0.0007	0.0003
Cu (mg/L)	0.3	-	-	-	0.0507	0.0398	0.0100	0.0112	0.0081	0.0096	0.0188	0.0087	0.0025
CN (mg/L)	1.0	-	-	-	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	-	-	-	0.0007	0.0089	0.0059	0.0026	0.0007	0.0014	0.0003	0.0055	0.0002
Ni (mg/L)	0.5	-	-	-	0.0055	0.0173	0.0080	0.0066	0.0095	0.0086	0.0093	0.0084	0.0074
Zn (mg/L)	0.5	-	-	-	0.0042	0.0115	0.0221	0.0062	0.0041	0.0043	0.0080	0.0162	0.0079
TSS (mg/L)	15	-	-	-	20.67	12.50	6.33	6.89	10.50	7.20	7.00	8.67	7.80
Ra-226 (Bq/L)	0.37	-	-	-	0.0020	0.0097	0.0047	0.0034	0.0033	0.0020	0.0050	NMR	NMR
pH low	≥ 6.0	-	-	-	7.5	7.0	6.7	6.4	6.6	6.3	6.3	6.6	6.7
pH high	≤ 9.5	-	-	-	7.7	7.7	7.4	6.9	6.8	7.0	6.7	7.9	7.3
Flow (m3/month)	—	-	-	-	13,037	19,158	16,755	15,178	26,700	33,058	27,704	37,071	26,682
Rainbow Trout	Pass	-	-	-	-	-	2	3	1	3	3	1	1
Acute Lethality Test	Fail	-	-	-	1	2	-	-	-	1	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	1	2	1	3	1	3	3	1	1
Monitoring Test	Fail	-	-	-	-	-	1	-	-	1	-	-	-
Comments:	This mine became subject to the MMER in April 2013.												
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Montcalm Project													
Operator Name	Xstrata Canada Corporation / Glencore Canada Corporation													
Product(s)	Nickel-Copper-Cobalt													
Address	c/o P.O. Box 2002, Hwy. 655 North, Timmins, Ontario P4N 7K1													
Effluent Discharge Point	Montcalm Final Effluent													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	0.0003	0.0004	0.0004	0.0004	0.0006	0.0008	0.0010	0.0009	
Cu (mg/L)	0.3	ND	ND	ND	ND	0.0010	0.0026	0.0024	0.0025	0.0018	0.0018	0.0028	0.0033	
CN (mg/L)	1.0	ND	ND	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	ND	ND	ND	ND	0.0005	0.0007	0.0002	0.0001	0.0000	0.0000	0.0000	0.0000	
Ni (mg/L)	0.5	ND	ND	ND	ND	0.0270	0.0291	0.0365	0.0226	0.0164	0.0201	0.0210	0.0291	
Zn (mg/L)	0.5	ND	ND	ND	ND	0.0010	0.0010	0.0010	0.0010	0.0018	0.0012	0.0010	0.0018	
TSS (mg/L)	15	ND	ND	ND	ND	1.00	3.00	1.33	1.00	1.00	1.00	1.00	1.40	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	0.0050	0.0050	0.0197	0.0035	0.0050	0.0050	0.0050	0.0050	
pH low	≥ 6.0	ND	ND	ND	ND	8.0	7.7	7.2	7.3	7.5	7.2	7.3	7.3	
pH high	≤ 9.5	ND	ND	ND	ND	8.0	7.7	8.0	7.5	8.0	7.5	7.8	8.6	
Flow (m3/month)	—	ND	ND	ND	ND	22,821	42,044	37,512	100,951	141,745	122,708	134,198	129,244	
Rainbow Trout	Pass	ND	ND	ND	ND	1	1	1	1	1	1	1	2	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	1	1	1	1	1	1	1	2	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	As of July 30, 2013, the ownership of the Montcalm Project was transferred from Xstrata Canada Corporation to Glencore Canada Corporation.													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Mont-Wright (Mine)													
Operator Name	ArcelorMittal Mines Canada - ArcelorMittal Exploitation minière Canada s.e.n.c.													
Product(s)	Iron													
Address	P.O. Box 1817, Route 389, Fermont, Quebec G0G 1J0													
Effluent Discharge Point	HS-1													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0005	0.0006	0.0005	0.0005	0.0006	0.0005	0.0005	0.0005	0.0008	0.0005	0.0005	0.0005	
Cu (mg/L)	0.3	0.0026	0.0025	0.0035	0.0024	0.0048	0.0020	0.0022	0.0025	0.0034	0.0030	0.0030	0.0028	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0005	0.0005	0.0005	0.0005	0.0006	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	
Ni (mg/L)	0.5	0.0148	0.0160	0.0175	0.0096	0.0113	0.0075	0.0074	0.0105	0.0118	0.0170	0.0185	0.0188	
Zn (mg/L)	0.5	0.0148	0.0130	0.0133	0.0065	0.0213	0.0104	0.0232	0.0161	0.0096	0.0152	0.0140	0.0178	
TSS (mg/L)	15	0.60	0.75	2.63	11.06	13.06	4.50	4.40	5.75	14.80	5.00	3.50	1.40	
Ra-226 (Bq/L)	0.37	NMR	0.0060	NMR	NMR	0.0020	NMR	NMR	0.0070	NMR	0.0040	0.0040	NMR	
pH low	≥ 6.0	6.8	6.6	6.6	6.4	6.6	7.3	7.1	7.0	6.9	6.6	6.0	6.6	
pH high	≤ 9.5	7.2	6.8	7.4	7.6	7.1	7.7	7.9	7.7	7.1	7.3	7.7	7.7	
Flow (m3/month)	—	1,635,802	850,531	4,740,808	7,163,816	11,686,563	9,305,685	5,114,798	7,649,042	4,675,185	2,637,027	2,065,961	1,174,565	
Rainbow Trout	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	1	1	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	1	1	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	As of March 2013, the company name changed from ArcelorMittal Mines Canada to ArcelorMittal Exploitation minière Canada s.e.n.c.													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Mont-Wright (Mine)													
Operator Name	ArcelorMittal Mines Canada - ArcelorMittal Exploitation minière Canada s.e.n.c.													
Product(s)	Iron													
Address	P.O. Box 1817, Route 389, Fermont, Quebec G0G 1J0													
Effluent Discharge Point	MS-2													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	0.0005	0.0006	0.0005	0.0005	0.0005	0.0012	0.0005	0.0005	0.0005	
Cu (mg/L)	0.3	ND	ND	ND	0.0018	0.0033	0.0033	0.0022	0.0033	0.0022	0.0018	0.0020	0.0025	
CN (mg/L)	1.0	ND	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	ND	ND	ND	0.0005	0.0006	0.0005	0.0005	0.0008	0.0005	0.0005	0.0005	0.0005	
Ni (mg/L)	0.5	ND	ND	ND	0.0200	0.0370	0.0504	0.0392	0.0625	0.0434	0.0406	0.0463	0.0510	
Zn (mg/L)	0.5	ND	ND	ND	0.0129	0.0250	0.0140	0.0166	0.0450	0.0494	0.0258	0.0208	0.0220	
TSS (mg/L)	15	ND	ND	ND	15.50	36.00	3.25	4.20	3.75	6.60	4.00	3.50	3.25	
Ra-226 (Bq/L)	0.37	ND	ND	ND	0.0230	0.0500	0.0700	0.0590	0.0470	0.0710	0.0553	0.0480	0.0390	
pH low	≥ 6.0	ND	ND	ND	6.4	6.4	6.1	7.0	6.7	6.6	6.7	6.0	6.8	
pH high	≤ 9.5	ND	ND	ND	6.7	6.8	7.2	7.2	7.3	7.5	7.1	7.5	7.1	
Flow (m3/month)	—	ND	ND	ND	67,200	114,000	111,984	111,072	138,240	143,040	141,360	136,800	141,360	
Rainbow Trout	Pass	ND	ND	ND	1	1	1	1	1	1	3	2	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	1	1	1	1	1	1	2	2	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	1	-	-	
Comments:	As of March 2013, the company name changed from ArcelorMittal Mines Canada to ArcelorMittal Exploitation minière Canada s.e.n.c.													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Mouska (Mine)												
Operator Name		IAMGOLD Corporation												
Product(s)		Gold												
Address		100 Pause Road, Cadillac, Quebec J9P 6M1												
Effluent Discharge Point		Final Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0005	NMR	NMR	0.0005	NMR	NMR	0.0005	NMR	0.0005	0.0005	NMR	NMR	
Cu (mg/L)	0.3	0.0200	0.0280	0.0260	0.0210	0.0170	0.0290	0.0210	0.0180	0.0125	0.0150	0.0190	0.0240	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	0.0200	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0025	NMR	NMR	0.0003	NMR	NMR	0.0009	NMR	0.0008	0.0025	NMR	NMR	
Ni (mg/L)	0.5	0.0021	NMR	NMR	0.0010	NMR	NMR	0.0260	NMR	0.0010	0.0010	NMR	NMR	
Zn (mg/L)	0.5	0.0081	NMR	NMR	0.0092	NMR	NMR	0.0010	NMR	0.0099	0.0070	NMR	NMR	
TSS (mg/L)	15	2.28	2.45	2.75	3.24	2.75	2.20	2.54	2.93	2.75	3.10	2.48	3.78	
Ra-226 (Bq/L)	0.37	0.0025	NMR	NMR	0.0025	NMR	NMR	0.0025	NMR	NMR	0.0025	NMR	NMR	
pH low	≥ 6.0	7.9	7.8	7.9	8.0	8.0	8.0	7.9	8.0	7.8	7.9	7.8	7.7	
pH high	≤ 9.5	7.9	7.9	7.9	8.1	8.1	8.2	8.1	8.2	8.1	8.1	8.0	8.0	
Flow (m3/month)	—	208,201	172,045	207,755	196,776	207,755	184,032	180,801	185,033	195,480	175,944	170,662	163,356	
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Musselwhite Mine												
Operator Name	Goldcorp Canada Ltd												
Product(s)	Gold												
Address	P.O. Box 7500, Thunder Bay, Ontario P7E 6S8												
Effluent Discharge Point	FDP 1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	0.0037	0.0032	0.0033	0.0029	0.0015	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	0.0044	0.0033	0.0034	0.0037	0.0014	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	0.0028	0.0026	0.0020	0.0015	0.0040	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	0.0000	0.0000	0.0000	0.0001	0.0000	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	0.0052	0.0055	0.0048	0.0038	0.0036	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	0.0014	0.0003	0.0003	0.0036	0.0006	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	1.16	1.40	0.95	1.50	1.17	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	0.0050	0.0050	0.0050	0.0050	0.0050	ND	ND
pH low	≥ 6.0	ND	ND	ND	ND	ND	6.9	6.9	7.0	7.3	7.0	ND	ND
pH high	≤ 9.5	ND	ND	ND	ND	ND	7.7	7.2	7.4	7.5	7.2	ND	ND
Flow (m3/month)	—	ND	ND	ND	ND	ND	414,777	448,996	507,593	496,861	44,496	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	1	1	1	1	1	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	1	1	1	1	1	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Myra Falls Operations												
Operator Name		Nyrstar Myra Falls Ltd.												
Product(s)		Copper-Zinc-Lead-Gold-Silver												
Address		P.O. Box 8000, Campbell River, British Columbia V9W 5E2												
Effluent Discharge Point		MF.11A – Runoff Myra Ponds Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0006	0.0004	0.0010	0.0008	0.0008	0.0011	0.0008	0.0009	0.0010	0.0008	0.0008	0.0010	
Cu (mg/L)	0.3	0.0215	0.0237	0.0195	0.0107	0.0291	0.0179	0.0106	0.0276	0.0264	0.0321	0.0228	0.0227	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0013	0.0030	0.0047	0.0024	0.0020	0.0014	0.0014	0.0020	0.0023	0.0055	0.0044	0.0018	
Ni (mg/L)	0.5	0.0013	0.0016	0.0013	0.0010	0.0015	0.0010	0.0009	0.0011	0.0015	0.0020	0.0018	0.0020	
Zn (mg/L)	0.5	0.1954	0.2313	0.1898	0.1088	0.2020	0.1056	0.0619	0.0977	0.1841	0.3556	0.2168	0.1678	
TSS (mg/L)	15	4.92	6.05	8.28	6.43	3.94	3.20	2.22	1.95	3.13	4.38	4.55	4.50	
Ra-226 (Bq/L)	0.37	NMR	0.0100	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	
pH low	≥ 6.0	8.4	7.5	8.9	8.6	8.6	8.8	8.6	8.6	8.8	8.7	8.7	8.8	
pH high	≤ 9.5	8.7	8.8	9.0	8.9	9.0	9.1	9.1	8.9	8.9	8.9	9.2	9.1	
Flow (m3/month)	—	869,968	1,006,142	1,082,937	926,152	1,000,376	943,137	940,382	864,111	961,412	971,692	883,648	819,853	
Rainbow Trout	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Niobec (Mine)												
Operator Name	IAMGOLD Corporation												
Product(s)	Niobium												
Address	3400 Chemin du Columbium, St-Honoré de Chicoutimi, Quebec G0V 1L0												
Effluent Discharge Point	Final Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0073	NMR	NMR	0.0590	-	-	0.0028	-	-	0.0031	-	-
Cu (mg/L)	0.3	0.0040	NMR	NMR	0.0011	NMR	NMR	0.0017	NMR	NMR	0.0020	NMR	NMR
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	0.0006	NMR	NMR	0.0003	NMR	NMR	0.0003	NMR	NMR	0.0003	NMR	NMR
Ni (mg/L)	0.5	0.0150	NMR	NMR	0.0110	NMR	NMR	0.0100	NMR	NMR	0.0110	NMR	NMR
Zn (mg/L)	0.5	0.0720	0.0290	0.0453	0.0750	0.0773	0.1475	0.0462	0.1200	0.1085	0.0586	0.0563	0.0590
TSS (mg/L)	15	8.40	5.35	6.23	12.14	6.68	10.75	9.14	13.23	10.00	12.10	6.40	8.28
Ra-226 (Bq/L)	0.37	0.1348	0.1213	0.1658	0.1208	0.1465	0.1640	0.1372	0.1760	0.1928	0.1796	0.1485	0.1842
pH low	≥ 6.0	7.3	7.4	7.4	6.7	6.8	6.9	7.1	7.0	6.8	6.9	7.2	7.0
pH high	≤ 9.5	7.5	7.5	7.6	7.7	7.2	7.2	7.6	7.6	7.2	7.1	7.4	7.5
Flow (m3/month)	—	473,928	498,624	556,884	500,147	502,066	391,407	248,278	496,936	416,732	490,941	454,680	434,378
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Daphnia magna	Pass	-	NMR	1	1	NMR	NMR	1	NMR	NMR	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No <i>Daphnia magna</i> monitoring results were provided for the month of January. <i>Daphnia magna</i> monitoring tests must be done on each effluent aliquot collected for acute lethality testing. No arsenic test results were provided for the months of May, June, August, September, November and December. Regular (weekly) testing is required if a substance's monthly mean concentration is equal to or greater than 10% of the maximum authorized monthly mean concentration.												
Notes: ND: No Deposit		NMR: No Measurement Required			Pass: ≤50% Mortality			Fail: >50% Mortality					
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Nugget Pond Mine												
Operator Name		Rambler Metals and Mining Canada Ltd.												
Product(s)		Gold												
Address		P.O. Box 291, Baie Verte, Newfoundland and Labrador A0K 1B0												
Effluent Discharge Point		Polishing Pond Effluent												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0025	0.0057	0.0014	0.0023	0.0027	0.0034	0.0031	0.0033	0.0030	0.0026	0.0021	0.0018	
Cu (mg/L)	0.3	0.0725	0.0487	0.0189	0.0236	0.0215	0.0166	0.0125	0.0246	0.0075	0.0082	0.0103	0.0120	
CN (mg/L)	1.0	0.3200	0.3975	0.3167	0.2724	0.2965	0.4178	0.1978	0.2050	0.2500	0.1016	0.1958	0.2800	
Pb (mg/L)	0.2	0.0020	0.0050	0.0373	0.0011	0.0017	0.0013	0.0043	0.0020	0.0026	0.0009	0.0006	0.0007	
Ni (mg/L)	0.5	0.0034	0.0027	0.0014	0.0018	0.0018	0.0013	0.0018	0.0015	0.0010	0.0010	0.0026	0.0013	
Zn (mg/L)	0.5	0.0340	0.0291	0.0104	0.0186	0.0102	0.0378	0.0165	0.0086	0.0075	0.0064	0.0142	0.0240	
TSS (mg/L)	15	6.10	9.50	2.30	0.90	0.50	0.68	1.00	0.78	5.10	1.85	1.38	1.03	
Ra-226 (Bq/L)	0.37	-	-	-	0.0050	0.0100	0.0063	0.0064	0.0063	0.0050	0.0050	0.0050	0.0050	
pH low	≥ 6.0	7.3	7.5	7.3	7.0	7.1	7.4	7.5	7.6	7.6	7.4	7.3	7.2	
pH high	≤ 9.5	7.6	7.7	7.4	7.6	7.6	7.7	7.7	7.8	7.7	8.0	7.4	7.4	
Flow (m3/month)	—	221,875	30,413	144,903	321,516	275,607	134,254	37,554	37,554	93,604	58,575	159,750	95,850	
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:		No radium 226 test results were provided for the first quarter.												
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
		Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.												
		A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Nunavik Nickel (Project)													
Operator Name	Canadian Royalties Inc.													
Product(s)	Nickel-Copper-Cobalt-Platinum-Palladium													
Address	Ungava Peninsula region, Quebec H3B 1X9													
Effluent Discharge Point	Expo Final Effluent													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	0.0005	0.0009	0.0010	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	0.3000	0.0838	0.0545	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	0.0015	0.0015	0.0015	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	0.0003	0.0003	0.0003	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	1.7000	1.4340	0.4400	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	0.0300	0.0198	0.0112	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	13.33	5.17	7.00	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	-	0.0278	0.0350	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	6.9	7.0	6.7	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	8.8	8.9	7.2	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	52,876	153,354	153,354	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	1	3	1	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Daphnia magna	Pass	ND	ND	ND	ND	ND	ND	ND	-	2	1	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	1	1	-	-	-	
Comments:	No radium 226 results were provided for August.													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Nunavik Nickel (Project)													
Operator Name	Canadian Royalties Inc.													
Product(s)	Nickel-Copper-Cobalt-Platinum-Palladium													
Address	Ungava Peninsula region, Quebec H3B 1X9													
Effluent Discharge Point	Mésamax Final Effluent													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	-	-	-	-	-	-	-	0.0005	ND	ND	ND	ND	
Cu (mg/L)	0.3	-	-	-	-	-	-	-	0.0013	ND	ND	ND	ND	
CN (mg/L)	1.0	-	-	-	-	-	-	-	0.0015	ND	ND	ND	ND	
Pb (mg/L)	0.2	-	-	-	-	-	-	-	0.0003	ND	ND	ND	ND	
Ni (mg/L)	0.5	-	-	-	-	-	-	-	0.1200	ND	ND	ND	ND	
Zn (mg/L)	0.5	-	-	-	-	-	-	-	0.0035	ND	ND	ND	ND	
TSS (mg/L)	15	-	-	-	-	-	-	-	8.00	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	-	-	-	-	-	-	-	0.0260	ND	ND	ND	ND	
pH low	≥ 6.0	-	-	-	-	-	-	-	7.0	ND	ND	ND	ND	
pH high	≤ 9.5	-	-	-	-	-	-	-	7.1	ND	ND	ND	ND	
Flow (m3/month)	—	-	-	-	-	-	-	-	53,598	ND	ND	ND	ND	
Rainbow Trout	Pass	-	-	-	-	-	-	-	1	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	-	-	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	1	-	-	-	-	
Comments:	This new final discharge point became subject to the MMER in August 2013.													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Phoenix Gold Project												
Operator Name	Rubicon Minerals Corporation												
Product(s)	Gold												
Address	103 McMarmac Road, Cochenour, Ontario P0V 1L0												
Effluent Discharge Point	South Discharge Point												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	0.0280	0.0298	0.0473	ND	ND	ND	ND	ND
Cu (mg/L)	0.3	-	-	-	-	0.0005	0.0010	0.0013	ND	ND	ND	ND	ND
CN (mg/L)	1.0	-	-	-	-	0.0010	0.0010	0.0015	ND	ND	ND	ND	ND
Pb (mg/L)	0.2	-	-	-	-	0.0005	0.0005	0.0005	ND	ND	ND	ND	ND
Ni (mg/L)	0.5	-	-	-	-	0.0030	0.0037	0.0045	ND	ND	ND	ND	ND
Zn (mg/L)	0.5	-	-	-	-	0.0015	0.0016	0.0024	ND	ND	ND	ND	ND
TSS (mg/L)	15	-	-	-	-	2.70	3.53	7.15	ND	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	-	-	-	-	0.0050	0.0050	0.0050	ND	ND	ND	ND	ND
pH low	≥ 6.0	-	-	-	-	8.2	8.1	8.2	ND	ND	ND	ND	ND
pH high	≤ 9.5	-	-	-	-	8.2	8.4	8.3	ND	ND	ND	ND	ND
Flow (m3/month)	—	-	-	-	-	2,113	63,039	28,620	ND	ND	ND	ND	ND
Rainbow Trout	Pass	-	-	-	-	-	1	1	ND	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	1	ND	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	This mine became subject to the MMER in May 2013. No toxicity test results were provided for the month of May. No test results for <i>Daphnia magna</i> monitoring were provided for the month of June.												
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality			Fail: >50% Mortality				
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Pine Cove Property												
Operator Name		Anaconda Mining Inc.												
Product(s)		Gold												
Address		Pine Cove Road, Pine Cove, Newfoundland and Labrador A0K 1B0												
Effluent Discharge Point		Polishing Pond (formerly Tailings Pond Discharge)												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	NMR	NMR	0.0005	0.0005	NMR	NMR	0.0005	NMR	0.0005	NMR	NMR	0.0005	
Cu (mg/L)	0.3	NMR	NMR	0.0334	0.0140	NMR	NMR	0.0099	NMR	0.0085	NMR	NMR	0.0069	
CN (mg/L)	1.0	1.0900	0.6300	0.2750	0.1627	0.1693	0.2350	0.1800	0.1303	0.2128	0.1101	0.3800	0.0580	
Pb (mg/L)	0.2	NMR	NMR	0.0003	0.0010	NMR	NMR	0.0003	NMR	0.0003	NMR	NMR	0.0003	
Ni (mg/L)	0.5	NMR	NMR	0.0010	0.0010	NMR	NMR	0.0010	NMR	0.0010	NMR	NMR	0.0010	
Zn (mg/L)	0.5	NMR	NMR	0.0025	0.0058	NMR	NMR	0.0025	NMR	0.0025	NMR	NMR	0.0025	
TSS (mg/L)	15	6.60	12.00	5.63	5.13	9.25	2.30	2.24	5.28	2.40	3.80	4.00	8.40	
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0050	0.0100	NMR	NMR	0.0050	NMR	0.0050	NMR	NMR	0.0050	
pH low	≥ 6.0	8.1	8.3	8.0	7.9	7.9	7.9	7.8	8.1	8.0	7.8	8.1	7.8	
pH high	≤ 9.5	8.1	8.3	8.1	8.0	8.2	7.9	8.1	8.2	8.1	8.0	8.1	7.8	
Flow (m3/month)	—	11,734	1,697	14,396	40,367	48,960	49,129	75,443	67,853	57,829	107,635	20,528	48,481	
Rainbow Trout	Pass	NMR	NMR	1	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	NMR	NMR	1	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:		This final discharge point has been renamed as “Polishing Pond”.												
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Podolsky Mine													
Operator Name	FNX Mining Company Inc.													
Product(s)	Copper-Nickel-Palladium-Platinum-Gold													
Address	Box 340, Portelance Road, Capreol, Ontario P0M 1H0													
Effluent Discharge Point	Norman North Bog Outlet													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0016	0.0016	0.0015	0.0005	0.0005	0.0005	0.0023	0.0010	0.0005	0.0007	0.0008	0.0009	
Cu (mg/L)	0.3	0.0052	0.0057	0.0061	0.0053	0.0066	0.0077	0.0055	0.0066	0.0071	0.0049	0.0055	0.0052	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0009	
Ni (mg/L)	0.5	0.1664	0.1378	0.1107	0.0834	0.0738	0.0734	0.0811	0.0795	0.0775	0.0515	0.0698	0.1493	
Zn (mg/L)	0.5	0.0101	0.0081	0.0109	0.0088	0.0047	0.0039	0.0039	0.0062	0.0052	0.0047	0.0074	0.0145	
TSS (mg/L)	15	0.48	0.70	0.94	0.69	1.88	0.85	0.80	2.40	1.43	2.15	1.70	0.64	
Ra-226 (Bq/L)	0.37	0.0050	NMR	NMR	0.0060	NMR	NMR	0.0070	NMR	NMR	0.0070	NMR	NMR	
pH low	≥ 6.0	7.0	7.8	7.5	8.0	7.4	7.9	7.6	7.9	7.8	7.9	8.2	7.8	
pH high	≤ 9.5	8.1	8.2	8.2	8.4	8.3	8.3	8.1	8.0	8.0	8.4	8.4	8.5	
Flow (m3/month)	—	5,239	10,652	34,868	85,607	39,699	12,405	7,651	13,578	8,910	11,315	23,281	12,774	
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Porcupine Gold Mines (Dome Mine)													
Operator Name	Goldcorp Canada Ltd. and Goldcorp Inc.													
Product(s)	Gold													
Address	1 Gold Mine Road, P.O. Box 70, South Porcupine, Ontario P0N 1H0													
Effluent Discharge Point	Mine Effluent Treatment Plant – Dome Mine													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0015	0.0017	0.0009	0.0009	0.0012	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	0.1045	0.0350	0.0229	0.0495	0.0907	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	0.0415	0.0285	0.0280	0.0280	0.0330	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	0.0040	0.0034	0.0034	0.0031	0.0013	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0405	0.0239	0.0231	0.0299	0.0410	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0009	0.0011	0.0006	0.0015	0.0016	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	3.38	2.53	1.52	1.28	2.50	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	0.0050	NMR	NMR	0.0025	NMR	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	7.3	7.1	6.7	6.8	6.7	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	7.5	7.5	7.4	7.7	6.9	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	267,915	607,495	854,058	566,703	211,150	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	1	1	1	1	1	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	1	1	1	1	1	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Porcupine Gold Mines (Dome Mine)												
Operator Name	Goldcorp Canada Ltd. and Goldcorp Inc.												
Product(s)	Gold												
Address	1 Gold Mine Road, P.O. Box 70, South Porcupine, Ontario P0N 1H0												
Effluent Discharge Point	Mine Water Storage Pond – Dome Mine												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0036	0.0019	0.0020	0.0060	0.0171	0.0035	0.0034	0.0038	0.0037	0.0032	0.0059	0.0039
Cu (mg/L)	0.3	0.0027	0.0027	0.0025	0.0025	0.0181	0.0047	0.0026	0.0036	0.0047	0.0026	0.0028	0.0017
CN (mg/L)	1.0	0.0025	0.0025	0.0025	0.0036	0.0025	0.0025	0.0025	0.0025	0.0034	0.0025	0.0025	0.0025
Pb (mg/L)	0.2	0.0080	0.0040	0.0040	0.0040	0.0156	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040
Ni (mg/L)	0.5	0.0240	0.0234	0.0186	0.0194	0.0446	0.0209	0.0210	0.0205	0.0198	0.0191	0.0190	0.0166
Zn (mg/L)	0.5	0.0085	0.0148	0.0083	0.0121	0.0246	0.0082	0.0069	0.0066	0.0072	0.0064	0.0061	0.0047
TSS (mg/L)	15	3.98	2.90	2.30	5.40	4.43	4.75	5.98	5.90	5.62	5.70	6.29	3.78
Ra-226 (Bq/L)	0.37	0.0200	NMR	NMR	NMR	0.0050	NMR	0.0140	NMR	NMR	0.0140	NMR	NMR
pH low	≥ 6.0	7.7	7.9	7.9	7.9	7.9	8.0	8.0	8.0	7.7	8.0	8.0	8.0
pH high	≤ 9.5	8.1	8.1	8.0	8.1	8.1	8.1	8.1	8.0	8.2	8.1	8.3	8.1
Flow (m3/month)	—	42,028	23,627	53,760	112,768	91,847	49,259	74,974	117,451	139,506	103,176	127,620	95,486
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Porcupine Gold Mines (Owl Creek Pit)												
Operator Name		Goldcorp Canada Ltd. and Goldcorp Inc.												
Product(s)		Gold												
Address		1 Gold Mine Road, P.O. Box 70, South Porcupine, Ontario P0N 1H0												
Effluent Discharge Point		Owl Creek Discharge 1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Porcupine Gold Mines (Owl Creek Pit)												
Operator Name		Goldcorp Canada Ltd. and Goldcorp Inc.												
Product(s)		Gold												
Address		1 Gold Mine Road, P.O. Box 70, South Porcupine, Ontario P0N 1H0												
Effluent Discharge Point		Owl Creek Discharge 2												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0020	ND	ND	0.0018	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	0.0027	ND	ND	0.0017	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	0.0025	ND	ND	0.0025	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	0.0029	ND	ND	0.0028	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0055	ND	ND	0.0101	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0016	ND	ND	0.0113	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	2.82	ND	ND	2.13	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	0.0025	ND	ND	0.0500	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	8.2	ND	ND	7.9	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	8.4	ND	ND	8.2	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	97,799	ND	ND	93,690	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	1	ND	ND	1	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	1	ND	ND	1	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Porcupine Gold Mines (Pamour Mine)											
Operator Name		Goldcorp Canada Ltd. and Goldcorp Inc.											
Product(s)		Gold											
Address		1 Gold Mine Road, P.O. Box 70, South Porcupine, Ontario P0N 1H0											
Effluent Discharge Point		Pamour Mine Water											
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.1838	0.3610	0.4243	0.1487	0.1550	0.2337	ND	ND	0.2150	0.1790	0.1287	0.1506
Cu (mg/L)	0.3	0.0049	0.0030	0.0026	0.0011	0.0042	0.0149	ND	ND	0.0045	0.0019	0.0021	0.0020
CN (mg/L)	1.0	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	ND	ND	0.0025	0.0025	0.0025	0.0025
Pb (mg/L)	0.2	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	ND	ND	0.0040	0.0040	0.0040	0.0040
Ni (mg/L)	0.5	0.0548	0.0715	0.0615	0.0279	0.0191	0.0191	ND	ND	0.0185	0.0207	0.0207	0.0323
Zn (mg/L)	0.5	0.0034	0.0044	0.0049	0.0035	0.0039	0.0033	ND	ND	0.0050	0.0018	0.0028	0.0040
TSS (mg/L)	15	1.83	1.90	4.13	4.60	25.70	3.33	ND	ND	2.33	1.55	5.10	5.32
Ra-226 (Bq/L)	0.37	0.0050	NMR	NMR	NMR	NMR	0.0200	ND	ND	0.0110	0.0050	NMR	NMR
pH low	≥ 6.0	7.6	7.5	7.4	7.3	10.0	8.2	ND	ND	7.5	7.9	8.0	7.4
pH high	≤ 9.5	7.9	7.5	7.6	7.3	10.0	9.0	ND	ND	8.4	8.3	8.3	7.8
Flow (m3/month)	—	5,040	1,440	5,040	16,026	15,120	125,530	ND	ND	51,525	10,531	10,064	4,409
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	ND	1	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	ND	1	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Rabbit Lake Operation													
Operator Name	Cameco Corporation													
Product(s)	Uranium													
Address	2121-11th Street West, Saskatoon, Saskatchewan S7M 1J3													
Effluent Discharge Point	Station 2.3.3													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0067	0.0074	0.0072	0.0064	0.0041	0.0039	0.0030	0.0026	0.0052	0.0071	0.0048	0.0077	
Cu (mg/L)	0.3	0.0032	0.0059	0.0055	0.0053	0.0037	0.0030	0.0031	0.0021	0.0029	0.0062	0.0072	0.0066	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0003	
Ni (mg/L)	0.5	0.0042	0.0042	0.0066	0.0063	0.0076	0.0051	0.0043	0.0047	0.0123	0.0338	0.0263	0.0526	
Zn (mg/L)	0.5	0.0012	0.0011	0.0009	0.0009	0.0018	0.0014	0.0016	0.0013	0.0011	0.0013	0.0012	0.0016	
TSS (mg/L)	15	1.00	2.25	2.25	2.40	3.13	0.88	1.20	1.13	1.00	1.38	1.75	2.60	
Ra-226 (Bq/L)	0.37	0.0025	0.0074	0.0055	0.0085	0.0058	0.0044	0.0053	0.0034	0.0086	0.0074	0.0044	0.0136	
pH low	≥ 6.0	7.1	7.2	7.2	7.1	6.9	6.4	7.0	6.9	7.0	7.1	7.0	7.2	
pH high	≤ 9.5	7.5	7.3	7.5	7.6	7.5	7.2	7.4	7.3	7.4	7.7	7.5	7.3	
Flow (m3/month)	—	231,516	217,501	230,074	331,941	435,267	447,600	460,058	416,104	395,678	388,715	357,251	340,657	
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Raglan (Mine)													
Operator Name	Xstrata Canada Corporation / Glencore Canada Corporation													
Product(s)	Nickel-Copper-Cobalt-Platinum-Palladium													
Address	120 Avenue de l'Aéroport, Rouyn-Noranda, Quebec J9Y 0G1													
Effluent Discharge Point	DIR-HSA													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	As of July 30, 2013, the ownership of Raglan Mine was transferred from Xstrata Canada Corporation to Glencore Canada Corporation.													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Raglan (Mine)													
Operator Name	Xstrata Canada Corporation / Glencore Canada Corporation													
Product(s)	Nickel-Copper-Cobalt-Platinum-Palladium													
Address	120 Avenue de l'Aéroport, Rouyn-Noranda, Quebec J9Y 0G1													
Effluent Discharge Point	DIR-SPOON													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	0.0007	0.0003	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	0.0082	0.0044	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	NMR	NMR	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	0.0002	0.0015	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	0.2176	0.1018	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	0.0105	0.0005	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	0.75	0.83	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	0.0020	NMR	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	7.0	6.2	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	7.1	7.0	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	109,525	153,051	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	1	1	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	1	1	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	As of July 30, 2013, the ownership of Raglan Mine was transferred from Xstrata Canada Corporation to Glencore Canada Corporation.													
Notes:	ND: No Deposit			NMR: No Measurement Required			Pass: ≤50% Mortality			Fail: >50% Mortality				
	Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
	A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Raglan (Mine)												
Operator Name		Xstrata Canada Corporation / Glencore Canada Corporation												
Product(s)		Nickel-Copper-Cobalt-Platinum-Palladium												
Address		120 Avenue de l'Aéroport, Rouyn-Noranda, Quebec J9Y 0G1												
Effluent Discharge Point		DIR-UT												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	0.0046	0.0029	0.0059	0.0050	0.0043	0.0018	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	0.0008	0.0015	0.0027	0.0010	0.0010	0.0011	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	0.0002	0.0012	0.0013	0.0003	0.0007	0.0002	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	0.1496	0.4299	0.3193	0.2045	0.1385	0.0784	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	0.0009	0.0010	0.0009	0.0016	0.0019	0.0025	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	2.1250	1.0000	2.1250	1.6000	2.0000	4.5000	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	0.0010	0.0010	NMR	NMR	0.0050	0.0010	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	7.7	6.5	7.7	8.3	8.2	8.7	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	8.3	8.5	8.1	8.8	8.7	8.8	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	53,604	97,309	101,092	102,330	125,790	40,251	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	1	1	1	1	1	1	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	1	-	-	1	1	1	ND	
Monitoring Test	Fail	-	-	-	-	-	-	1	1	-	-	-	-	
Comments:		As of July 30, 2013, the ownership of Raglan Mine was transferred from Xstrata Canada Corporation to Glencore Canada Corporation.												
Notes:		ND: No Deposit			NMR: No Measurement Required			Pass: ≤50% Mortality			Fail: >50% Mortality			
		Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.												
		A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Raglan (Mine)												
Operator Name	Xstrata Canada Corporation / Glencore Canada Corporation												
Product(s)	Nickel-Copper-Cobalt-Platinum-Palladium												
Address	120 Avenue de l'Aéroport, Rouyn-Noranda, Quebec J9Y 0G1												
Effluent Discharge Point	DIR-Z3												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	0.0024	0.0006	0.0008	0.0006	0.0013	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	0.0004	0.0003	0.0008	0.0007	0.0006	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	NMR	NMR	NMR	NMR	NMR	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	0.0047	0.0013	0.0022	0.0008	0.0007	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	0.2906	0.1734	0.2849	0.2653	0.2865	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	0.0005	0.0010	0.0024	0.0025	0.0033	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	0.75	0.90	1.00	0.90	1.00	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	0.0020	0.0010	0.0010	NMR	0.0040	ND	ND
pH low	≥ 6.0	ND	ND	ND	ND	ND	8.1	7.6	7.6	7.2	7.0	ND	ND
pH high	≤ 9.5	ND	ND	ND	ND	ND	8.1	8.5	8.4	8.2	8.2	ND	ND
Flow (m3/month)	—	ND	ND	ND	ND	ND	60,472	188,267	168,586	188,678	132,670	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	1	1	1	1	1	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	1	-	1	1	1	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	1	-	-	-	-	-
Comments:	As of July 30, 2013, the ownership of Raglan Mine was transferred from Xstrata Canada Corporation to Glencore Canada Corporation.												
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Red Lake Mine												
Operator Name		Goldcorp Canada Ltd.												
Product(s)		Gold												
Address		General Delivery, Balmertown, Ontario P0V 1C0												
Effluent Discharge Point		G1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Red Lake Mine												
Operator Name	Goldcorp Canada Ltd.												
Product(s)	Gold												
Address	General Delivery, Balmertown, Ontario P0V 1C0												
Effluent Discharge Point	G2												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	0.0185	0.0471	0.0552	0.2228	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	0.0010	0.0015	0.0017	0.0020	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	0.0179	0.0083	0.0110	0.0085	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	0.0002	0.0002	0.0002	0.0002	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	0.0128	0.0148	0.0205	0.0193	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	0.0050	0.0050	0.0050	0.0050	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	11.43	5.75	6.23	9.60	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	0.0050	0.0050	0.0050	0.0050	ND	ND	ND
pH low	≥ 6.0	ND	ND	ND	ND	ND	6.3	6.6	6.5	6.5	ND	ND	ND
pH high	≤ 9.5	ND	ND	ND	ND	ND	6.7	6.9	6.9	6.9	ND	ND	ND
Flow (m3/month)	—	ND	ND	ND	ND	ND	63,590	35,830	131,540	59,500	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	1	1	1	1	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	1	1	1	1	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Red Lake Mine													
Operator Name	Goldcorp Canada Ltd.													
Product(s)	Gold													
Address	General Delivery, Balmertown, Ontario P0V 1C0													
Effluent Discharge Point	Shaft 3 Mine Water Settling Pond													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Redstone Mine													
Operator Name	Liberty Mines Inc. / Northern Sun Mining Corp.													
Product(s)	Nickel													
Address	P.O. Box 398, South Porcupine, Ontario P0N 1H0													
Effluent Discharge Point	RSD-2													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	As of October 21, 2013, the ownership of Redstone Mine was transferred from Liberty Mines Inc. to Northern Sun Mining Corp.													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Restigouche Mine												
Operator Name	Blue Note Mining Inc. / Province of New Brunswick												
Product(s)	Zinc-Lead-Copper-Silver												
Address	9361 Route 180, P.O. Box 26, Bathurst, New Brunswick E2A 3Z1												
Effluent Discharge Point	Mixing Structure Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Cu (mg/L)	0.3	-	-	-	-	-	-	-	-	-	-	-	-
CN (mg/L)	1.0	-	-	-	-	-	-	-	-	-	-	-	-
Pb (mg/L)	0.2	-	-	-	-	-	-	-	-	-	-	-	-
Ni (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
Zn (mg/L)	0.5	-	-	-	-	-	-	-	-	-	-	-	-
TSS (mg/L)	15	-	-	-	-	-	-	-	-	-	-	-	-
Ra-226 (Bq/L)	0.37	-	-	-	-	-	-	-	-	-	-	-	-
pH low	≥ 6.0	-	-	-	-	-	-	-	-	-	-	-	-
pH high	≤ 9.5	-	-	-	-	-	-	-	-	-	-	-	-
Flow (m3/month)	—	-	-	-	-	-	-	-	-	-	-	-	-
Rainbow Trout	Pass	-	-	-	-	-	-	-	-	-	-	-	-
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	-	-	-	-	-	-	-	-
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No effluent data were reported in 2013.												
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Rice Lake Gold Mine												
Operator Name		San Gold Corporation												
Product(s)		Gold												
Address		63 San Antonio Road, Bissett, Manitoba R0E 0V0												
Effluent Discharge Point		FDP1 – End of Pipe												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Santoy 7 Mine													
Operator Name	Claude Resources Inc.													
Product(s)	Gold													
Address	219 Robin Crescent, Saskatoon, Saskatchewan S7L 6M8													
Effluent Discharge Point	Santoy 7 Settling Pond													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Santoy 8 Mine												
Operator Name	Claude Resources Inc.												
Product(s)	Gold												
Address	219 Robin Crescent, Saskatoon, Saskatchewan S7L 6M8												
Effluent Discharge Point	S8SP Final Discharge Point												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0009	0.0010	0.0016	ND	ND	ND	0.0006	0.0006	ND	ND	ND	ND
Cu (mg/L)	0.3	0.0053	0.0053	0.0122	ND	ND	ND	0.0028	0.0022	ND	ND	ND	ND
CN (mg/L)	1.0	0.0060	0.0063	0.0035	ND	ND	ND	0.0020	0.0024	ND	ND	ND	ND
Pb (mg/L)	0.2	0.0004	0.0005	0.0008	ND	ND	ND	0.0001	0.0001	ND	ND	ND	ND
Ni (mg/L)	0.5	0.0043	0.0040	0.0028	ND	ND	ND	0.0029	0.0030	ND	ND	ND	ND
Zn (mg/L)	0.5	0.0066	0.0073	0.0640	ND	ND	ND	0.0034	0.0031	ND	ND	ND	ND
TSS (mg/L)	15	1.60	1.75	11.50	ND	ND	ND	0.50	1.20	ND	ND	ND	ND
Ra-226 (Bq/L)	0.37	0.0067	0.0081	0.0130	ND	ND	ND	0.0062	0.0124	ND	ND	ND	ND
pH low	≥ 6.0	6.9	6.9	6.8	ND	ND	ND	7.1	7.1	ND	ND	ND	ND
pH high	≤ 9.5	7.4	7.4	6.9	ND	ND	ND	7.2	7.6	ND	ND	ND	ND
Flow (m3/month)	—	16,150	12,348	2,340	ND	ND	ND	8,890	26,700	ND	ND	ND	ND
Rainbow Trout	Pass	1	1	1	ND	ND	ND	1	1	ND	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	ND	ND	ND	1	1	ND	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		ScoZinc Limited - Scotia Mine												
Operator Name		Selwyn Resources Ltd.												
Product(s)		Zinc-Lead												
Address		15601 Highway 224, Cooks Brook, Nova Scotia B0N 2H0												
Effluent Discharge Point		Polishing Pond Outlet												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0006	0.0003	0.0009	0.0016	0.0015	0.0015	0.0026	0.0024	0.0022	0.0021	0.0019	0.0003	
Cu (mg/L)	0.3	0.0037	0.0006	0.0013	0.0031	0.0098	0.0076	0.0049	0.0048	0.0053	0.0051	0.0035	0.0013	
CN (mg/L)	1.0	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0005	0.0011	0.0018	0.0005	0.0017	0.0005	
Pb (mg/L)	0.2	0.0012	0.0002	0.0020	0.0015	0.0015	0.0011	0.0005	0.0005	0.0042	0.0011	0.0023	0.0009	
Ni (mg/L)	0.5	0.0012	0.0003	0.0008	0.0007	0.0006	0.0008	0.0008	0.0005	0.0013	0.0009	0.0007	0.0005	
Zn (mg/L)	0.5	0.0680	0.0173	0.0380	0.0530	0.0270	0.0213	0.0143	0.0109	0.0133	0.0203	0.0249	0.0391	
TSS (mg/L)	15	1.92	2.15	1.80	2.87	2.10	2.12	1.10	1.75	2.56	2.35	3.63	3.46	
Ra-226 (Bq/L)	0.37	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR	
pH low	≥ 6.0	7.1	6.4	7.1	7.7	7.5	7.3	7.5	7.6	7.5	7.3	7.2	6.3	
pH high	≤ 9.5	7.1	6.4	7.1	7.7	7.6	7.6	7.7	7.8	7.6	7.4	7.3	7.3	
Flow (m3/month)	—	313,787	371,628	558,180	164,378	59,749	263,965	228,017	59,842	83,085	307,280	674,076	1,496,253	
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Seabee Gold Mine												
Operator Name	Claude Resources Inc.												
Product(s)	Gold												
Address	P.O.Box 1230, La Ronge, Saskatchewan S0J 1L0												
Effluent Discharge Point	Final Discharge Point 1.2												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002
Cu (mg/L)	0.3	0.0130	0.0090	0.0092	0.0087	0.0160	0.0130	0.0140	0.0120	0.0150	0.0120	0.0091	0.0100
CN (mg/L)	1.0	0.0005	0.0020	0.0010	0.0020	0.0005	0.0005	0.0010	0.0005	0.0030	0.0035	0.0060	0.0070
Pb (mg/L)	0.2	0.0009	0.0009	0.0007	0.0004	0.0005	0.0003	0.0002	0.0003	0.0005	0.0003	0.0003	0.0004
Ni (mg/L)	0.5	0.0260	0.0270	0.0250	0.0250	0.0260	0.0240	0.0300	0.0310	0.0330	0.0390	0.0290	0.0290
Zn (mg/L)	0.5	0.0120	0.0082	0.0068	0.0070	0.0090	0.0052	0.0090	0.0080	0.0083	0.0155	0.0160	0.0140
TSS (mg/L)	15	12.40	10.00	9.50	10.80	7.25	5.00	5.60	9.50	7.25	5.00	8.50	7.60
Ra-226 (Bq/L)	0.37	0.0100	0.0025	0.0060	0.0080	0.0025	0.0025	0.0025	0.0025	0.0100	0.0048	0.0025	0.0090
pH low	≥ 6.0	7.5	7.4	7.6	7.5	7.4	7.5	7.5	7.6	7.6	7.5	7.5	7.5
pH high	≤ 9.5	7.8	7.8	7.9	8.1	8.0	8.0	7.9	7.9	8.0	7.9	8.0	7.8
Flow (m3/month)	—	66,784	64,327	63,323	64,877	68,158	67,252	73,423	68,482	69,527	68,918	64,217	61,288
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Seabee Gold Mine													
Operator Name	Claude Resources Inc.													
Product(s)	Gold													
Address	P.O.Box 1230, La Ronge, Saskatchewan S0J 1L0													
Effluent Discharge Point	Final Discharge Point 1.3													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Seabee Gold Mine												
Operator Name	Claude Resources Inc.												
Product(s)	Gold												
Address	P.O.Box 1230, La Ronge, Saskatchewan S0J 1L0												
Effluent Discharge Point	Final Discharge Point 1.5												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	0.0013	0.0009	0.0009	0.0008	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	0.0255	0.0170	0.0213	0.0165	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	0.0038	0.0036	0.0078	0.0075	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	0.0002	0.0002	0.0003	0.0003	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	0.0140	0.0122	0.0143	0.0155	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	0.0061	0.0029	0.0023	0.0023	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	6.38	0.80	2.50	1.50	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	0.0025	0.0079	0.0031	0.0063	ND	ND	ND
pH low	≥ 6.0	ND	ND	ND	ND	ND	6.6	6.8	6.9	7.2	ND	ND	ND
pH high	≤ 9.5	ND	ND	ND	ND	ND	6.9	7.6	7.7	7.2	ND	ND	ND
Flow (m3/month)	—	ND	ND	ND	ND	ND	20,924	32,752	33,768	6,864	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	1	1	1	1	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	1	1	1	1	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Shakespeare Nickel Mine												
Operator Name		URSA Major Minerals Inc. / Wellgreen Platinum Ltd.												
Product(s)		Nickel-Copper-Cobalt-Gold-Platinum-Palladium												
Address		Lots 1 and 2, Concession 5, Shakespeare Township, Ontario												
Effluent Discharge Point		MISA Weir												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	0.0005	0.0005	ND	ND	ND	ND	0.0005	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	0.0022	0.0065	ND	ND	ND	ND	0.0039	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	NMR	NMR	ND	ND	ND	ND	NMR	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	0.0005	0.0006	ND	ND	ND	ND	0.0006	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	0.0294	0.0375	ND	ND	ND	ND	0.2634	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	0.0138	0.0044	ND	ND	ND	ND	0.0068	ND	ND	
TSS (mg/L)	15	ND	ND	ND	2.50	1.14	ND	ND	ND	ND	1.43	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	0.0025	0.0040	ND	ND	ND	ND	0.0025	ND	ND	
pH low	≥ 6.0	ND	ND	ND	7.6	8.2	ND	ND	ND	ND	7.7	ND	ND	
pH high	≤ 9.5	ND	ND	ND	7.6	8.4	ND	ND	ND	ND	8.4	ND	ND	
Flow (m3/month)	—	ND	ND	ND	34,422	40,635	ND	ND	ND	ND	33,195	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	1	-	ND	ND	ND	ND	1	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	1	-	ND	ND	ND	ND	1	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:		As a result of a corporate merger in 2012, the ownership of the facility was transferred from URSA Major Minerals Inc. to Wellgreen Platinum Ltd. No toxicity test results were provided for the month of May.												
Notes:		ND: No Deposit			NMR: No Measurement Required			Pass: ≤50% Mortality			Fail: >50% Mortality			
		Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.												
		A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Sigma (Mine)													
Operator Name	Century Mining Corporation													
Product(s)	Gold													
Address	300 3rd Avenue, Val-d'Or, Quebec J9P 4N9													
Effluent Discharge Point	Final Effluent EFF1													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	0.0005	0.0003	0.0007	0.0007	0.0004	0.0003	0.0003	0.0003	ND	
Cu (mg/L)	0.3	ND	ND	ND	0.0023	0.0024	0.0013	0.0078	0.0014	0.0013	0.0022	0.0071	ND	
CN (mg/L)	1.0	ND	ND	ND	0.0130	0.0107	0.0100	0.0150	0.0345	0.0291	0.0358	0.0217	ND	
Pb (mg/L)	0.2	ND	ND	ND	0.0002	0.0005	0.0230	0.0003	0.0006	0.0007	0.0002	0.0009	ND	
Ni (mg/L)	0.5	ND	ND	ND	0.0014	0.0034	0.0048	0.0052	0.0047	0.0030	0.0036	0.0041	ND	
Zn (mg/L)	0.5	ND	ND	ND	0.0025	0.0028	0.0025	0.0196	0.0020	0.0030	0.0206	0.0017	ND	
TSS (mg/L)	15	ND	ND	ND	0.50	2.83	4.50	4.63	0.88	2.80	1.88	0.67	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	0.0010	0.0010	0.0010	0.0010	0.0014	0.0012	0.0013	0.0010	ND	
pH low	≥ 6.0	ND	ND	ND	7.4	7.8	7.7	7.4	7.5	7.4	7.5	7.7	ND	
pH high	≤ 9.5	ND	ND	ND	7.4	7.9	8.0	7.7	7.8	7.7	7.9	7.8	ND	
Flow (m3/month)	—	ND	ND	ND	29,952	261,055	211,247	121,694	277,717	241,453	177,635	173,139	ND	
Rainbow Trout	Pass	ND	ND	ND	1	-	-	1	1	1	1	-	ND	
Acute Lethality Test	Fail	-	-	-	-	1	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	-	1	1	-	1	1	1	-	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	No test results for <i>Daphnia magna</i> monitoring were provided for April and July. No test results for acute lethality were provided for June. No toxicity test results were provided for the month of November.													
Notes:	ND: No Deposit	NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
	Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
	A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Snow Lake Mill													
Operator Name	Hudson Bay Mining and Smelting Co. Ltd. - Hudbay Minerals Inc.													
Product(s)	Copper-Zinc-Selenium-Tellurium-Silver													
Address	P.O. Box 1500, Flin Flon, Manitoba R8A 1N9													
Effluent Discharge Point	Anderson Lake Discharge													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	0.0020	0.0018	0.0020	0.0022	0.0023	ND	0.0024	0.0015	ND	
Cu (mg/L)	0.3	ND	ND	ND	0.0040	0.0063	0.0050	0.0040	0.0040	ND	0.0110	0.0165	ND	
CN (mg/L)	1.0	ND	ND	ND	NMR	NMR	NMR	NMR	NMR	ND	NMR	NMR	ND	
Pb (mg/L)	0.2	ND	ND	ND	0.0100	0.0100	0.0100	0.0100	0.0100	ND	0.0079	0.0100	ND	
Ni (mg/L)	0.5	ND	ND	ND	0.0035	0.0035	0.0035	0.0035	0.0035	ND	0.0029	0.0035	ND	
Zn (mg/L)	0.5	ND	ND	ND	0.0570	0.0683	0.0305	0.0224	0.0228	ND	0.0858	0.1340	ND	
TSS (mg/L)	15	ND	ND	ND	1.90	2.14	3.70	1.43	2.08	ND	2.00	1.23	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	0.0100	0.0052	0.0025	0.0060	0.0000	ND	0.0090	0.0000	ND	
pH low	≥ 6.0	ND	ND	ND	7.4	7.2	7.6	7.1	7.2	ND	7.8	8.0	ND	
pH high	≤ 9.5	ND	ND	ND	7.4	8.3	8.4	7.9	8.4	ND	9.1	8.7	ND	
Flow (m3/month)	—	ND	ND	ND	53,991	586,993	494,394	680,107	824,157	ND	946,864	568,118	ND	
Rainbow Trout	Pass	ND	ND	ND	1	1	1	1	1	ND	-	2	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	1	1	1	1	1	ND	-	2	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	No toxicity test results were provided for October. As of 2012, the company name changed from Hudson Bay Mining and Smelting Co. Ltd. to HudBay Minerals Inc.													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Snow Lake Mine												
Operator Name		QMX Gold Corporation												
Product(s)		Gold												
Address		P.O. Box 451, 114 Cedar Street, Snow Lake, Manitoba R0B 1M0												
Effluent Discharge Point		SWM-03 (Birch Lake Outlet Embankment Decant Discharge)												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Strathcona Tailings Treatment System - Sudbury Integrated Nickel Operations - Strathcona												
Operator Name		Xstrata Canada Corporation / Glencore Canada Corporation												
Product(s)		Nickel-Copper-Cobalt-Platinum-Palladium												
Address		Onaping, Ontario P0M 2R0												
Effluent Discharge Point		Fecunis RR Bridge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0025	0.0033	0.0017	0.0024	0.0012	0.0016	0.0011	0.0011	0.0011	0.0010	0.0008	0.0009	
Cu (mg/L)	0.3	0.0104	0.0062	0.0241	0.0222	0.0104	0.0115	0.0086	0.0102	0.0038	0.0053	0.0120	0.0054	
CN (mg/L)	1.0	0.0005	0.0005	0.0005	0.0005	0.0005	0.0009	0.0006	0.0009	0.0011	0.0006	0.0016	0.0005	
Pb (mg/L)	0.2	0.0007	0.0008	0.0001	0.0023	0.0002	0.0004	0.0009	0.0001	0.0001	0.0006	0.0004	0.0002	
Ni (mg/L)	0.5	0.0864	0.0830	0.1350	0.0974	0.0512	0.0362	0.0420	0.0399	0.0351	0.0310	0.0449	0.0646	
Zn (mg/L)	0.5	0.0066	0.0067	0.0085	0.0092	0.0036	0.0108	0.0267	0.0043	0.0001	0.0032	0.0033	0.0038	
TSS (mg/L)	15	0.30	0.10	0.58	0.83	0.51	0.41	1.20	0.60	0.34	0.32	0.35	0.18	
Ra-226 (Bq/L)	0.37	0.0200	NMR	NMR	NMR	NMR	0.0050	0.0130	NMR	NMR	0.0050	NMR	NMR	
pH low	≥ 6.0	7.3	7.4	7.2	7.4	7.2	7.3	7.4	6.8	7.2	6.9	7.0	7.2	
pH high	≤ 9.5	7.7	7.6	7.5	7.5	7.6	7.5	7.5	7.5	7.5	7.5	7.5	7.6	
Flow (m3/month)	—	1,689,780	1,816,779	2,328,761	3,905,858	4,180,470	2,452,758	1,131,943	1,005,912	1,214,329	867,150	1,798,436	2,375,072	
Rainbow Trout	Pass	2	NMR	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	2	NMR	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	As of July 30, 2013, the ownership of the facility was transferred from Xstrata Canada Corporation to Glencore Canada Corporation and the facility name was changed to "Sudbury Integrated Nickel Operations - Strathcona".													
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Tanco Mine												
Operator Name	Tantalum Mining Corporation of Canada Ltd.												
Product(s)	Tantalum-Lithium-Cesium-Rubidium												
Address	P.O. Box 2000, Lac du Bonnet, Manitoba R0E 1A0												
Effluent Discharge Point	West Discharge (Compliance Point)												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	NMR	0.0056	NMR	NMR	0.0049	NMR	0.0131	NMR	NMR	0.0078	NMR	NMR
Cu (mg/L)	0.3	NMR	0.0024	NMR	NMR	0.0010	NMR	0.0006	NMR	NMR	0.0007	NMR	NMR
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR
Pb (mg/L)	0.2	NMR	0.0003	NMR	NMR	0.0001	NMR	0.0002	NMR	NMR	0.0001	NMR	NMR
Ni (mg/L)	0.5	NMR	0.0051	NMR	NMR	0.0025	NMR	0.0024	NMR	NMR	0.0012	NMR	NMR
Zn (mg/L)	0.5	NMR	0.0043	NMR	NMR	0.0022	NMR	0.0047	NMR	NMR	0.0027	NMR	NMR
TSS (mg/L)	15	3.54	4.68	8.95	5.70	6.10	11.30	10.02	NMR	NMR	9.16	7.50	3.68
Ra-226 (Bq/L)	0.37	NMR	0.0090	NMR	NMR	0.0060	NMR	0.0140	NMR	NMR	0.0025	NMR	NMR
pH low	≥ 6.0	6.9	6.6	6.5	6.7	6.6	8.0	7.3	7.6	7.9	7.4	7.6	7.1
pH high	≤ 9.5	7.7	7.5	7.9	7.7	7.6	9.0	8.1	8.3	8.4	7.9	8.0	7.6
Flow (m3/month)	—	79,868	86,254	117,444	116,783	269,285	176,775	144,088	177,227	168,503	210,416	168,173	118,901
Rainbow Trout	Pass	NMR	1	NMR	NMR	-	2	1	1	1	1	1	1
Acute Lethality Test	Fail	-	-	-	-	1	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	1	2	1	1	1	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Thompson Complex													
Operator Name	Vale Canada Ltd.													
Product(s)	Nickel-Copper													
Address	P.O. Box 5000, Thompson, Manitoba R8N 1P3													
Effluent Discharge Point	Misery Weir													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0088	0.0091	0.0095	0.0094	0.0068	0.0067	0.0098	0.0068	0.0069	0.0057	0.0050	0.0059	
Cu (mg/L)	0.3	0.0100	0.0050	0.0050	0.0060	0.0063	0.0050	0.0050	0.0088	0.0100	0.0080	0.0088	0.0125	
CN (mg/L)	1.0	NMR	0.0010	NMR	NMR	0.0010	NMR	0.0010	NMR	0.0010	0.0010	NMR	NMR	
Pb (mg/L)	0.2	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	
Ni (mg/L)	0.5	0.3555	0.3780	0.3230	0.2852	0.1740	0.1520	0.1720	0.2050	0.1825	0.2120	0.2600	0.2800	
Zn (mg/L)	0.5	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0288	
TSS (mg/L)	15	3.20	4.40	5.80	2.88	2.85	5.20	4.20	6.90	10.10	3.00	1.90	1.35	
Ra-226 (Bq/L)	0.37	NMR	0.0025	NMR	NMR	0.0050	NMR	0.0050	NMR	0.0050	0.0050	NMR	NMR	
pH low	≥ 6.0	8.3	8.5	8.8	8.8	8.8	8.5	8.4	8.3	7.8	7.4	7.9	7.8	
pH high	≤ 9.5	8.4	8.9	8.9	9.0	9.0	8.8	8.6	8.5	7.9	8.2	8.1	8.3	
Flow (m3/month)	—	1,720,678	2,383,689	2,254,746	1,955,238	3,030,638	3,261,288	2,798,066	2,330,208	1,542,743	2,630,784	2,044,193	1,685,819	
Rainbow Trout	Pass	NMR	1	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	NMR	1	NMR	NMR	1	NMR	1	NMR	NMR	1	NMR	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Thompson Complex												
Operator Name	Vale Canada Ltd.												
Product(s)	Nickel-Copper												
Address	P.O. Box 5000, Thompson, Manitoba R8N 1P3												
Effluent Discharge Point	Station B												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0045	0.0045	0.0041	0.0047	0.0236	0.0112	0.0122	0.0120	0.0112	0.0064	0.0051	0.0046
Cu (mg/L)	0.3	0.0250	0.0085	0.0175	0.0150	0.0200	0.0130	0.0190	0.0200	0.0200	0.0140	0.0100	0.0175
CN (mg/L)	1.0	NMR	0.0010	NMR	NMR	0.0010	NMR	0.0010	NMR	0.0010	0.0010	NMR	NMR
Pb (mg/L)	0.2	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150	0.0150
Ni (mg/L)	0.5	0.0695	0.0744	0.0815	0.0716	0.0900	0.0760	0.0640	0.0875	0.0550	0.1220	0.0825	0.0750
Zn (mg/L)	0.5	0.0120	0.0050	0.0068	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0075
TSS (mg/L)	15	6.00	3.20	3.30	4.32	12.30	10.56	10.68	5.35	3.95	10.56	3.10	1.35
Ra-226 (Bq/L)	0.37	NMR	0.0025	NMR	NMR	0.0050	NMR	0.0050	NMR	0.0050	0.0050	NMR	NMR
pH low	≥ 6.0	7.3	7.3	7.3	7.3	7.3	7.4	7.5	7.2	7.4	7.4	7.4	7.3
pH high	≤ 9.5	7.5	7.6	7.5	7.4	7.8	7.7	7.8	7.5	7.7	7.7	7.7	7.7
Flow (m3/month)	—	950,848	501,984	696,384	969,402	1,647,216	1,327,104	1,135,642	642,816	609,120	1,467,763	1,632,960	1,687,392
Rainbow Trout	Pass	-	1	-	-	1	-	1	-	-	1	-	-
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	1	-	-	1	-	1	-	-	1	-	-
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	No toxicity test results were provided for January, March, April, June, August, September, November and December. In order to reduce frequency of testing for acute lethality, 12 consecutive monthly tests must be conducted successfully.												
Notes:	ND: No Deposit			NMR: No Measurement Required			Pass: ≤50% Mortality			Fail: >50% Mortality			
	Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.												
	A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.												

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Timmins West Complex													
Operator Name	Lake Shore Gold Corporation													
Product(s)	Gold													
Address	8215 Highway 101 West, Timmins, Ontario P4N 7H9													
Effluent Discharge Point	TR-1													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0081	0.0094	0.0090	0.0082	0.0089	0.0108	0.0119	0.0143	0.0117	0.0128	0.0120	0.0107	
Cu (mg/L)	0.3	0.0036	0.0030	0.0036	0.0033	0.0033	0.0059	0.0028	0.0030	0.0062	0.0053	0.0054	0.0047	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0003	0.0006	0.0005	0.0014	0.0005	0.0004	0.0005	0.0003	0.0005	0.0005	0.0005	0.0006	
Ni (mg/L)	0.5	0.0066	0.0055	0.0059	0.0055	0.0057	0.0064	0.0053	0.0080	0.0055	0.0058	0.0066	0.0047	
Zn (mg/L)	0.5	0.0202	0.0083	0.0128	0.0120	0.0128	0.0178	0.0190	0.0160	0.0237	0.0243	0.0235	0.0246	
TSS (mg/L)	15	1.40	1.25	1.50	2.00	3.00	5.50	3.00	2.75	2.75	1.70	1.90	0.80	
Ra-226 (Bq/L)	0.37	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	0.0025	NMR	0.0025	NMR	NMR	
pH low	≥ 6.0	6.9	7.4	7.1	7.1	7.2	6.8	6.6	6.9	6.7	6.7	6.7	6.3	
pH high	≤ 9.5	7.6	7.8	7.5	7.2	7.4	7.1	7.6	7.2	6.9	7.1	6.9	7.4	
Flow (m3/month)	—	24,777	16,347	23,186	26,971	32,629	29,127	26,585	28,034	28,501	29,270	27,746	25,278	
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Tio (Mine)													
Operator Name	QIT-Fer et Titane Inc.													
Product(s)	Iron-Titanium													
Address	951 De l'Escafe Boulevard, Havre-Saint-Pierre, Quebec G0G 1P0													
Effluent Discharge Point	E-Lac 166													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	0.0005	0.0005	0.0005	0.0005	0.0005	0.0036	0.0005	0.0005	0.0005	ND	
Cu (mg/L)	0.3	ND	ND	0.0030	0.0030	0.0038	0.0026	0.0024	0.0009	0.0035	0.0032	0.0030	ND	
CN (mg/L)	1.0	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	ND	
Pb (mg/L)	0.2	ND	ND	0.0005	0.0005	0.0005	0.0005	0.0006	0.0005	0.0005	0.0005	0.0005	ND	
Ni (mg/L)	0.5	ND	ND	0.3605	0.2690	0.3095	0.4205	0.3440	0.3603	0.3690	0.3746	0.3970	ND	
Zn (mg/L)	0.5	ND	ND	0.0265	0.0302	0.0770	0.0635	0.0352	0.0395	0.0450	0.0450	0.0510	ND	
TSS (mg/L)	15	ND	ND	1.00	0.60	0.63	0.50	2.60	0.63	1.38	0.50	0.50	ND	
Ra-226 (Bq/L)	0.37	ND	ND	0.0010	NMR	0.0020	NMR	NMR	0.0010	NMR	NMR	0.0010	ND	
pH low	≥ 6.0	ND	ND	6.6	6.1	6.6	6.5	6.6	6.7	6.7	6.8	6.8	ND	
pH high	≤ 9.5	ND	ND	7.0	6.8	6.9	7.0	6.8	6.9	6.9	7.2	6.9	ND	
Flow (m3/month)	—	ND	ND	13,411	12,394	26,449	8,300	2,808	4,328	21,602	9,946	22,664	ND	
Rainbow Trout	Pass	ND	ND	1	1	1	1	1	1	1	1	1	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	1	1	1	1	1	1	1	1	1	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Tio (Mine)													
Operator Name	QIT-Fer et Titane Inc.													
Product(s)	Iron-Titanium													
Address	951 De l'Escaie Boulevard, Havre-Saint-Pierre, Quebec G0G 1P0													
Effluent Discharge Point	Lake 211.4													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	0.0005	0.0005	0.0005	0.0005	0.0039	0.0005	0.0005	0.0005	ND	
Cu (mg/L)	0.3	ND	ND	ND	0.0083	0.0128	0.0178	0.0238	0.0225	0.0253	0.0206	0.0230	ND	
CN (mg/L)	1.0	ND	ND	ND	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	ND	
Pb (mg/L)	0.2	ND	ND	ND	0.0005	0.0008	0.0005	0.0008	0.0005	0.0005	0.0005	0.0005	ND	
Ni (mg/L)	0.5	ND	ND	ND	0.1135	0.1638	0.2753	0.3076	0.2713	0.2900	0.2704	0.2948	ND	
Zn (mg/L)	0.5	ND	ND	ND	0.0275	0.1565	0.0815	0.0984	0.0883	0.0878	0.0762	0.0768	ND	
TSS (mg/L)	15	ND	ND	ND	2.50	4.75	10.50	16.60	12.75	15.00	7.40	6.75	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	NMR	0.0010	NMR	NMR	0.0020	NMR	NMR	0.0020	ND	
pH low	≥ 6.0	ND	ND	ND	6.3	6.6	6.3	6.7	6.6	6.6	6.7	6.8	ND	
pH high	≤ 9.5	ND	ND	ND	6.6	6.7	6.9	6.7	6.8	6.7	7.0	6.9	ND	
Flow (m3/month)	—	ND	ND	ND	30,851	58,514	31,091	8,874	17,720	41,996	17,948	28,165	ND	
Rainbow Trout	Pass	ND	ND	ND	1	1	1	1	1	1	1	1	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	1	1	1	1	1	1	1	1	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Tio (Mine)													
Operator Name	QIT-Fer et Titane Inc.													
Product(s)	Iron-Titanium													
Address	951 De l'Escale Boulevard, Havre-Saint-Pierre, Quebec G0G 1P0													
Effluent Discharge Point	Grondin Effluent													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Tio (Mine)													
Operator Name	QIT-Fer et Titane Inc.													
Product(s)	Iron-Titanium													
Address	951 De l'Escaie Boulevard, Havre-Saint-Pierre, Quebec G0G 1P0													
Effluent Discharge Point	Resurgence Leo													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0011	0.0041	0.0005	0.0005	0.0005	0.0005	
Cu (mg/L)	0.3	0.0208	0.0313	0.0268	0.0156	0.0095	0.0075	0.0100	0.0080	0.0063	0.0072	0.0078	0.0132	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0005	0.0005	0.0005	0.0005	0.0005	0.0013	0.0006	0.0005	0.0005	0.0006	0.0005	0.0005	
Ni (mg/L)	0.5	0.4784	0.4218	0.4465	0.3774	0.4463	0.4183	0.4130	0.4165	0.4435	0.4384	0.4833	0.4806	
Zn (mg/L)	0.5	0.0476	0.0410	0.0583	0.0514	0.0753	0.0533	0.0430	0.0560	0.0573	0.0544	0.0560	0.0574	
TSS (mg/L)	15	0.70	0.50	0.88	0.50	1.75	0.63	2.30	1.25	0.75	0.50	0.63	0.70	
Ra-226 (Bq/L)	0.37	NMR	0.0010	NMR	NMR	0.0010	NMR	NMR	0.0010	NMR	NMR	0.0010	NMR	
pH low	≥ 6.0	6.9	7.0	6.7	6.7	7.0	6.9	6.7	6.9	6.9	6.9	7.0	7.0	
pH high	≤ 9.5	7.0	7.1	7.1	7.1	7.0	7.0	7.1	7.2	7.1	7.0	7.1	7.1	
Flow (m3/month)	—	7,767	9,393	80,397	125,937	332,735	278,568	90,234	100,637	124,587	162,222	123,689	39,870	
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Tio (Mine)													
Operator Name	QIT-Fer et Titane Inc.													
Product(s)	Iron-Titanium													
Address	951 De l'Escale Boulevard, Havre-Saint-Pierre, Quebec G0G 1P0													
Effluent Discharge Point	Switch South													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0006	0.0036	0.0005	0.0005	0.0005	0.0005	
Cu (mg/L)	0.3	0.0698	0.0268	0.0373	0.0540	0.0445	0.0523	0.0242	0.0338	0.0778	0.0492	0.0363	0.0248	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0006	0.0005	0.0005	0.0005	0.0009	0.0005	
Ni (mg/L)	0.5	0.1580	0.1200	0.1118	0.1356	0.2008	0.3110	0.1922	0.2415	0.2505	0.2334	0.2193	0.1630	
Zn (mg/L)	0.5	0.0183	0.0140	0.0218	0.0278	0.0508	0.0633	0.0296	0.0385	0.0500	0.0464	0.0460	0.0452	
TSS (mg/L)	15	2.25	3.50	5.50	5.40	7.75	5.25	2.40	2.75	4.75	8.60	5.50	4.60	
Ra-226 (Bq/L)	0.37	NMR	0.0010	NMR	NMR	0.0010	NMR	NMR	0.0010	NMR	NMR	0.0010	NMR	
pH low	≥ 6.0	6.9	7.1	7.0	6.9	6.6	7.1	7.0	7.1	6.8	6.9	7.0	7.0	
pH high	≤ 9.5	7.3	7.2	7.1	7.1	7.1	7.1	7.3	7.3	7.1	7.1	7.2	7.1	
Flow (m3/month)	—	246	202	10,286	15,696	19,121	6,759	246	68,268	7,427	12,033	19,049	2,174	
Rainbow Trout	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	1	1	1	1	1	1	1	1	1	1	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Totten Mine													
Operator Name	Vale Canada Ltd.													
Product(s)	Nickel-Copper and Precious Metals													
Address	6 C. Johnson Road, Worthington, Ontario P0M3H0													
Effluent Discharge Point	Totten Discharge													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0022	0.0010	0.0010	0.0010	0.0010	0.0010	
Cu (mg/L)	0.3	0.0018	0.0053	0.0083	0.0050	0.0044	0.0048	0.0022	0.0025	0.0034	0.0028	0.0058	0.0050	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0344	0.0403	0.0310	0.0310	0.0310	0.0310	0.0310	0.0310	0.0253	0.0080	0.0080	0.0080	
Ni (mg/L)	0.5	0.0280	0.0263	0.0173	0.0090	0.0090	0.0090	0.0090	0.0125	0.0079	0.0112	0.0153	0.0216	
Zn (mg/L)	0.5	0.0068	0.0088	0.0050	0.0050	0.0050	0.0050	0.0050	0.0050	0.0044	0.0025	0.0025	0.0025	
TSS (mg/L)	15	2.06	3.20	2.20	4.60	3.32	2.65	1.80	2.10	2.30	2.96	5.25	3.40	
Ra-226 (Bq/L)	0.37	0.0250	NMR	NMR	0.0025	NMR	NMR	0.0090	NMR	NMR	0.0150	NMR	NMR	
pH low	≥ 6.0	7.0	7.0	6.5	7.1	7.5	8.4	7.8	7.3	7.3	7.5	7.4	7.0	
pH high	≤ 9.5	7.3	7.3	8.0	7.3	8.2	8.7	8.2	7.9	8.0	7.9	7.7	7.4	
Flow (m3/month)	—	66,930	67,116	120,900	112,848	168,268	60,420	26,784	38,595	89,640	50,809	26,250	52,173	
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Trout Lake Mine												
Operator Name	Hudson Bay Mining and Smelting Co. Ltd. - Hudbay Minerals Inc.												
Product(s)	Copper-Zinc-Gold-Silver												
Address	P.O. Box 1500, Flin Flon, Manitoba R8A 1N9												
Effluent Discharge Point	Trout Lake Surface Sump Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	ND	ND	ND	0.0035	0.0040	0.0045	0.0060	ND	ND	ND
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	0.0145	0.0132	0.0158	0.0190	ND	ND	ND
CN (mg/L)	1.0	ND	ND	ND	ND	ND	NMR	NMR	NMR	NMR	ND	ND	ND
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	0.0100	0.0100	0.0100	0.0100	ND	ND	ND
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	0.0053	0.0072	0.0090	0.0080	ND	ND	ND
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	0.0965	0.0996	0.1350	0.1320	ND	ND	ND
TSS (mg/L)	15	ND	ND	ND	ND	ND	5.65	3.00	2.31	1.70	ND	ND	ND
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	0.2000	0.1380	0.1725	0.2000	ND	ND	ND
pH low	≥ 6.0	ND	ND	ND	ND	ND	7.8	7.0	7.3	7.1	ND	ND	ND
pH high	≤ 9.5	ND	ND	ND	ND	ND	7.9	8.0	7.7	7.1	ND	ND	ND
Flow (m3/month)	—	ND	ND	ND	ND	ND	12,100	27,800	29,700	4,700	ND	ND	ND
Rainbow Trout	Pass	ND	ND	ND	ND	ND	1	NMR	1	NMR	ND	ND	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	1	NMR	1	NMR	ND	ND	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	As of 2012, the company name changed from Hudson Bay Mining and Smelting Co. Ltd. to Hudbay Minerals Inc.												
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Vezza (Mine)												
Operator Name		North American Palladium Ltd. / Maudore Minerals Ltd. - Mines Aurbec Inc.												
Product(s)		Gold												
Address		Km 197, Road 109 North, Matagami, Quebec J0Y 2A0												
Effluent Discharge Point		Polishing Pond												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0132	0.0187	0.0080	0.0054	0.0056	0.0046	0.0043	0.0030	0.0097	0.0007	0.0016	ND	
Cu (mg/L)	0.3	0.0098	0.0035	0.0024	0.0018	0.0012	0.0125	0.0138	0.0024	0.0046	0.0045	0.0051	ND	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	0.0025	ND	
Pb (mg/L)	0.2	0.0035	0.0032	0.0002	0.0002	0.0168	0.0015	0.0028	0.0004	0.0009	0.0007	0.0008	ND	
Ni (mg/L)	0.5	0.0303	0.0329	0.0320	0.0276	0.0260	0.0260	0.0384	0.0316	0.0273	0.0085	0.0067	ND	
Zn (mg/L)	0.5	0.0330	0.0370	0.0495	0.1216	0.0563	0.0473	0.0392	0.0843	0.0599	0.2270	0.2323	ND	
TSS (mg/L)	15	37.80	36.33	15.75	16.54	9.08	3.63	3.54	4.17	4.46	3.30	4.50	ND	
Ra-226 (Bq/L)	0.37	0.0100	NMR	NMR	0.0080	NMR	NMR	NMR	NMR	0.0120	NMR	0.0010	ND	
pH low	≥ 6.0	7.2	6.9	7.0	7.2	7.3	7.8	7.1	7.1	7.0	7.6	7.6	ND	
pH high	≤ 9.5	8.0	8.0	7.5	7.5	7.9	8.1	8.2	8.1	8.1	8.2	8.1	ND	
Flow (m3/month)	—	625	700	6,117	11,437	10,946	8,017	8,180	7,084	26,600	1,412	2,036	ND	
Rainbow Trout	Pass	2	-	2	4	2	-	3	4	5	1	1	ND	
Acute Lethality Test	Fail	2	4	2	1	2	4	2	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	3	3	3	3	4	1	4	4	5	1	1	ND	
Monitoring Test	Fail	1	1	-	2	-	3	1	-	-	-	-	-	
Comments:		As of March 22, 2013 , the ownership of Vezza Mine was transferred from North American Palladium Ltd. to Maudore Minerals Ltd. - Mines Aurbec Inc.												
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Voisey's Bay Mine – Mill													
Operator Name	Vale Canada Ltd. - Vale Newfoundland & Labrador Ltd.													
Product(s)	Nickel-Copper-Cobalt													
Address	10 Fort William Place, St. John's, Newfoundland and Labrador A1C 1K4													
Effluent Discharge Point	Port Site Sedimentation Pond													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	0.0005	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	0.0040	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	NMR	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	0.0003	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	0.1500	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	0.0025	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	1.20	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	0.0050	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	7.0	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	7.0	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	3,000	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Voisey's Bay Mine – Mill													
Operator Name	Vale Canada Ltd. - Vale Newfoundland & Labrador Ltd.													
Product(s)	Nickel-Copper-Cobalt													
Address	10 Fort William Place, St. John's, Newfoundland and Labrador A1C 1K4													
Effluent Discharge Point	Sedimentation Pond A Discharge													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Voisey's Bay Mine – Mill												
Operator Name		Vale Canada Ltd. - Vale Newfoundland & Labrador Ltd.												
Product(s)		Nickel-Copper-Cobalt												
Address		10 Fort William Place, St. John's, Newfoundland and Labrador A1C 1K4												
Effluent Discharge Point		Sedimentation Pond B												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Voisey's Bay Mine – Mill													
Operator Name	Vale Canada Ltd. - Vale Newfoundland & Labrador Ltd.													
Product(s)	Nickel-Copper-Cobalt													
Address	10 Fort William Place, St. John's, Newfoundland and Labrador A1C 1K4													
Effluent Discharge Point	South of Ovoid Final Discharge Point													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Voisey's Bay Mine – Mill												
Operator Name		Vale Canada Ltd. - Vale Newfoundland & Labrador Ltd.												
Product(s)		Nickel-Copper-Cobalt												
Address		10 Fort William Place, St. John's, Newfoundland and Labrador A1C 1K4												
Effluent Discharge Point		South Sedimentation Pond												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Voisey's Bay Mine – Mill												
Operator Name		Vale Canada Ltd. - Vale Newfoundland & Labrador Ltd.												
Product(s)		Nickel-Copper-Cobalt												
Address		10 Fort William Place, St. John's, Newfoundland and Labrador A1C 1K4												
Effluent Discharge Point		Treated Effluent Final Discharge Point												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	
Cu (mg/L)	0.3	0.0010	0.0015	0.0022	0.0013	0.0014	0.0040	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0003	0.0003	0.0003	0.0003	0.0003	0.0004	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	
Ni (mg/L)	0.5	0.0197	0.0161	0.0248	0.0216	0.0354	0.0340	0.0165	0.0417	0.0901	0.0470	0.0479	0.0531	
Zn (mg/L)	0.5	0.0028	0.0046	0.0044	0.0025	0.0048	0.0148	0.0046	0.0043	0.0025	0.0025	0.0025	0.0025	
TSS (mg/L)	15	3.11	4.75	4.01	4.86	6.88	4.57	4.89	3.70	4.09	1.00	1.18	1.34	
Ra-226 (Bq/L)	0.37	0.0095	0.0163	0.0050	0.0050	0.0050	0.0050	0.0062	0.0079	0.0050	0.0050	0.0050	0.0050	
pH low	≥ 6.0	8.8	8.5	7.0	7.1	8.7	8.7	8.9	8.8	8.5	8.6	8.5	8.6	
pH high	≤ 9.5	9.1	8.8	9.4	9.0	8.8	8.9	9.0	8.9	8.8	8.6	8.6	8.8	
Flow (m3/month)	—	480,721	437,962	421,133	467,706	513,106	441,034	424,369	434,879	149,236	1,334	380,544	360,943	
Rainbow Trout	Pass	1	1	1	3	1	1	1	1	1	1	1	1	
Acute Lethality Test	Fail	-	-	1	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	-	1	2	-	1	-	1	1	-	1	1	
Monitoring Test	Fail	-	1	-	1	1	-	1	-	-	-	-	-	
Comments:	No <i>Daphnia magna</i> monitoring results were provided for the month of October.													
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Wabush Mines Joint Venture – Scully Mine													
Operator Name	Wabush Mines Joint Venture													
Product(s)	Iron													
Address	Scully Mine, P.O. Box 3000, Wabush, Newfoundland and Labrador A0R 1B0													
Effluent Discharge Point	East Pit Dewatering East													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Wabush Mines Joint Venture – Scully Mine													
Operator Name	Wabush Mines Joint Venture													
Product(s)	Iron													
Address	Scully Mine, P.O. Box 3000, Wabush, Newfoundland and Labrador A0R 1B0													
Effluent Discharge Point	East Pit 1 Dewatering													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Wabush Mines Joint Venture – Scully Mine													
Operator Name	Wabush Mines Joint Venture													
Product(s)	Iron													
Address	Scully Mine, P.O. Box 3000, Wabush, Newfoundland and Labrador A0R 1B0													
Effluent Discharge Point	East Pit 2 Dewatering													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	
Cu (mg/L)	0.3	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0008	0.0010	0.0010	0.0010	0.0010	0.0010	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0003	0.0003	0.0003	0.0007	0.0003	0.0003	0.0017	0.0003	0.0003	0.0007	0.0003	0.0003	
Ni (mg/L)	0.5	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0011	0.0010	
Zn (mg/L)	0.5	0.0033	0.0032	0.0035	0.0025	0.0025	0.0025	0.0030	0.0025	0.0025	0.0025	0.0025	0.0025	
TSS (mg/L)	15	0.68	0.95	0.63	2.12	4.40	1.65	3.68	5.55	2.80	2.70	3.15	3.56	
Ra-226 (Bq/L)	0.37	0.0050	NMR	NMR	0.0200	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR	
pH low	≥ 6.0	7.7	7.8	7.7	7.6	7.6	7.7	7.7	7.6	7.8	7.2	7.4	7.3	
pH high	≤ 9.5	7.9	7.9	7.9	7.9	7.7	7.8	7.8	7.9	7.9	7.8	7.7	7.6	
Flow (m3/month)	—	682,066	614,318	619,455	772,813	812,344	841,589	1,023,277	1,375,051	1,259,459	1,141,688	1,349,072	716,582	
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Wabush Mines Joint Venture – Scully Mine												
Operator Name		Wabush Mines Joint Venture												
Product(s)		Iron												
Address		Scully Mine, P.O. Box 3000, Wabush, Newfoundland and Labrador A0R 1B0												
Effluent Discharge Point		Flora Lake Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0005	0.0005	0.0005	0.0005	0.0009	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	
Cu (mg/L)	0.3	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0016	0.0003	0.0021	
Ni (mg/L)	0.5	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0015	0.0010	
Zn (mg/L)	0.5	0.0025	0.0025	0.0025	0.0025	0.0025	0.0049	0.0025	0.0025	0.0025	0.0033	0.0025	0.0025	
TSS (mg/L)	15	3.20	1.70	3.73	1.62	23.25	24.00	3.60	2.25	1.90	3.00	2.20	1.50	
Ra-226 (Bq/L)	0.37	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR	
pH low	≥ 6.0	7.7	7.7	7.6	7.5	7.4	7.5	7.5	7.6	7.7	7.5	7.5	7.5	
pH high	≤ 9.5	7.8	7.8	7.7	7.8	7.5	7.6	7.7	7.8	7.8	7.7	7.7	7.6	
Flow (m3/month)	—	6,639,444	7,618,722	4,873,593	6,769,486	11,592,189	6,332,985	4,912,376	5,017,064	11,258,795	6,410,404	3,565,790	3,359,049	
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Wabush Mines Joint Venture – Scully Mine													
Operator Name	Wabush Mines Joint Venture													
Product(s)	Iron													
Address	Scully Mine, P.O. Box 3000, Wabush, Newfoundland and Labrador A0R 1B0													
Effluent Discharge Point	Knoll Lake Inflow													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	
Cu (mg/L)	0.3	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	
Ni (mg/L)	0.5	0.0010	0.0010	0.0014	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0017	0.0016	
Zn (mg/L)	0.5	0.0088	0.0071	0.0041	0.0052	0.0046	0.0211	0.0061	0.0046	0.0082	0.0108	0.0055	0.0056	
TSS (mg/L)	15	2.90	1.60	2.30	2.80	2.75	7.10	1.88	2.40	1.85	2.76	1.78	13.92	
Ra-226 (Bq/L)	0.37	0.0100	NMR	NMR	0.0200	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR	
pH low	≥ 6.0	7.3	7.7	7.6	7.2	7.4	7.4	7.3	7.4	7.2	7.3	7.0	7.1	
pH high	≤ 9.5	7.7	7.9	7.9	7.8	8.5	7.6	7.7	7.7	7.6	7.6	7.3	7.8	
Flow (m3/month)	—	460,400	517,678	381,822	346,887	642,739	383,449	297,211	538,477	350,704	244,060	313,508	538,390	
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	-	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Monitoring Test	Fail	1	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Wabush Mines Joint Venture – Scully Mine													
Operator Name	Wabush Mines Joint Venture													
Product(s)	Iron													
Address	Scully Mine, P.O. Box 3000, Wabush, Newfoundland and Labrador A0R 1B0													
Effluent Discharge Point	Loadout Ditch Discharge													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Wabush Mines Joint Venture – Scully Mine													
Operator Name	Wabush Mines Joint Venture													
Product(s)	Iron													
Address	Scully Mine, P.O. Box 3000, Wabush, Newfoundland and Labrador A0R 1B0													
Effluent Discharge Point	Shops East Discharge													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Wabush Mines Joint Venture – Scully Mine													
Operator Name	Wabush Mines Joint Venture													
Product(s)	Iron													
Address	Scully Mine, P.O. Box 3000, Wabush, Newfoundland and Labrador A0R 1B0													
Effluent Discharge Point	Shops South Discharge													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Wabush Mines Joint Venture – Scully Mine													
Operator Name	Wabush Mines Joint Venture													
Product(s)	Iron													
Address	Scully Mine, P.O. Box 3000, Wabush, Newfoundland and Labrador A0R 1B0													
Effluent Discharge Point	Tailings Discharge													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Wabush Mines Joint Venture – Scully Mine												
Operator Name		Wabush Mines Joint Venture												
Product(s)		Iron												
Address		Scully Mine, P.O. Box 3000, Wabush, Newfoundland and Labrador A0R 1B0												
Effluent Discharge Point		Tailings Line Emergency Dump Basin 1												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0005	0.0005	0.0007	0.0005	0.0007	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	
Cu (mg/L)	0.3	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0016	0.0010	0.0010	0.0010	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0018	0.0003	0.0025	
Ni (mg/L)	0.5	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	
Zn (mg/L)	0.5	0.0075	0.0068	0.0032	0.0046	0.0082	0.0025	0.0025	0.0025	0.0025	0.0048	0.0025	0.0052	
TSS (mg/L)	15	26.33	17.00	19.55	13.85	28.25	13.35	14.40	27.50	15.60	12.33	8.30	5.30	
Ra-226 (Bq/L)	0.37	0.0100	0.0050	0.0050	0.0075	0.0138	0.0075	0.0072	0.0050	0.0050	0.0087	0.0050	0.0050	
pH low	≥ 6.0	7.4	7.4	7.4	7.1	7.1	7.3	7.5	7.4	7.5	7.4	7.4	7.1	
pH high	≤ 9.5	7.5	7.4	7.9	7.5	7.4	7.4	7.6	7.7	7.6	7.6	7.4	7.2	
Flow (m3/month)	—	29,294	854	401	20,329	3,785	-	79	46,827	97,257	96,591	107,496	77,466	
Rainbow Trout	Pass	1	-	1	1	1	1	1	1	-	1	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	-	1	1	1	1	1	1	-	1	1	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	No toxicity test results were provided for February and September. No flow data was provided for June.													
Notes: ND: No Deposit		NMR: No Measurement Required				Pass: ≤50% Mortality				Fail: >50% Mortality				
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Wabush Mines Joint Venture – Scully Mine													
Operator Name	Wabush Mines Joint Venture													
Product(s)	Iron													
Address	Scully Mine, P.O. Box 3000, Wabush, Newfoundland and Labrador A0R 1B0													
Effluent Discharge Point	West Pit Extension Settling Basin													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	
Cu (mg/L)	0.3	0.0010	0.0010	0.0010	0.0019	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0007	
Ni (mg/L)	0.5	0.0010	0.0010	0.0013	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0013	0.0010	
Zn (mg/L)	0.5	0.0034	0.0033	0.0037	0.0025	0.0025	0.0032	0.0029	0.0025	0.0025	0.0033	0.0025	0.0025	
TSS (mg/L)	15	0.80	0.50	0.50	0.68	1.10	1.20	1.28	1.15	1.10	0.84	0.50	0.50	
Ra-226 (Bq/L)	0.37	0.0200	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR	0.0050	NMR	NMR	
pH low	≥ 6.0	7.3	7.3	7.3	7.1	7.2	7.2	7.1	7.2	7.2	7.0	7.0	6.8	
pH high	≤ 9.5	7.6	7.5	7.5	7.6	7.3	7.3	7.4	7.8	7.3	7.4	7.5	7.1	
Flow (m3/month)	—	2,030,344	1,495,773	1,260,816	2,265,335	2,171,537	2,147,485	4,229,598	3,343,267	3,694,026	3,580,305	2,367,184	2,616,993	
Rainbow Trout	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	NMR	NMR	1	NMR	NMR	1	NMR	NMR	-	NMR	NMR	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	1	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Williams Mine													
Operator Name	Barrick Gold Corporation - Williams Operating Corporation													
Product(s)	Gold													
Address	P.O. Bag 500, Marathon, Ontario P0T 2E0													
Effluent Discharge Point	Polishing Pond Discharge CP 400													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Williams Mine													
Operator Name	Barrick Gold Corporation - Williams Operating Corporation													
Product(s)	Gold													
Address	P.O. Bag 500, Marathon, Ontario P0T 2E0													
Effluent Discharge Point	Stormwater Pond CP 102													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	0.0057	0.0037	0.0052	0.0035	0.0061	0.0081	0.0091	0.0057	0.0125	
Cu (mg/L)	0.3	ND	ND	ND	0.0005	0.0016	0.0013	0.0012	0.0009	0.0042	0.0015	0.0019	0.0024	
CN (mg/L)	1.0	ND	ND	ND	0.0032	0.0020	0.0023	0.0014	0.0098	0.0063	0.0148	0.0055	0.0040	
Pb (mg/L)	0.2	ND	ND	ND	0.0005	0.0005	0.0005	0.0005	0.0006	0.0007	0.0001	0.0004	0.0005	
Ni (mg/L)	0.5	ND	ND	ND	0.0069	0.0029	0.0038	0.0032	0.0044	0.0036	0.0045	0.0052	0.0040	
Zn (mg/L)	0.5	ND	ND	ND	0.0094	0.0029	0.0015	0.0018	0.0015	0.0093	0.0033	0.0047	0.0098	
TSS (mg/L)	15	ND	ND	ND	4.78	5.70	2.53	4.40	3.25	3.53	2.62	5.00	3.00	
Ra-226 (Bq/L)	0.37	ND	ND	ND	0.0064	0.0078	0.0123	0.0086	0.0063	0.0065	0.0050	0.0063	0.0050	
pH low	≥ 6.0	ND	ND	ND	7.4	7.4	7.8	7.7	7.8	7.8	7.8	7.6	7.5	
pH high	≤ 9.5	ND	ND	ND	7.7	7.9	8.0	8.1	8.0	8.0	8.0	7.9	7.6	
Flow (m3/month)	—	ND	ND	ND	54,149	79,236	58,956	101,432	126,807	132,200	93,523	43,193	2,681	
Rainbow Trout	Pass	ND	ND	ND	1	1	1	1	1	1	1	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	1	1	1	1	1	1	1	1	1	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Williams Mine													
Operator Name	Barrick Gold Corporation - Williams Operating Corporation													
Product(s)	Gold													
Address	P.O. Bag 500, Marathon, Ontario P0T 2E0													
Effluent Discharge Point	Stormwater Pond CP 0300													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	0.0005	0.0006	ND	ND	ND	ND	0.0008	0.0005	ND	
Cu (mg/L)	0.3	ND	ND	ND	0.0008	0.0017	ND	ND	ND	ND	0.0011	0.0017	ND	
CN (mg/L)	1.0	ND	ND	ND	0.0013	0.0012	ND	ND	ND	ND	0.0010	0.0020	ND	
Pb (mg/L)	0.2	ND	ND	ND	0.0007	0.0005	ND	ND	ND	ND	0.0000	0.0005	ND	
Ni (mg/L)	0.5	ND	ND	ND	0.0017	0.0020	ND	ND	ND	ND	0.0009	0.0010	ND	
Zn (mg/L)	0.5	ND	ND	ND	0.0015	0.0060	ND	ND	ND	ND	0.0010	0.0025	ND	
TSS (mg/L)	15	ND	ND	ND	2.30	2.06	ND	ND	ND	ND	1.50	1.50	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	0.0117	0.0050	ND	ND	ND	ND	0.0050	0.0050	ND	
pH low	≥ 6.0	ND	ND	ND	7.4	7.3	ND	ND	ND	ND	7.6	7.5	ND	
pH high	≤ 9.5	ND	ND	ND	7.6	7.9	ND	ND	ND	ND	7.9	7.7	ND	
Flow (m3/month)	—	ND	ND	ND	30,358	79,236	ND	ND	ND	ND	39,060	19,412	ND	
Rainbow Trout	Pass	ND	ND	ND	1	1	ND	ND	ND	ND	1	1	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	1	1	ND	ND	ND	ND	1	1	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Williams Mine												
Operator Name	Barrick Gold Corporation - Williams Operating Corporation												
Product(s)	Gold												
Address	P.O. Bag 500, Marathon, Ontario P0T 2E0												
Effluent Discharge Point	Stormwater Pond CP 400A												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	0.0050	0.0050	0.0050	0.0050	0.0065	ND	ND	0.0134	ND	0.0141	ND	0.0050
Cu (mg/L)	0.3	0.0023	0.0037	0.0025	0.0022	0.0048	ND	ND	0.0026	ND	0.0027	ND	0.0040
CN (mg/L)	1.0	0.0125	0.0068	0.0070	0.0039	0.0270	ND	ND	0.0290	ND	0.0400	ND	0.0070
Pb (mg/L)	0.2	0.0005	0.0005	0.0005	0.0005	0.0005	ND	ND	0.0005	ND	0.0005	ND	0.0005
Ni (mg/L)	0.5	0.0094	0.0113	0.0081	0.0086	0.0056	ND	ND	0.0062	ND	0.0075	ND	0.0078
Zn (mg/L)	0.5	0.0235	0.0290	0.0153	0.0141	0.0198	ND	ND	0.0075	ND	0.0112	ND	0.0285
TSS (mg/L)	15	5.60	7.30	23.20	16.43	39.10	ND	ND	12.00	ND	11.00	ND	3.00
Ra-226 (Bq/L)	0.37	0.0050	0.0080	0.0050	0.0050	0.0135	ND	ND	0.0050	ND	0.0025	ND	0.0120
pH low	≥ 6.0	7.7	7.6	7.5	7.7	7.6	ND	ND	7.7	ND	7.8	ND	7.8
pH high	≤ 9.5	7.7	7.6	7.8	7.8	7.7	ND	ND	7.7	ND	7.8	ND	7.8
Flow (m3/month)	—	26,988	226,601	239,397	679,086	27,643	ND	ND	4,695	ND	4,284	ND	7,978
Rainbow Trout	Pass	1	1	1	1	1	ND	ND	1	ND	1	ND	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	1	1	1	1	1	ND	ND	1	ND	1	ND	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Williams Mine													
Operator Name	Barrick Gold Corporation - Williams Operating Corporation													
Product(s)	Gold													
Address	P.O. Bag 500, Marathon, Ontario P0T 2E0													
Effluent Discharge Point	Treated Effluent CP 0201													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0025	0.0025	0.0024	0.0021	0.0020	0.0021	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	0.0027	0.0028	0.0041	0.0062	0.0304	0.0803	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	0.0064	0.0050	0.0062	0.0165	0.0633	0.1070	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	0.0005	0.0005	0.0005	0.0000	0.0003	0.0005	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0564	0.0523	0.0539	0.0666	0.0758	0.0800	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	0.0015	0.0015	0.0013	0.0008	0.0013	0.0015	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	2.38	1.65	1.60	1.50	1.33	4.00	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	0.0042	0.0050	0.0050	0.0050	0.0044	0.0050	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	7.1	7.4	7.3	7.2	7.2	7.2	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	7.6	7.6	7.6	7.4	7.2	7.3	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	318,613	352,485	413,550	439,960	296,624	97,084	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	1	1	1	1	1	1	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	1	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	1	1	1	1	1	2	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Wolverine Project													
Operator Name	Yukon Zinc Corporation													
Product(s)	Zinc-Copper-Lead-Silver-Gold													
Address	190 km NW of Watson Lake, Yukon													
Effluent Discharge Point	Wo.TSF – Tailings Storage Facility													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:														
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A “Pass” for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name		Xstrata Nickel Sudbury Smelter - Sudbury Integrated Nickel Operations - Smelter												
Operator Name		Xstrata Canada Corporation / Glencore Canada Corporation												
Product(s)		Nickel-Copper-Cobalt-Platinum-Palladium												
Address		1 Longyear Drive, Falconbridge, Ontario P0M 1S0												
Effluent Discharge Point		Final Effluent at NIR Road												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	0.0031	0.0024	0.0021	0.0028	0.0028	0.0032	0.0072	0.0039	0.0024	0.0028	0.0028	0.0016	
Cu (mg/L)	0.3	0.0039	0.0038	0.0048	0.0092	0.0036	0.0030	0.0020	0.0020	0.0010	0.0019	0.0016	0.0014	
CN (mg/L)	1.0	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	NMR	
Pb (mg/L)	0.2	0.0002	0.0002	0.0002	0.0003	0.0001	0.0002	0.0004	0.0001	0.0001	0.0001	0.0001	0.0001	
Ni (mg/L)	0.5	0.0555	0.0443	0.0618	0.0743	0.0556	0.0491	0.0363	0.0213	0.0294	0.0305	0.0810	0.0711	
Zn (mg/L)	0.5	0.0039	0.0036	0.0039	0.0052	0.0017	0.0016	0.0026	0.0018	0.0011	0.0028	0.0026	0.0017	
TSS (mg/L)	15	1.05	0.53	0.68	1.45	0.88	0.91	3.67	0.99	0.65	0.60	0.45	0.41	
Ra-226 (Bq/L)	0.37	0.0200	NMR	NMR	0.0050	NMR	NMR	0.0160	NMR	0.0050	0.0050	NMR	NMR	
pH low	≥ 6.0	6.8	6.8	6.8	6.8	6.9	6.8	6.7	6.6	6.7	6.4	6.7	6.7	
pH high	≤ 9.5	6.9	6.9	7.0	7.0	7.1	7.0	6.9	6.9	6.9	7.0	7.0	7.2	
Flow (m3/month)	—	477,856	534,910	1,008,515	1,539,235	1,073,276	807,452	550,161	624,980	515,535	560,315	886,636	506,373	
Rainbow Trout	Pass	1	-	-	1	-	-	1	-	-	1	-	-	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	1	-	-	1	-	-	1	-	-	1	-	-	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	As of July 30, 2013, the ownership of this facility was transferred from Xstrata Canada Corporation to Glencore Canada Corporation. and the facility name was changed to Sudbury Integrated Nickel Operations - Smelter. No toxicity test results were provided for February, March, May, June, August, September, November and December. In order to reduce frequency of testing for acute lethality, 12 consecutive monthly tests must be conducted successfully.													
Notes:	ND: No Deposit			NMR: No Measurement Required			Pass: ≤50% Mortality			Fail: >50% Mortality				
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Yellowjacket Gold Mine													
Operator Name	Yellowjacket Resources Ltd. - Athabasca Nuclear Corporation													
Product(s)	Gold													
Address	44-12th Avenue S, Suite 200, Cranbrook, British Columbia V1C 2R7													
Effluent Discharge Point	Ye.TSF – Tailings Storage Facility													
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
As (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Cu (mg/L)	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CN (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Pb (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ni (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Zn (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
TSS (mg/L)	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ra-226 (Bq/L)	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH low	≥ 6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
pH high	≤ 9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Flow (m3/month)	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Rainbow Trout	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Daphnia magna</i>	Pass	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-	
Comments:	As of May 29, 2013, the company name changed from Yellowjacket Resources Limited to Athabasca Nuclear Corporation.													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality														
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.														
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.														

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Young-Davidson Mine												
Operator Name	AuRico Gold Inc.												
Product(s)	Gold												
Address	P.O. Box 187, Matachewan, Ontario P0K 1M0												
Effluent Discharge Point	Mine Water Pond Final Discharge												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	ND	ND	0.0022	0.0030	0.0025	0.0041	0.0027	0.0026	ND	0.0024	0.0031	0.0013
Cu (mg/L)	0.3	ND	ND	0.0096	0.0114	0.0104	0.0171	0.0134	0.0091	ND	0.0076	0.0162	0.0047
CN (mg/L)	1.0	ND	ND	0.0467	0.0721	0.0360	0.0282	0.0241	0.0261	ND	0.0135	0.1115	0.0278
Pb (mg/L)	0.2	ND	ND	0.0005	0.0008	0.0015	0.0010	0.0005	0.0005	ND	0.0009	0.0007	0.0005
Ni (mg/L)	0.5	ND	ND	0.0069	0.0097	0.0071	0.0068	0.0057	0.0052	ND	0.0093	0.0139	0.0079
Zn (mg/L)	0.5	ND	ND	0.0118	0.0075	0.0079	0.0095	0.0064	0.0046	ND	0.0159	0.0071	0.0108
TSS (mg/L)	15	ND	ND	2.00	10.54	9.55	5.80	1.04	3.65	ND	1.57	2.28	0.83
Ra-226 (Bq/L)	0.37	ND	ND	0.0090	NMR	0.0120	NMR	NMR	0.0140	ND	NMR	0.0210	NMR
pH low	≥ 6.0	ND	ND	8.0	7.9	8.2	8.0	8.1	8.0	ND	8.0	7.9	7.6
pH high	≤ 9.5	ND	ND	8.6	8.3	8.3	8.2	8.4	8.1	ND	8.1	8.0	8.0
Flow (m3/month)	—	ND	ND	27,641	189,670	154,963	50,930	35,570	35,523	ND	35,718	212,287	46,883
Rainbow Trout	Pass	ND	ND	1	1	1	1	1	1	ND	1	1	1
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	ND	ND	1	1	1	1	1	1	ND	1	1	1
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:													
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

Metal Mining Effluent Regulations (MMER) 2013 Effluent Compliance

Mine/Mill Name	Yukon Refinery												
Operator Name	Yukon (36569) Inc.												
Product(s)	Nickel-Cobalt-Silver-Gold												
Address	Lot 1, Concession 12, Highway 567, Lorraine Township North Cobalt, Ontario P0J 1R0												
Effluent Discharge Point	Secondary Pond												
Parameters	Limits	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
As (mg/L)	0.5	-	-	-	-	0.0980	ND	0.4045	ND	0.2950	ND	0.0673	ND
Cu (mg/L)	0.3	-	-	-	-	0.0037	ND	0.0036	ND	0.0060	ND	0.0101	ND
CN (mg/L)	1.0	-	-	-	-	0.0010	ND	0.0045	ND	0.0017	ND	0.0029	ND
Pb (mg/L)	0.2	-	-	-	-	0.0001	ND	0.0004	ND	0.0003	ND	0.0001	ND
Ni (mg/L)	0.5	-	-	-	-	0.0176	ND	0.0199	ND	0.0405	ND	0.1215	ND
Zn (mg/L)	0.5	-	-	-	-	0.0169	ND	0.0167	ND	0.0150	ND	0.0390	ND
TSS (mg/L)	15	-	-	-	-	0.35	ND	1.00	ND	4.40	ND	0.60	ND
Ra-226 (Bq/L)	0.37	-	-	-	-	0.0025	ND	0.0038	ND	0.0043	ND	0.0074	ND
pH low	≥ 6.0	-	-	-	-	7.4	ND	7.9	ND	7.9	ND	8.2	ND
pH high	≤ 9.5	-	-	-	-	7.4	ND	8.8	ND	9.2	ND	8.5	ND
Flow (m3/month)	—	-	-	-	-	4,957	ND	6,475	ND	7,861	ND	7,516	ND
Rainbow Trout	Pass	-	-	-	-	1	ND	1	ND	1	ND	1	ND
Acute Lethality Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
<i>Daphnia magna</i>	Pass	-	-	-	-	1	ND	1	ND	1	ND	1	ND
Monitoring Test	Fail	-	-	-	-	-	-	-	-	-	-	-	-
Comments:	This mine became subject to the MMER in May 2013.												
Notes: ND: No Deposit NMR: No Measurement Required Pass: ≤50% Mortality Fail: >50% Mortality													
Highlighted data indicate that a monthly effluent quality standard was exceeded for that month.													
A "Pass" for the <i>Daphnia magna</i> monitoring test is not a requirement.													

www.ec.gc.ca

Additional information can be obtained at:

Environment Canada

Inquiry Centre

10 Wellington Street, 23rd Floor

Gatineau QC K1A 0H3

Telephone: 1-800-668-6767 (in Canada only) or 819-997-2800

Fax: 819-994-1412

TTY: 819-994-0736

Email: enviroinfo@ec.gc.ca



**Table D2: Performance Summary for Mines Subject to the MMER in 2013: Rainbow (cont'd)
Trout (RT) Acute Lethality and *Daphnia magna* (DM) Monitoring Tests**

Site Identification		Number of Months of Discharge	RT Total	RT Fail	DM Total	DM Fail
Mine/Mill Name	Effluent Discharge Name					
Wabush Mines Joint Venture – Scully Mine	Loadout Ditch Discharge	0				
Wabush Mines Joint Venture – Scully Mine	Shops East Discharge	0				
Wabush Mines Joint Venture – Scully Mine	Shops South Discharge	0				
Wabush Mines Joint Venture – Scully Mine	Tailings Discharge	0				
Wabush Mines Joint Venture – Scully Mine	Tailings Line Emergency Dump Basin 1	12	10		10	
Wabush Mines Joint Venture – Scully Mine	West Pit Extension Settling Basin	12	4		4	1
Williams Mine	Polishing Pond Discharge CP 400	0				
Williams Mine	Stormwater Pond CP 102	9	9		9	
Williams Mine	Stormwater Pond CP 0300	4	4		4	
Williams Mine	Stormwater Pond CP 400A	8	8		8	
Williams Mine	Treated Effluent CP 0201	6	7	1	7	
Wolverine Project	Wo.TSF – Tailings Storage Facility	0				
Xstrata Nickel Sudbury Smelter - Sudbury Integrated Nickel Operations - Smelter	Final Effluent at NIR Road	12	4		4	
Yellowjacket Gold Mine	Ye.TSF – Tailings Storage Facility	0				
Young-Davidson Mine	Mine Water Pond Final Discharge	9	9		9	
Yukon Refinery	Secondary Pond	4				
Summary			1024	33	1030	66