

August 12th, 1969.

Mr. J.P. Heron, President, Swim Lake Mines Ltd., 685 - #2 Bentall Centre, Vancouver, 1, B.C.

Dear Mr. Heron:

We submit herewith a short summary and description of the results of our recent geological investigations, together with maps, concerning your optioned mineral claims covering the Imperial and Emeline workings north of and close to Rock Creek, B.C.

This geological work was completed subsequent to a survey of the underground workings of the Imperial Mine.

It should be noted little or no work has been conducted on the adjoining claims to the north, northeast and east to date but that this is currently in progress.

The Imperial Mine workings are located in orange rhyolitic rocks containing numerous stringers of quartz and calcite, underlain by fine-grained cherty banded gray limestones. The rhyolites exhibit flow structure with a general N to NN trend.

The mineralization, 1' to 6' in thickness, occurs in the limestones close to the rhyolite contact, adjacent to and below a narrow fault striking S40°E and dipping N35°E. The thickest section of the ore zone occurs near the surface, pinching and tightening to 2" to 1" before being terminated by a NE-SW fault at a point where three finger-like drifts branch from the southeast end of the workings. (See "Imperial Property" map attached).

The mineralization varies from massive to disseminated in the shear zone, with galena, sphalerite, pyrite and arsenopyrite observed. Ruby silver has been noted in old reports, but was not seen.

In the southeast portion of the workings, minor internal faults have evidently caused upward displacement to the southeast. The possible continuation of the mineralized zone could therefore be above the drift in this direction. Likewise, a strong NE-SW fault 30 feet from the main portal could have caused the known mineralized zone to be the continuation of a section located in an area lower down to the northwest.

A series of samples have been taken from the mineralized zones, both on the Imperial and Emeline claims and the neighbouring Riverside property, for comparison. Results are shown on maps attached to this report.

The Riverside workings are in a different geological environment with the mineralization occurring within green andesitic rocks. Narrow shear zones can be observed with a strike of N65°E and a dip of 25°-30° SE. Quartz and calcite have been injected along these shear zones with concentrations of mineralization occurring in blobs and patches with the quartz.

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Like the Imperial, the mineralized zone is widest near the surface and weakens to the northeast along strike. There are two mineralized zones (north and south) which could be two parallel structures en echelon, or the south zone might be the faulted extension of the down dip continuation of the north vein.

Diamond drilling has been initiated to test the Imperial zone of mineralization about 40' below the lowest level. Geological mapping and preliminary experimental geochemistry are continuing.

> Respectfully submitted, BACON & CROWHURST LTD.

J.V. Murton, B.Sc.



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Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.

TELEPHONE 688-3504

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM c/Bacon & Crowhurst J.W. Murton

SAMPLE(S) OF

ROCK

SWIM LAKE MINES

V-6180

REPORT NO.

Submitted on July 23, 1969.

SEMIQUANTITATIVE ESTIMATES

	Sample	WIDTH No.	Gold (Au)oz:ton	Silver (Ag)oz:ton	Lead (Pb)%	Zinc (Zn)%
I MPERIAL	1802	4.3	0.2	5.3	2.0	2.6
	1803	5.0	0.1	6.5	2.3	2.8
11	1804	4.0	0.1	4.0	0.5	1.3
\odot	1805	3.5	trace	1.8		
11	1806	6.0	0.1	9.8	2.2	2.7
11	1807	3.8	trace	0.5		
11	1808	6.7	0.1	2.5	0.3	0.7
ij	1809	1.3	trace	1.6	0.6	0.7
i.	1810	2.5	0.3	8.6	0.3	1.1
14	1811	3.0	0.2	6.3	0.4	1.3
1)	1812	3.0	0.1	5.0	1.0	1.6
U .	1813	1.0	0.2	10.9	1.9	3.8
· V	1814	Derech	0.2	14.0	2.5	2.7
EMELINE	1815	DUM	0.1	2.0	0.0	4.3
11	1816	Dump	trace	1.0	0.3	0.4
RIVERSIDE	1817	0.9'	trace	4.3		
L1	1818	1.6	0.1	3.1-	0.3	2.10
1,1	1819	3,3	trace	5.5	0.6	0.9
5.1	1820	0.7	0.1	2.8	0.4	0.7
O 11	1821	3.0	0.1	15.0	0.9	1.6
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DATE July 28, 1969.

oz:ton -- Troy

ounces

0

60% SIGNED

PULP AND REJECTS DISCARDED AFTER 3 MONTHS

DIVISION OF TECHNICAL SERVICE LABORATORIES



Laboratories

325 HOWE STREET - VANCOUVER 1, B.C.

TELEPHONE 688-3504

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

ASSAYERS

GEOCHEMISTS

SWIM LAKE MINES

REPORT	NO.
v-6181	

SAMPLE(S) OF

ROCK Submitted on July 23, 1969.

		SE	MIQUANTITATIV	e estimates		
	Sample	No. WIDTH	Gold (Au)oz:ton	Silver (Ag)oz:ton	Lead (Pb)%	Zinc (Zn)%
RIVERSIDE	1822	3.0	trace	7.5 -	0.6	1.0
ц	1823	FINES	trace	3.8	0.4	0.5
	1824	1.6	0.2	>20	2.0	3.3
О н	1825	2.0'	0.1	14.5	0.7	trace
(1	1826	2,2	trace	7.0-		****
U	1827	1.4	0.1	20.5		
11	1828	1.2	trace	6.9	60 av en en	
H A	1829	2.2	0.1	13.6		
U.	1830	1.0	trace	1.3		
Ît	1831	1.0	0.2	6.2		
<i>i1</i>	1832	1,2	0.3	>20	1.7	trace
	1833	0.7'	0.1	3.9	****	
11	1834	0,8'	trace	5.0		
• •	1835	2,0	0.2	21.1		
11	1836	1.4	trace	4.0		

oz:ton - Troy ounces per 2,000 1bs.

DATE July 28, 1969.

SIGNED AB Altchis

PULP AND REJECTS DISCARDED AFTER 3 MONTHS

DIVISION OF TECHNICAL SERVICE LABORATORIES



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10100N					10100 N
10000 N					10000 N





2.96

t.

12

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inches

centimetres

3

BACON & CROWHURST LTD. VANCOUVER BRITISH COLUMBIA SWIM LAKE MINES LTD. ROCK CREEK, B. C.

RIVERSIDE PROPERTY

