

**Viceroy Minerals Corporation
Decommissioning & Reclamation
Executive Summary, Brewery Creek Mine, November 2003**

Report Erratum, February 2004

Introduction:

The information presented in this document is considered an erratum to Viceroy Minerals Corporation, Decommissioning & Reclamation Plan Executive Summary Brewery Creek Mine, dated November 2003. The following is a listing of the report sections that should be replaced.

Executive Summary Erratum Sections:

- Replace section 5.4.2.3 Heap Cover and Revegetation (page 30) as follows:

5.4.2.3 Heap Cover and Revegetation

The construction of a soil cover followed by revegetation of the detoxified heap is the third component of the overall heap closure process. The design and final construction of a heap cover has evolved significantly during the development of a final reclamation and closure plan. The following chronology highlights the investigation and design of the heap soil cover:

1. A conceptual design of a 1.0 meter compacted silt cover was included in the original IEE for the Brewery Creek Mine. At the time, there was no testwork or engineering completed to justify this conceptual design.
2. A draft DRP was submitted in July 1999 and included a preliminary design of 0.5 meter compacted silt cover overlain by 0.3 meters of growth media. An infiltration rate of 20% was estimated. There was no testwork completed to confirm the estimated infiltration rate. The lack of suitable and available silt material (155,000 m³) to construct the preliminary cover design was a limitation in the DRP.

3. In July 2001, VMC retained BGC Engineering to develop a preliminary soil cover design for the leach pad. This was the first formal modeling exercise completed for the heap cover. BGC selected a similar design proposed in the July 2001 draft DRP as the design basis. The July 2001 design consisted of a 0.5 meter compacted layer overlain by a 0.5 meter loose layer of growth media. VMC used the July 2001 BGC Engineering design as a preliminary design in the September 2001 DRP. BGC recommended that a sampling and testwork program be completed on various materials to develop a final cover system. VMC stated in the September 2001 DRP that it intended to continue investigating alternative heap cover designs prior to final construction.
4. Based on the results of the July 2001 field and laboratory program, BGC prepared an alternative design for the heap cover consisting of 2 cases. Case #1 was 0.5 meter of loosely placed growth media with a design infiltration rate of 16%, and Case #2 was revegetation of the existing LAQM on the heap. The results indicated the revegetated LAQM alone would result in 24% infiltration, which was less than the 30% infiltration design parameter outlined by VMC. BGC gave VMC both alternative designs and left the final design selection to VMC.
5. VMC selected to place all the available growth media (approximately 80,000 m³) on the leach pad as the final cover design. This resulted in a uniform 0.25 m cover thickness of growth media on top of the LAQM material and met VMC's heap cover design infiltration criteria of 30% infiltration. VMC stated in the DRP, Volume IV, Attachment 13 (BGC Engineering, Heap Leach Facility Soil Cover Design Report, July 2002) that this was the final design selected and it would proceed with construction in 2003. A current as-built of the leach pad that shows the final reclaimed heap as of October 2003 is included in Figure 5-2. The objective of the cover is to reduce the infiltration of precipitation runoff into the heap so that the volume of effluent requiring further passive secondary treatment and/or released to the environment is likewise reduced. Secondly the growth media provides an environment for successful revegetation.

Approximately 80,000 m³ of growth media was hauled and placed on the leach pad over the period of June – August 2003. The growth media was uniformly spread over the entire surface of the heap and resulted in an average thickness of 0.25 meters. This represents all of the available growth media stored adjacent to the heap. All other sources of growth media were utilized in other areas of mine reclamation.

Section 5.4.4.2 Long-Term Release, Table 5-2 (page 39)

- Table 5-2 should be replaced as follows to correct the pH, copper and suspended solids values for the Direct Discharge to Laura Creek

Table 5-2 Compliance Standards for Effluent Treatment and Land Application

PARAMETER	LAND APPLICATION	DIRECT RELEASE TO LAURA CREEK
pH	6.0 – 9.5	6.0 – 9.5
WAD CN	0.25	0.25
Total CN	2.0	2.0
Ammonia as N	15.0	5.0
Copper	0.5	0.2
Arsenic	0.5	0.5
Antimony	1.0	1.0
Mercury	0.005	0.005
Zinc	0.5	0.5
Selenium	0.75	0.25
Lead	0.2	0.2
Aluminum	1.0	1.0
Bismuth	0.5	0.5
Cadmium	0.1	0.1
Chromium	0.5	0.5
Iron	1.0	1.0
Manganese	2.0	2.0
Molybdenum	0.5	0.5
Nickel	0.8	0.5
Silver	0.1	0.1
Suspended Solids	-	50

Section 9.1, Table 9-1 Brewery Creek Mine Performance Standards and Objectives (Page57).

- Insert Table 9-1 as attached, as it may not have been inserted in the document.

Appendix F Closure Performance Standards and Objectives

Section 1.2.2.1 Water/Chemical Stability

Revise the effluent quality standards table to the following:

- Change copper standard from 0.5 to 0.2 mg/L
- Add suspended solids standards of 50 mg/L

Section 1.3.2.1 Water/Chemical Stability

Revise the effluent quality standards table to the following:

- Change copper standard from 0.5 to 0.2 mg/L
- Add suspended solids standards of 50 mg/L

Section 1.4.2.1 Water/Chemical Stability

Revise the effluent quality standards table to the following:

- Change copper standard from 0.5 to 0.2 mg/L
- Add suspended solids standards of 50 mg/L

Section 1.5.2 Water/Chemical Stability

Revise the effluent quality standards table to the following:

- Change copper standard from 0.5 to 0.2 mg/L
- Add suspended solids standards of 50 mg/L

Table 9-1 Brewery Creek Mine Performance Standards, Criteria and Objectives

Mine Component	Performance Standards & Objectives				
	Water / Chemical Stability	Physical Stability	Revegetation	Monitoring	Follow Up Program
<i>Open Pits</i>	<ul style="list-style-type: none"> Existing/amended Water License Effluent Standards for direct discharge; Receiving Water Quality Objectives – CCME Freshwater Aquatic Life Guidelines – South Klondike River (new). 	<ul style="list-style-type: none"> Engineering designs for open pits as presented in DRP; Terrestrial Reclamation Standards for terrain stability and erosion control; exceptions noted in Figures 1-10 DRP, Volume IV, Attachment 1. 	<ul style="list-style-type: none"> Terrestrial reclamation standards for revegetation. 	<ul style="list-style-type: none"> Closure Monitor Program for effluent discharge and receiving waters (surface and groundwater water quality, sediment, benthos, flows); Routine physical and revegetation monitoring and geotechnical inspection. 	<ul style="list-style-type: none"> Review of YWB Annual Report. Assessment and maintenance if required.
<p><i>Waste Rock Storage Areas (WRSA)</i></p> <p><i>Blue WRSA</i></p>	<ul style="list-style-type: none"> Existing/amended License Effluent Standards for direct discharge; Receiving Water Quality Objectives – CCME Freshwater Aquatic Life Guidelines – South Klondike River (new). Further Geochemical Assessment and test program underway; Groundwater Quality Objectives – Contaminated Sites Regulations - Aquatic Life (new). 	<ul style="list-style-type: none"> Engineering designs for WRSA; WRSA Slopes 2.5H:1V; exceptions noted in Figures 1-10 DRP, Volume IV, Attachment 1; Terrestrial Reclamation Standards for terrain stability and erosion control. Cover Design – BGC Report (Appendix C). Design infiltration rate criteria at 19%; Lysimeter construction- BGC Report (Appendix D). 	<ul style="list-style-type: none"> Terrestrial reclamation standards for revegetation. 	<ul style="list-style-type: none"> Closure Monitor Program for effluent discharge and receiving waters (surface and groundwater water quality, sediment, benthos, flows); Routine physical and revegetation monitoring and geotechnical inspection. Geochemical Assessment Study; and lysimeter monitor program. 	<ul style="list-style-type: none"> Review of YWB Annual Report. Assessment and maintenance if required. Adaptive Management Plan (AMP) for Blue WRSA based on geochemical assessment, lysimeter monitoring, and closure monitoring program. Exceedances of water/chemical, physical stability criteria trigger development of AMP.
<i>Stream Crossings & Diversion Ditches</i>	<ul style="list-style-type: none"> Existing/amended License Effluent Standards for direct discharge; Receiving Water Quality Objectives – CCME Freshwater Aquatic Life Guidelines – South Klondike River (new). 	<ul style="list-style-type: none"> Engineering design criteria for diversions and stream crossings. DRP, Volume IV, Attachments 1 and 2 – CCL-BCM4; Terrestrial Reclamation Standards for terrain stability and erosion control. 	<ul style="list-style-type: none"> Terrestrial reclamation standards for revegetation. 	<ul style="list-style-type: none"> Routine physical and revegetation monitoring and geotechnical inspection. 	<ul style="list-style-type: none"> YWB Annual Report. Assessment and maintenance if required.
<i>Heap Leach Pad</i>	<ul style="list-style-type: none"> Existing/amended License Effluent Standards for direct discharge; Existing Water License Land Application Standard for discharge to land; Receiving Water Quality Objectives – CCME Freshwater Aquatic Life Guidelines – South Klondike River & lower Laura Creek (new); Heap Solids Standard for Free CN (new). 	<ul style="list-style-type: none"> Engineering designs for heap cover - DRP, Volume IV, Att.13 and containment dyke breach & cell 7 GCL Liner, DRP, Volume IV, Attachment 5 (FS 1.3); Design infiltration rate criteria net 24% average conditions; Terrestrial Reclamation Standards for terrain stability and erosion control. 	<ul style="list-style-type: none"> Terrestrial reclamation standards for revegetation. 	<ul style="list-style-type: none"> Closure Monitor Program for effluent discharge and receiving waters (surface and groundwater water quality, sediment, benthos, flows); Routine physical and revegetation monitoring and geotechnical inspection; Lower Laura Creek monitoring program for Se. 	<ul style="list-style-type: none"> AMP for heap (Appendix G); AMP for Lower Laura Creek monitoring program for Se. Exceedances in site specific Se criteria at lower Laura Creek trigger implementation of AMP.
<i>Infrastructure and Buildings</i>	<ul style="list-style-type: none"> Infrastructure and buildings removed – Not Applicable. 	<ul style="list-style-type: none"> Terrestrial Reclamation Standards for terrain stability and erosion control. 	<ul style="list-style-type: none"> Terrestrial reclamation standards for revegetation. 	<ul style="list-style-type: none"> Infrastructure and Buildings Removed – Not Applicable; Physical Inspection. 	<ul style="list-style-type: none"> YWB Annual Report and assessment if required.
<i>Haul Road and Trails</i>	<ul style="list-style-type: none"> See Stream Crossings. 	<ul style="list-style-type: none"> Engineering criteria, DRP, Volume I, Section 4.3.5.3; Terrestrial Reclamation Standards for terrain stability and erosion control. 	<ul style="list-style-type: none"> Terrestrial reclamation standards for revegetation. 	<ul style="list-style-type: none"> Routine physical and revegetation monitoring. 	<ul style="list-style-type: none"> YWB Annual Report and assessment if required.
<i>Main Access Road</i>	<ul style="list-style-type: none"> See Stream Crossings. 	<ul style="list-style-type: none"> Options for closure to be determined with community; Physical inspection. 	<ul style="list-style-type: none"> Options for closure to be determined with community; Physical inspection. 	<ul style="list-style-type: none"> Routine physical and revegetation monitoring. 	<ul style="list-style-type: none"> Not applicable.