2007 PROSPECTING REPORT

ON THE

MAMQUAM 5 CLAIM

IN THE PACIFIC RANGES OF THE COAST

MOUNTAINS, 92 G/10

NEW WESTMINSTER MINING DIVISION

122 DEGREES 55 MINUTES 25 SECONDS WEST

49 DEGREES 37 MINUTES 54 SECONDS NORTH

CLAIM: MAMQUAM 5

TENURE NUMBER: 558954

OWNER OPERATOR: KEN MACKENZIE

FMC# 116450

AUTHOR: KEN MACKENZIE

SQUAMISH, B.C. JUNE, 2008

EVENT NUMBER: 4215876

1.

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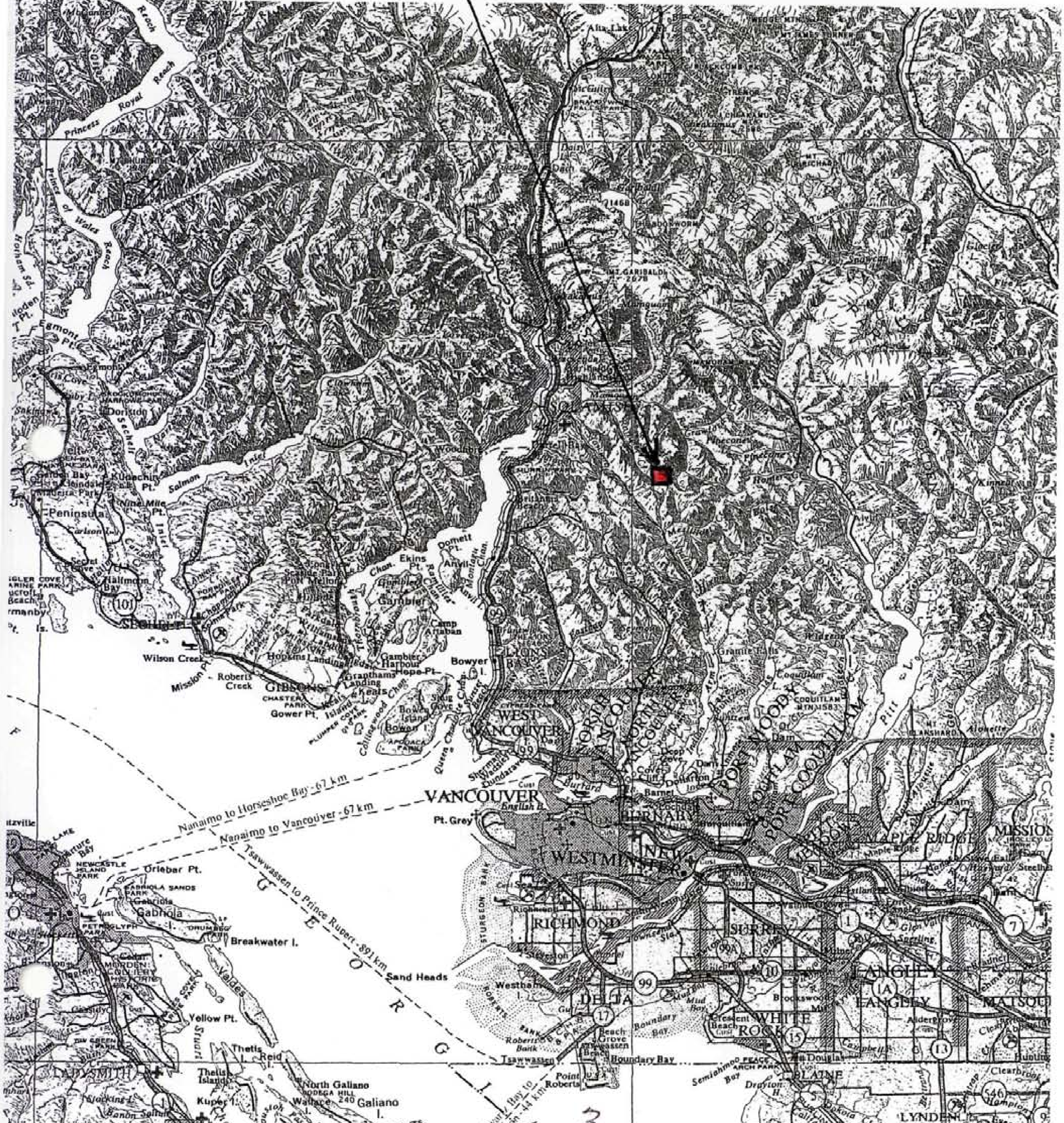
N

MAMQUAM PROSPECT **MAP #1**

1:600,000

0 10 20 30 40 50 Km



MAMQUAM 5 CLAIM
INTRODUCTION

The Mamquam 5 claim is located in the Pacific Ranges of the Coast Mountains near the headwaters of the Mamquam River. See Map #1 (the index map) for the location. The property can be accessed by road from Squamish. Drive south from Squamish on highway 99 to the Mamquam main logging road, which is reached just beyond a bridge over the Stawamus River near the base of the Stawamus Chief (a well-known rock climbing area). Turn left (east) off the highway and follow the main road, which is marked in miles rather than kilometers. Logging trucks or construction vehicles may be present on this road so drive carefully with your lights on and use a radio. The correct frequency is posted. At approximately 2 ½ miles the road crosses the Stawamus River, and continues on past a new run of the river electrical generating plant (mile 6 to 8). At mile 9 the road crosses a bridge over the Mamquam River and stays on the north and east side of the river until the headwaters are reached. At mile 15 the road narrows and becomes steep for a short section. I usually stop there and make more calls than usual on the radio to ensure there are no loaded logging trucks coming down that section of the road. There is a fork in the road at mile 15, but the right hand fork has been decommissioned and is cross-ditched so it is relatively easy to identify the main road that goes uphill to the left. Both roads leading from mile 15 can be used to access the Mamquam 5 claim and trails along old logging roads have been cleared as shown on Map # 2.

Continuing along the main road, at mile 18 the logging road again heads uphill to the left, but you should continue straight ahead onto a decommissioned, cross-ditched road that soon crosses the Mamquam River near its headwaters. The road is easily drivable with a four-wheel drive vehicle that has sufficient clearance. Continue on the main road that parallels the Mamquam River. This road intersects the boundary of the Mamquam 5 claim at UTM10: 505769, 5498008. At about 600 meters along the road from the claim boundary, there is another junction. The right fork heads downhill to the west and crosses the Mamquam River near its headwaters and is the main road used to access the Mamquam 1-4 claims. The left fork heads uphill to the south. This road is not drivable so we usually park at the junction and hike the road, which provides access to the south section of the

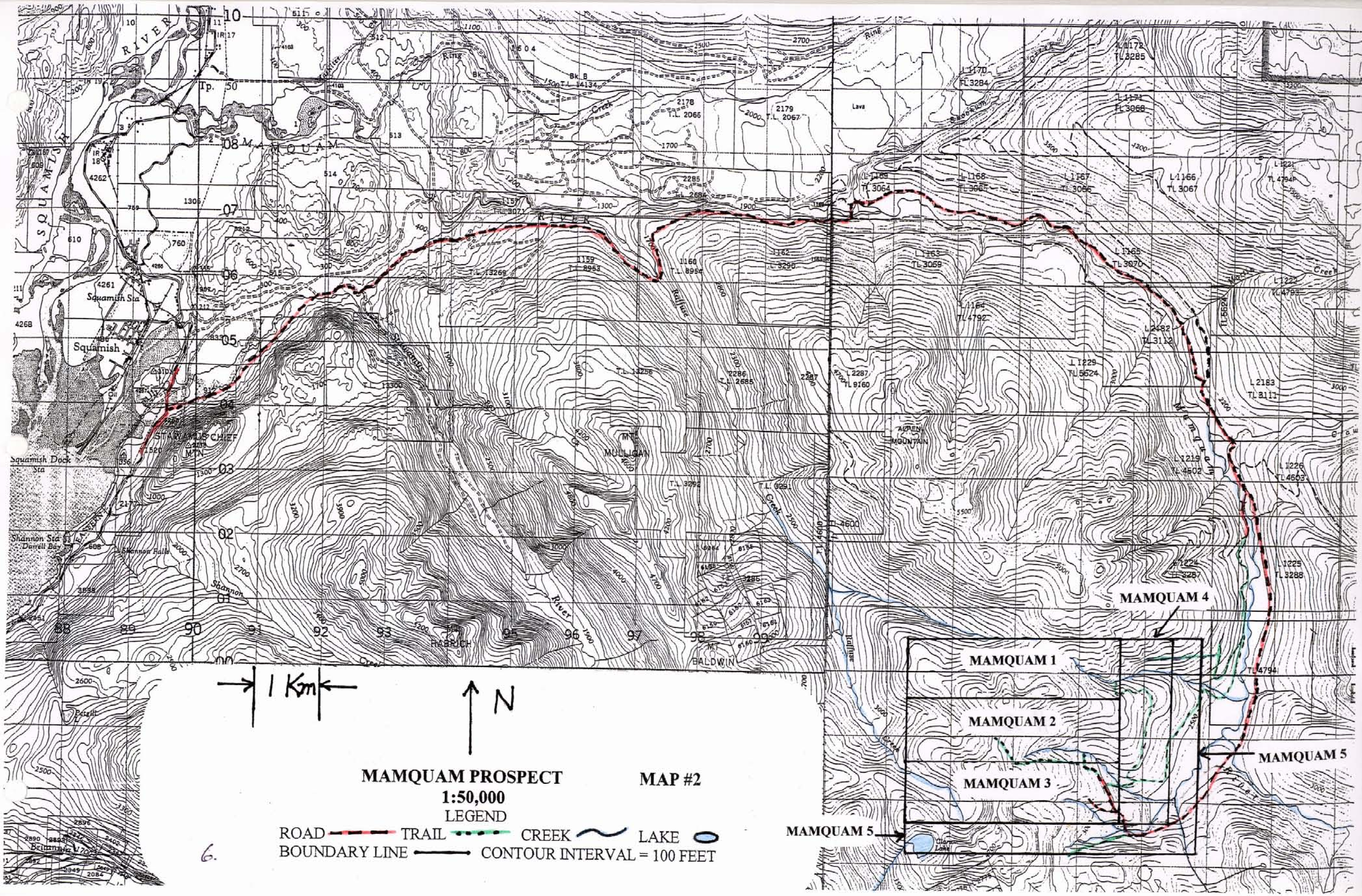
Mamquam 5 claim. These roads and trails are shown on Map #2 (the 1:50,000 index map), which shows the property in relationship to the Mamquam River, Raffuse Creek, Clarion Lake, the Stawamus River and the town of Squamish.

There are numerous deer and black bears in the area, and in the Indian River drainage elk have recently been introduced, and are thriving. The animals use the roads and trails regularly so caution is advised. To date no signs of elk have been seen in the Mamquam River area but I expect them to cross over the easily negotiated passes in the near future.

The tenure number for the Mamquam 5 claim is 558954.

Most of the property is covered with soil or glacial till so rock outcrops are infrequent. As a result, prospecting has been mainly done by following the stream sediment geochemistry, examining creek beds, and outcrops in the creek banks. Outcrops on or near old logging roads have also been prospected.

There are two main rock types found on the property, Gambier Group metamorphosed volcanics that contain rhyolites, andesites, cherts, tuffs and volcaniclastics, and intrusive rocks such as granodiorite and quartz diorite. These are the same rocks that are associated with the Britannia Mine; so the model originally used was of a volcanogenic massive sulphide type of mineralization. This model still applies, but now that some rock float containing chalcopyrite in silicified quartz diorite (which was analyzed to contain 1½% Copper) has been found, as well as other boulders that contain quartz veins, pyrite, galena and sphalerite, the model has been expanded to include a feeder zone.
Intrusive rocks and silicified andesites that contain low-grade chalcopyrite have also been found and may represent a possible porphyry copper occurrence.
Combined volcanogenic massive sulphide and porphyry copper deposits have been described in the literature, although not in the Coast Range Mountains. Nevertheless, the potential is present, and typical mines of this type are known to contain billions of pounds of copper. It should be emphasized, however, that most deposits are not that large, and do not become mines, so there is considerable risk in exploring these prospects. To date no massive sulphide, feeder zone or porphyry copper deposit of commercial value has been identified on the Mamquam property.


MAMQUAM PROSPECT
1:50,000
MAP #2
LEGEND
ROAD
TRAIL
CREEK
LAKE
BOUNDARY LINE
CONTOUR INTERVAL = 100 FEET
1 Km
N
MAMQUAM 1
MAMQUAM 2
MAMQUAM 3
MAMQUAM 4
MAMQUAM 5
MAMQUAM 5
Squamish
STAWAMUS CHIEF MTN
MT. MULLIGAN
MT BALDWIN
MT HABRICH
Shannon Falls
Squamish Dock Sta
MAMQUAM
RIVER
6.

↑
N
↑

MAMQUAM 5 CLAIM

1:20,000 **MAP # 3**

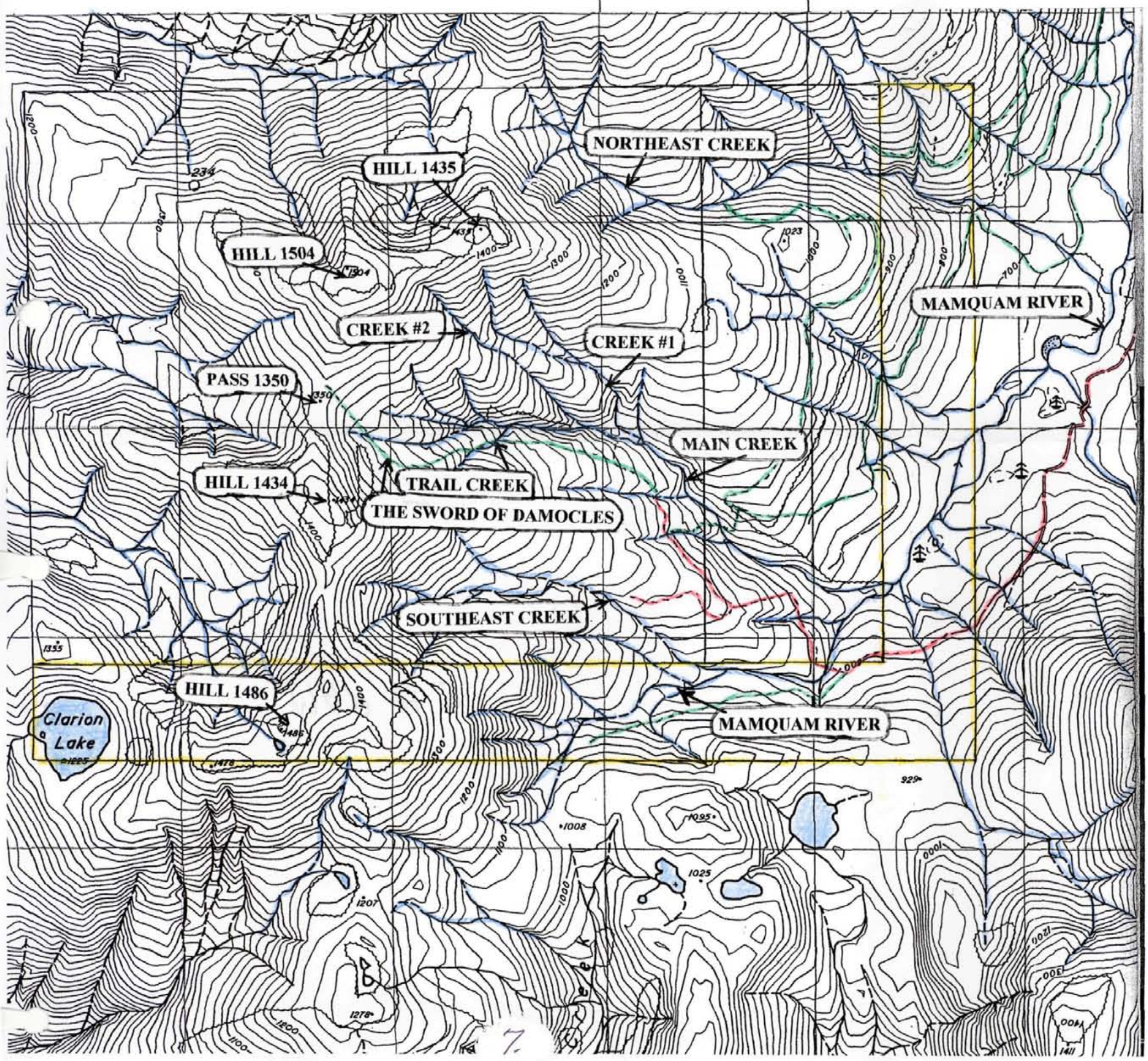
PLACE NAMES, ROADS AND TRAILS

LEGEND

ROAD — TRAIL — CREEK OR RIVER — LAKE

BOUNDARY LINE — CONTOUR INTERVAL = 20 METERS

1 Km



HISTORY OF THE MAMQUAM 5 CLAIM

A detailed history of the Mamquam claims was documented in my 2005 prospecting report. Please refer to that report for a more complete summary. This report on the history will be shorter and will provide only a brief description of the property, and the subsequent findings that led to the decision to stake the Mamquam 5 property on May 20, 2007.

This property was discovered in 1979 using a dithizone field test and stream sediment analyses performed in commercial labs. The original model was a volcanogenic massive sulphide type of deposit similar to that found in the nearby Britannia Mine. The highest geochemical values found at that time surrounding hill 5000 (this name refers to the elevation of the hill in feet, as shown on the 1:50,00 map. However, I am now using a 1:20,000 map that shows the elevations in meters and the new name is hill 1504). This area was thought to contain one or more massive sulphide lenses. This interpretation is still considered valid, but in 2005, other types of mineralized rock were found that indicated the presence of a feeder zone. In addition, chalcopyrite disseminated in quartz diorite intrusive rocks has been discovered on the Mamquam 3 claim, and high-grade chalcopyrite was found close to the eastern boundary of the Mamquam 4 claim.

On August 31, 2006, Rick Price and I traversed into the Indian River drainage system by hiking south and west along an old logging road (shown as a trail on Map # 2 and Map # 3) and then cut our way through an incredibly thick growth of salmon berry, devils club, blueberry bushes and logging slash to reach the mature forest. The traveling was much easier under the big trees and we quickly reached the headwaters of Caledonian Creek, which we ascended, crossed the divide into the next creek to the west and descended the first major branch until we were stopped by a large waterfall at about 1120 meters. We took a sediment sample from this site (M 44), which drains the ridge that lies to the south of the Mamquam 3 claim. Significant results for M 44:

Au	0.011	ppm
Ba	200	ppm
Mn	1900	ppm
Pb	53	ppm
Zn	296	ppm

On October 17, 2006, I parked near the bridge that crosses the Mamquam near its headwaters (at about 780 meters) and hiked up the creek, passed the junction where the southeast creek enters the Mamquam and continued south and west up the Mamquam. I prospected the creek bed wherever bedrock was available and found some rusty rock but did not obtain a sample. Soon I came to a large waterfall that was too difficult to climb so I traversed around it to the south and then descended back into the creek where I obtained a sediment sample from just above the waterfall (M 60). The float in the creek contained a large number of rusty rocks that appeared to contain mainly pyrite.

Significant results for M 60:

Au	0.031	ppm
Ba	100	ppm
Cu	275	ppm
Mn	1625	ppm
Zn	284	ppm

Based on the findings of high-grade copper on the eastern boundary of the Mamquam 4 claim, the anomalous sediment geochemistry found below the southern boundary of the Mamquam 3 claim (M 44), and the anomalous sediment geochemistry found above the waterfall in the headwaters of the Mamquam (M 60), it was decided to stake a claim along both boundaries (Mamquam 5). The Mamquam 5 claim was recorded on May 20, 2007 and its tenure number is 558954.

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HISTORY OF THE MAMQUAM 5 CLAIM

1:20,000 **MAP # 4**

TRAVERSES PERFORMED IN 2006 (BEFORE STAKING) AND SAMPLE SITES

LEGEND

ROAD — TRAVERSE → CREEK ~ LAKE ○

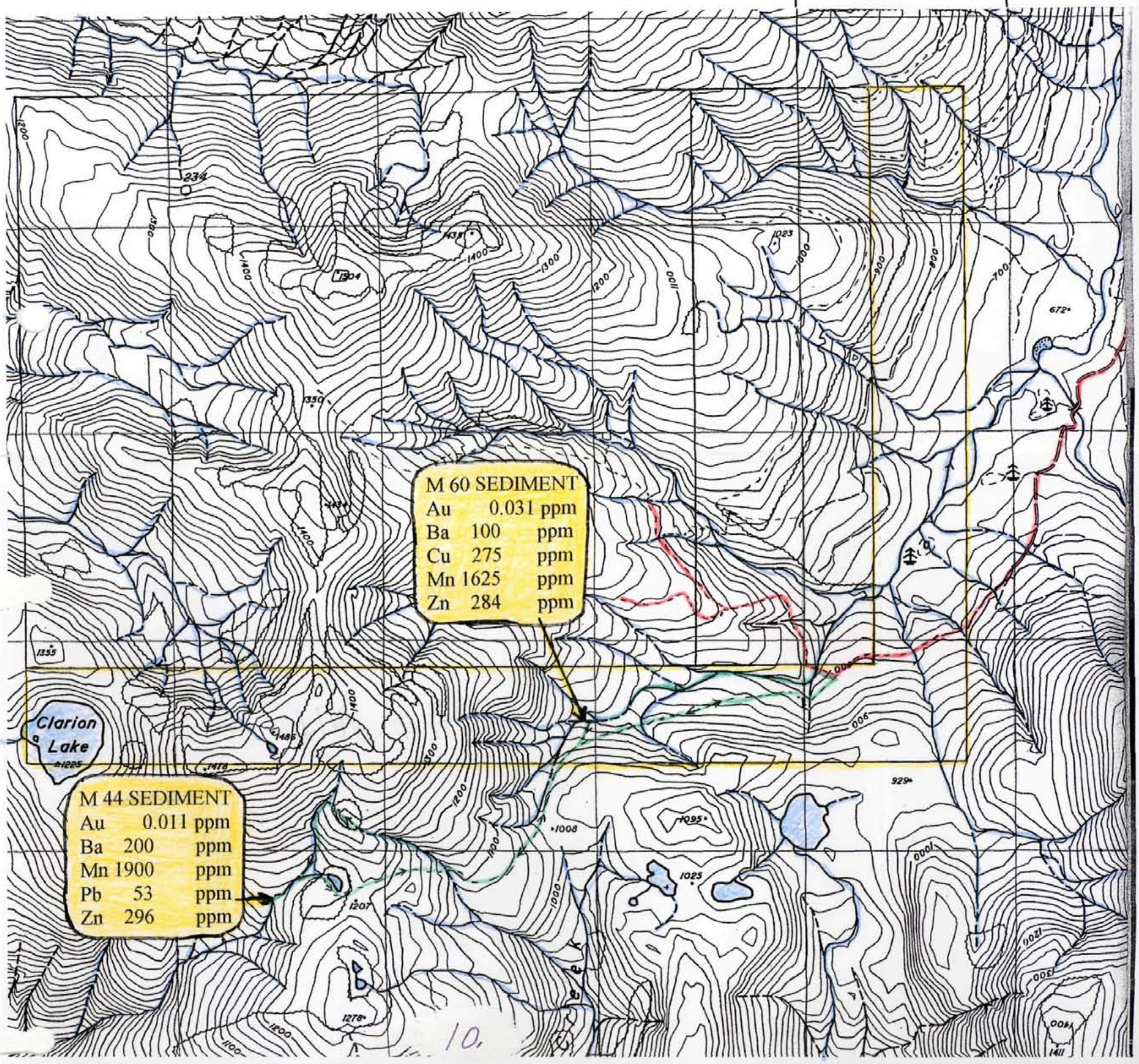
CONTOUR INTERVAL = 20 METERS

BOUNDARY LINE ———

SAMPLE SITE

M 60 SEDIMENT		
Au	0.031	ppm
Ba	100	ppm
Cu	275	ppm
Mn	1625	ppm
Zn	284	ppm

1 Km



HISTORY OF THE MAMQUAM 5 CLAIM

ANALYSIS RESULTS FOR SAMPLES M 44 (HIGHLIGHTED) AND M 60 COLLECTED ON OR NEAR THE MAMQUAM 5 CLAIM IN 2006.

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To: **MACKENZIE, KEN**
PO BOX 641
GARIBALDI HIGHLANDS BC V0N 1T0

Finalized Date: 24-OCT-2006
This copy reported on 27-OCT-2006
Account: MACKEN

CERTIFICATE VA06098363

Project: MAMQUAM

P.O. No.:

This report is for 19 Rock samples submitted to our lab in Vancouver, BC, Canada on 29-SEP-2006.

The following have access to data associated with this certificate:

KEN MACKENZIE

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
PUL-31	Pulverize split to 85% <75 um
SPL-21	Split sample - riffle splitter
CRU-31	Fine crushing - 70% <2mm
SCR-41	Screen to -180um and save both
CRU-QC	Crushing QC Test

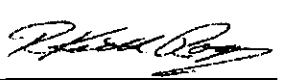
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
Pb-AA46	Ore grade Pb - aqua regia/AA	AAS
Zn-AA46	Ore grade Zn - aqua regia/AA	AAS
Au-AA23	Au 30g FA-AA finish	AAS

12.

To: **MACKENZIE, KEN**
PO BOX 641
GARIBALDI HIGHLANDS BC V0N 1T0

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 
Keith Rogers, Executive Manager Vancouver Laboratory

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Finalized Date: 24-OCT-2006
Account: MACKEN

Project: MAMQUAM

CERTIFICATE OF ANALYSIS VA06098363

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
M-37		0.80	0.127	2.8	0.44	9	<10	220	<0.5	<2	0.09	155.0	3	2	120	0.36
M-38		0.74	0.288	41.3	0.12	92	<10	10	<0.5	<2	0.01	2.2	33	2	>10000	16.6
M-39		0.78	0.092	3.1	0.40	6	<10	10	<0.5	9	0.03	<0.5	91	<1	399	23.5
M-40		0.62	0.006	0.6	2.43	6	<10	40	<0.5	<2	0.26	<0.5	11	11	646	4.76
M-41		0.68	<0.005	<0.2	0.22	3	<10	270	<0.5	<2	0.57	<0.5	1	5	51	0.82
M-42		0.80	0.153	40.9	2.33	10	<10	50	<0.5	<2	0.96	<0.5	42	6	>10000	12.15
M-43		0.84	<0.005	0.3	0.75	9	10	60	<0.5	<2	3.29	<0.5	9	<1	68	3.64
M-45		0.62	<0.005	0.2	0.40	20	<10	90	<0.5	<2	0.10	<0.5	3	3	74	2.94
M-47		0.68	0.125	3.0	0.12	4	<10	60	<0.5	3	3.13	<0.5	6	7	326	1.37
M-48		0.76	<0.005	0.4	2.60	4	<10	70	<0.5	<2	0.80	<0.5	15	2	599	4.30
M-49		0.82	0.088	2.6	0.43	6	<10	10	<0.5	10	0.04	<0.5	104	<1	102	23.1
M-50		0.72	1.100	10.5	0.44	5	<10	50	<0.5	<2	0.07	1.8	4	8	341	2.29
M-51		0.66	0.040	7.4	0.08	2	<10	150	<0.5	<2	0.01	2.6	11	9	>10000	2.52
M-52A		0.66	0.008	0.3	1.14	8	<10	140	<0.5	<2	0.09	<0.5	9	5	69	3.92
M-53		0.96	<0.005	0.4	1.79	<2	<10	90	<0.5	<2	1.11	<0.5	10	13	316	3.04
M-54		0.62	0.010	0.5	0.58	3	<10	130	<0.5	<2	0.07	<0.5	4	3	69	1.96
M-44		0.90	0.011	0.3	2.20	10	<10	200	0.5	<2	0.46	1.2	18	41	89	3.83
M-46		0.82	<0.005	0.2	2.00	9	<10	230	<0.5	<2	0.29	0.7	10	45	108	3.25
M-52		0.96	0.071	0.4	1.48	5	<10	870	<0.5	<2	0.47	0.6	10	33	73	3.22

13.

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Finalized Date: 24-OCT-2006
Account: MACKEN

Project: MAMQUAM

CERTIFICATE OF ANALYSIS VA06098363

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
M-37		<10	1	0.23	10	0.19	65	3	0.01	3	250	>10000	1.28	2	<1	11
M-38		<10	1	0.01	<10	0.04	53	42	0.01	26	20	91	4.68	<2	2	2
M-39		<10	<1	0.22	<10	0.08	68	11	0.01	2	90	28	>10.0	<2	<1	2
M-40		10	<1	0.11	<10	1.92	1010	1	0.05	10	960	12	0.95	<2	4	13
M-41		<10	<1	0.15	10	0.07	193	<1	0.05	<1	90	12	0.10	<2	1	29
M-42		10	1	0.16	<10	2.59	1980	8	0.03	9	690	147	>10.0	3	3	18
M-43		<10	<1	0.11	10	0.80	1260	1	0.05	1	1900	7	0.38	<2	7	77
M-45		<10	<1	0.11	10	0.12	89	3	0.04	2	320	9	2.36	3	<1	9
M-47		<10	<1	0.04	<10	0.27	478	6	0.01	2	50	9	0.63	<2	<1	37
M-48		10	<1	0.17	10	1.94	1060	1	0.04	3	1040	3	0.35	<2	7	54
M-49		<10	<1	0.20	<10	0.14	121	11	0.01	1	170	21	>10.0	<2	<1	2
M-50		<10	<1	0.22	<10	0.17	86	2	0.01	4	340	241	1.93	<2	1	12
M-51		<10	<1	0.03	<10	0.04	64	243	0.01	1	20	33	1.80	<2	<1	5
M-52A		<10	<1	0.24	<10	0.84	884	6	0.01	3	850	15	1.78	<2	2	5
M-53		10	<1	0.18	10	1.72	988	1	0.04	8	860	3	1.13	2	4	19
M-54		<10	<1	0.17	<10	0.31	162	18	0.03	<1	210	12	1.38	<2	1	5
M-44		10	<1	0.17	10	1.40	1900	3	0.06	17	690	53	0.23	2	4	46
M-46		10	1	0.24	10	0.86	1100	4	0.05	8	760	34	0.06	<2	3	30
M-52		10	<1	0.13	10	0.83	661	1	0.05	8	870	24	0.18	<2	2	58

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Finalized Date: 24-OCT-2006
Account: MACKEN

Project: MAMQUAM

CERTIFICATE OF ANALYSIS VA06098363

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-AA46 Cu % 0.01	Pb-AA46 Pb % 0.01	Zn-AA46 Zn % 0.01
M-37		<0.01	<10	<10	3	<10	>10000		1.84	1.94
M-38		<0.01	<10	<10	4	<10	220	11.80		
M-39		<0.01	<10	<10	10	<10	15			
M-40		<0.01	<10	<10	52	<10	86			
M-41		<0.01	<10	<10	2	<10	48			
M-42		<0.01	<10	<10	36	<10	278	1.70		
M-43		0.01	<10	<10	43	<10	64			
M-45		<0.01	<10	<10	7	<10	32			
M-47		<0.01	<10	<10	6	<10	24			
M-48		0.22	<10	<10	76	<10	64			
M-49		<0.01	<10	<10	10	<10	7			
M-50		<0.01	<10	<10	8	<10	82			
M-51		<0.01	<10	<10	2	<10	75	1.78		
M-52A		<0.01	<10	<10	29	<10	91			
M-53		<0.01	<10	<10	46	<10	84			
M-54		0.04	<10	<10	7	<10	24			
M-44		0.04	<10	<10	63	<10	296			
M-46		0.03	<10	<10	44	<10	173			
M-52		0.06	<10	<10	47	<10	105			

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To: MACKENZIE, KEN
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Finalized Date: 8-DEC-2006
Account: MACKEN

CERTIFICATE VA06112119

Project: MAMQUAM

P.O. No.:

This report is for 1 Stream Sediment sample submitted to our lab in Vancouver, BC, Canada on 3-NOV-2006.

The following have access to data associated with this certificate:

KEN MACKENZIE

SAMPLE PREPARATION

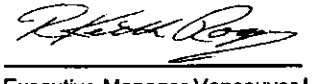
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

To: **MACKENZIE, KEN**
PO BOX 641
GARIBALDI HIGHLANDS BC V0N 1T0

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 

Keith Rogers, Executive Manager Vancouver Laboratory

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GARIBALDI HIGHLANDS BC V0N 1T0

Finalized Date: 8-DEC-2006
Account: MACKEN

Project: MAMQUAM

CERTIFICATE OF ANALYSIS VA06112119

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
M-60		0.82	0.031	0.3	2.31	9	<10	100	0.5	<2	0.28	1.0	19	14	275	4.56

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Account: MACKEN

Project: MAMQUAM

CERTIFICATE OF ANALYSIS VA06112119

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
M-60		10	1	0.11	10	1.36	1625	7	0.02	15	760	30	0.14	<2	4	22

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PO BOX 641
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Finalized Date: 8-DEC-2006
Account: MACKEN

Project: MAMQUAM

CERTIFICATE OF ANALYSIS VA06112119

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ti	Tl	U	V	W	Zn
	Units	%	ppm	ppm	ppm	ppm	ppm
	LOR	0.01	10	10	1	10	2
M-60		0.02	<10	<10	52	<10	284

19

SUMMARY OF WORK PERFORMED ON THE MAMQUAM 5 CLAIM IN 2007

All the prospecting trips into the Mamquam property in 2007 were day trips. Although the end of the road as shown on Map # 2 is over 40 Km from Squamish, this is close enough to allow daily access. The road is severely potholed and is narrowing in many places as the trees grow on the shoulders and lean into the driving space. Each year work is required so that access to the claims can be maintained. The road and trail access work is apportioned to the various Mamquam claims, depending on which claims are reached by the roads and trails cleared.

Sunday, May 13, 2007
I drove the Mamquam roads clearing small trees from both sides of the road. Fortunately other people had been along the road and had used a chainsaw to cut all the big trees that were blocking the road. I took the right fork at mile 15 and found the deep cross ditch to be deeper than last year. I added rocks to the lower end of the cut and then drove through, proceeding to the bridge over the Mamquam River, which also needed rocks to fill holes in the deck. I continued clearing small trees from the road to the parking spot, and then returned to the main road and continued clearing until I reached snow line at about mile 17. I returned to Squamish clearing small trees on the way, but noted that there were many more to be removed on future trips.

Monday, May 21, 2008
I drove to Mile 15, clearing some small trees on the way and took the right fork in the road and parked where the trail begins (this trail follows an old logging road that is covered with alders and willows). I cleared the trail for approximately one kilometer and found many trees and branches obstructing the route, but the traveling was not severe. On the way back I continued to clear branches from the trail and the road on the way back to Squamish. I saw one deer and found a recent pile of black bear dung that was a mixture of some brown fibrous material and the more usual black dung. Apparently black bears eat a lot of fibrous material in the fall that blocks their rectum and protects it from invasion by parasites. In the spring their first one or two bowel movements contain the brown fibrous material, which shows that they have recently emerged from their dens.

Tuesday, June 5, 2007
I drove the Mamquam roads again, clearing small trees and branches until I reached mile 19, where I was stopped by a large snow patch. The snow in this area is shaded by trees surrounding a creek and the road crosses a bridge that is just below a waterfall, so it's a particularly cold spot. Clear road could be seen beyond the snow patch but it was too big and too deep to drive through.

Friday, June 8, 2007
I returned to the same place (mile 19), clearing small trees and branches on the way. The snow patch was smaller, but still impassible. I noted that it would be gone soon and that we should be able to get closer to the claims within two weeks.

Tuesday, June 1, 2007
It was clear from my previous trips that my usual route to the claims would not be open for a while so I decided that the lower, warmer area from mile 15 would likely be snow free sooner and that prospecting could be started earlier on the Mamquam 4 and 5 claims if the trail could be cleared.
Rick Price and I drove to mile 15, took the right fork, crossed the Mamquam River and parked at the trailhead. We hiked to where I had stopped clearing on the previous trip and then continued improving the trail. We reached a junction with another old logging road that headed uphill and southwest but we continued on the lower road, clearing trail until we came close to the Northeast Creek. We then returned to the truck. The return time was thirty-five minutes for over two kilometers of trail.

Thursday June 14, 2007
I drove to mile 15, took the right fork, crossed the Mamquam River and parked at the trailhead. I hiked to where Rick and I had cleared the trail on June 1, 2007 and then continued removing small trees and branches until I reached the Northeast Creek. I crossed on the same logs that I had used last year, and then continued clearing trail to the only switchback in the road, which occurs right at the boundary of the Mamquam 5 claim. I prospected the outcrops in this area, and found mainly intrusive rocks that contained quartz, light orange feldspars, epidote in the rock and in the fractures, and mafic minerals that were altered to chlorite. There was also an interesting quartz vein found near the switchback that had a narrow band of pyroxene running in the middle and wider bands of epidote on both sides of the quartz vein. No sulphides were seen in the bedrock or the quartz vein so no samples

were taken. I checked the banks of the Northeast Creek for possible access into the north section of the Mamquam 4 and 5 claims, but this route did not look passable, so I realized that the other logging road would have to be cleared as well.
I had been using a loud horn to warn the bears away, but it was made of light plastic and got broken while I was crashing through the bush. This was not a problem on my return, but I certainly could have used the horn on my next trip along this trail.

Tuesday, June 19, 2007
Drew Leathem and I drove up the main road and did a lot of work clearing the road between mile 18 and mile 19. We parked just before the last bridge over the headwaters of the Mamquam River (which was still buried with snow) and prospected south and west along the old logging road, which is marked on my maps as a trail. The rock near the junction was intrusive, likely quartz diorite, that contained quartz, white feldspar, epidote disseminated in the rock and in the fractures and some mafic minerals altered to chlorite. Although no sulphides could be seen, a sample was taken (M 65).
There were no significant results for M 65.

Further along the road, we found a large rhyolite dyke that had red or purple veins running through it. I was interested to know the minerals in these veins, so a sample was taken (M 66).
There were no significant results for M 66.

We then returned to our vehicle and headed home, prospecting the road as we went. About 175 meters from the major creek crossing, we found an iron-stained area that contained a 20 centimeter wide massive sulphide vein that was composed mainly of pyrite with some quartz and epidote running through it. A sample was taken (M 67).
Significant results for M 67:

Au	0.086	ppm
Co	381	ppm
Fe	21.9	%
W	280	ppm

On the north bank of the major creek, we found more intrusive rocks that resembled those found near the Northeast Creek. These rocks contained quartz, light orange feldspars, epidote disseminated in the rock and in the

fractures, and chlorite. The rocks were iron-stained, but no sulphides could be seen. A sample was taken (M 68).
Significant results for M 68:

Ba	130	ppm

Wednesday, June 20, 2007.
I drove to mile 15, took the right fork, crossed the Mamquam and parked at the trailhead. I followed the trail that had recently been cleared, crossed the Northeast Creek, had a rest and a snack and then proceeded on my way, making lots of noise by shouting.
I had only gone a few steps when a large, mature, black bear appeared, walking down the trail towards the creek. I shouted some more, waved my arms, took my pack off, unshipped my bear spray and rock hammer, and prepared for a confrontation because the bear was still walking slowly towards me. I was surrounded by bush and the bear was in an open area so it was probably difficult for him to see me. In addition, the bear seemed distracted and oblivious to everything around him.
Once he did hear me and see me, the bear stopped and turned sideways. At this time a second big bear appeared behind the first one. Obviously things were getting much worse. However, my shouting finally intimidated both bears. The first bear ran into the bush beside the road and the second bear ran quickly up the trail in the direction I wanted to go. I threw a few rocks into the bush where bear number one had gone and continued up the trail shouting. Once I had gone quite far I decided I should continue clearing trail and got out my clippers and saw. As I worked, I looked back and there was one of the black bears on the trail watching me cut trees. I assumed that was bear number two. Again I shouted and waved. The bear slowly ambled into the bush and out of sight, but was clearly not intimidated enough to run. Once again I hiked a long way before I started clearing bush and this time I shouted forward and backwards until I was well away from the area.
As I went, I prospected and cleared trail until I reached my goal, which was two steep gullies, where I had found significant mineralization before. I collected another sample from the south gully (to be described later in the 2007 Mamquam 4 report), returned to the road, rested and ate something and then headed back the way I had come, knowing that I had to pass the big black bear area. Before I got there I obtained a sediment sample from a small creek on the Mamquam 5 claim. This creek showed intrusives and altered volcanic rocks in the float and contained a moderate amount of a white, clay-like material in the rocks and the sediments. A sediment sample was taken (M 70). There were no significant results for M 70.

I continued clearing trail on the return trip, and had resolved that I would only clear for part of the distance and then I would take out my bear spray and rock hammer just in case.

As it turned out, I should have been prepared a little sooner. I was giving the bears adequate warning by shouting, and with the wind at my back taking my scent in the direction of travel, I really did not expect trouble. However, suddenly one of the black bears appeared facing me. The bush was low but moderately thick in this spot and the bear was moving quickly up the trail towards me with only his head showing because he was crouched low (as predators do when they stalk or attack).

The bear clearly had no intention of being intimidated this time and he was intent on a physical showdown that he expected to win. I shouted loudly but that only slowed him a bit. It was clear that I had no time to get my pack off to get my bear spray and rock hammer out. Fortunately I had my bear banger ready to go in my shirt pocket. I took it out, shouted bang, then fired it high into the air, hoping that it would not go off behind the bear and panic him to run right at me.

The bear banger makes a significant noise when it shoots the projectile, and that noise put a bit of fear into the bear. The projectile then fell from the sky on or near the bear and exploded with a really loud noise. This time the bear ran off the trail and did not return. I slowly and carefully reloaded my bear banger with another cartridge, got my bear spray and hammer ready and then continued my trip shouting and crashing through the bush until I reached the truck safely.

An expert on bears advised me that the two bears were probably a mated pair and that I had very likely interrupted their courting behaviour, which infuriate one of them, likely the male.

I certainly don't blame the bears for being upset, and if I'd had my loud horn with me it's unlikely that any of this would have occurred. I would have sounded the horn while I was at the Northeast Creek, and both bears would have had lots of warning. They could have disappeared into the bush and let me pass peacefully, which is the normal course of events. Since then I've changed the type of horn I use to a stronger model that has been subjected to a lot of hard use and hasn't broken yet.

This was the second time in two years that I've faced a serious threat from a bear and I've become more concerned and considerably more cautious as a result. I would like to have a powerful weapon for defense, but a rifle is too heavy and too awkward in the bush and obtaining a handgun in Canada is virtually impossible, so I've had to do without.

Wednesday, June 27, 2007
Drew Leathem and I drove to mile 15, took the right hand fork, crossed the Mamquam River and parked at the trailhead. We hiked along the trail that Rick and I had cleared previously to the junction where another old logging road heads southwest and uphill. There were a lot of small trees down and some larger ones that we managed to cut through with our hand tools, but it was hard work and took a long time. Nevertheless, we were able to get through all the trees and found ways around other difficult places. We cleared trail to the first switchback and part way up the next hill before turning back. I wanted to check out an old spur that was shown on the map exiting from the upper part of the switchback. We found the spur but it was so grown in with thick alders that crashing through the forest was easier going, although still difficult. It was obvious that this short side-route to the northeast creek was not a good one so we abandoned that idea and returned to the truck and Squamish.

Tuesday, July 3, 2007
Drew Leathem and I drove to the end of the road for the first time this year. All the snow was off the roads and we prospected back along the road doing work on the Mamquam 1-3 claims, Mamquam 4 claim and the Mamquam 5 claim. Only the work done on the Mamquam 5 claim will be reported here. We drove back over the headwaters of the Mamquam to the junction with the old logging road that heads mainly west and slightly south (marked as a trail on the maps), where we parked. We hiked to the end of the road and then crashed through the logging slash to the small stream that is the headwaters of the Mamquam River. We traversed downstream until we reached the site where I had previously collected sample M 60, and carefully prospected upstream. We quickly found a band of iron-stained intrusive rocks that contained considerable pyrite and a sample was taken (M 76). There were no significant results for M 76.
We then climbed up the steep north bank and crossed a small side stream, bypassed the waterfall to the north and returned to the Mamquam below the waterfall where we found another band of intrusive rocks that contained occasional veins of chalcopyrite. The intrusive rock contained quartz, vuggy quartz, pink feldspars and chlorite. A one-foot chip sample was taken across the direction of the small veins (M 77).
Significant results for M 77:

Ca	1.91	%
Cu	159	ppm

We then climbed out of creek to the east and bushwhacked uphill through the logging slash back to the road, the truck, and returned to Squamish.

Wednesday, July 18, 2007
I drove the Mamquam main road clearing small trees and branches until I reached a small stream that crosses the road on the boundary of the M 5 claim. A sediment sample was taken from the stream above the road (M 78)
Significant results for M 78:

Al	2.97	%
Au	0.014	ppm
Mn	1010	ppm
Zn	185	ppm

From there I continued clearing the road to near the end and then returned to Squamish.

Thursday, August 30, 2007
Michael MacKenzie and I drove to the junction just before the last bridge over the Mamquam River headwaters and then hiked up the old logging road. We found an angular boulder on the side of the road. The rock was an intrusive that contained quartz, epidote and pyrite. A sample was taken (M 87).
Significant results for M 87:

Zn	99	ppm

We continued hiking up the road and found an outcrop of similar intrusive rocks that contained quartz and pyrite (Sample M 88).
Significant results for M 88:

Au	0.031	ppm
Zn	84	ppm

From the end of the road we descended into the Mamquam River that is a small creek at this level. We found a large boulder that may actually be bedrock. This rock had a knobby iron-stained surface that is typical of the stringer ore found near trail creek. The rock contained mainly quartz (flooding) with pyrite and chalcopyrite. A sample was taken (M 89).
Significant results for M 89:

Au	0.023	ppm
Cu	894	ppm
Fe	8.62	%

We prospected down the creek until we could enter the small side creek that flows into the Mamquam from the west, just above the waterfall. We prospected up this creek until it became quite small. No significant bedrock or float was found in the creek but we took a sediment sample at about 960 meters (Sample M 90).
Significant results for M 90:

Au	0.016	ppm
Zn	150	ppm

We then contoured south until we returned to the Mamquam River at about the same level (960 meters) and took a sediment sample from here as well (M 91). This site is upstream from M 89.
Significant results for M 91:

Au	0.017	ppm
Cu	177	ppm
Zn	117	ppm

From this creek we climbed up the bank into the mature forest and then battled our way through the logging slash until we reached the end of the road and hiked back to the truck. As we drove home along the road we stopped and took a sediment sample from the major creek that has a beautiful waterfall and a pool just above the road (M 92).
There were no significant results for M 92.

↑
N
↑

MAMQUAM 5 CLAIM

1:20,000 **MAP # 5**

MAIN AREAS PROSPECTED IN 2007, RELATED TRAVERSES AND SAMPLE SITES

LEGEND

ROAD — TRAVERSE — CREEK — LAKE

MAIN AREA PROSPECTED

CLAIM BOUNDARY LINE

CONTOUR INTERVAL = 20 METERS

SAMPLE SITE M 68

1 Km

M 70

M 92

M 78

M 68

M 90

M 76

M 77

M 91

M 88

M 87

M 66

M 65

M 67

M 89

Clarion Lake

N

MAMQUAM 5 CLAIM

1:20,000

MAP # 6

2007 SIGNIFICANT RESULTS AND THEIR LOCATIONS

LEGEND

ROAD — TRAIL — CREEK — LAKE

CLAIM BOUNDARY

CONTOUR INTERVAL = 20 METERS

SAMPLE SITE

M 67 SULFIDE VEIN
Au 0.086 ppm
Co 381 ppm
Fe 21.9 %
W 280 ppm

← 1 Km →

M 78 SEDIMENT
Al 2.97 %
Au 0.014 ppm
Mn 1010 ppm
Zn 185 ppm

M 91 SEDIMENT
Au 0.017 ppm
Cu 177 ppm
Zn 117 ppm

M 90 SEDIMENT
Au 0.016 ppm
Zn 150 ppm

M 77 BEDROCK
Ca 1.91 %
Cu 159 ppm

M 68 BEDROCK
Ba 130 ppm

M 89 ROCK FLOAT
Au 0.023 ppm
Cu 894 ppm
Fe 8.62 %

M 88 BEDROCK
Au 0.031 ppm
Zn 84 ppm

M 87 ROCK FLOAT
Zn 99 ppm

M 67 SULFIDE VEIN
Au 0.086 ppm
Co 381 ppm
Fe 21.9 %
W 280 ppm

Clarion Lake

N

MAMQUAM 5 CLAIM

1:10,000

MAP # 7

2007 SIGNIFICANT RESULTS AND THEIR LOCATIONS – DETAIL OF THE SOUTH CENTRAL SECTION OF THE CLAIM

LEGEND

ROAD — TRAIL — CREEK — LAKE

CLAIM BOUNDARY

CONTOUR INTERVAL = 20 METERS

SAMPLE SITE

100 200 300 400 500 meters

1 Km

M 77 BEDROCK
Ca 1.91 %
Cu 159 ppm

M 90 SEDIMENT
Au 0.016 ppm
Zn 150 ppm

M 77 BEDROCK
Ca 1.91 %
Cu 159 ppm

M 89 ROCK FLOAT
Au 0.023 ppm
Cu 894 ppm
Fe 8.62 %

M 88 BEDROCK
Au 0.031 ppm
Zn 84 ppm

M 91 SEDIMENT
Au 0.017 ppm
Cu 177 ppm
Zn 117 ppm

1400 1400 1300 1200 1100 1000 1025 1095 1207 1278 1200

MAMQUAM 5 CLAIM
ITEMIZED COST STATEMENT FOR 2007

SCHEDULE

FOOD COSTS/PERSON/DAY	$10.00
VEHICLE TO MAMQUAM	$60.00
VEHICLE TO VANCOUVER	$40.00
PROSPECTORS/DAY	$400.00

ROAD AND TRAIL CLEARING, PRO-RATED = 4.66 DAYS

PROSPECTORS	4.66 DAYS @ $400	$1864.00
VEHICLE	4.66 DAYS @ $60	$279.60
FOOD	4.66 DAYS @ $10	$46.66

PROSPECTING EXPENSES

PROSPECTORS	7.33 DAYS @ $400	$2932.00
VEHICLE	7.33 DAYS @ $60	$469.80
FOOD	7.33 DAYS @ $10	$73.33

OTHER EXPENSES

ANALYSES	1 @ $37.89	$37.89
	6 @ $30.17	$181.00
	1 @ $26.28	$26.28
	3 @ $32.33	$96.99
	3 @ $35.4	$106.20

SAMPLES TO ALS/CHEMEX-NORTH VANCOUVER

2 TRIPS PRO-RATED FOR THE NUMBER OF SAMPLES:

PROSPECTOR	0.35 DAYS @ $800	$280.00
VEHICLE	0.35 TRIPS @ $80	$28.00

TOTAL **$6421.75**

APPENDIX A

AUTHOR'S QUALIFICATIONS

K. R. MacKenzie, B.Sc., M.D.

Dr. MacKenzie is a retired physician who graduated from the University of British Columbia in 1963 with a B.Sc. in Chemistry and Mathematics. Geology 105 was taken as part of his undergraduate studies. He spent three summers working for the Geological Survey of Canada under Dr. J. O. Wheeler.
After graduating from U.B.C. in 1968 with a medical degree, Dr. MacKenzie has continued to prospect as a hobby.

Recent reading by the author includes:

The Rocks and Minerals of the World by C. Sorrell and G. Sandstrom.

Exploration and Mining Geology by William C. Peters.

Ore Deposits by C.F. Park, Jr. and R. A. MacDiarmid

A Field Guide to Rocks and Minerals by Pough

The Geochemistry of Gold and its Deposits by R. W. Boyle

Case Histories of Mineral Discoveries, Volume 3, Porphyry Copper, Molybdenum, and Gold Deposits, Volcanogenic Deposits (Massive Sulphides), and Deposits in Layered Rock by V. F. Hollister, Editor.

Porphyry Copper and Molybdenum Deposits West-Central B.C. by N.C. Carter.

Geology of the Porphyry Copper Deposits of the Western Hemisphere by Victor F. Hollister.

Atlas of Alteration by A.J.B. Thompson and J.F.H. Thompson, Editors.

ORE MINERAL ATLAS by Dan Marshall, C.D. Anglin and Hamid Mumin.

PORPHYRY DEPOSITS OF THE CANADIAN CORDILLERA
EDITOR: A. Sutherland Brown

THE GEOLOGY OF ORE DEPOSITS by John M. Guilbert and Charles F. Park, Jr.

GEOCHEMISTRY OF HYDROTHERMAL ORE DEPOSITS
by H. L. Barnes

APPENDIX B

ANALYSIS RESULTS FOR ALL SAMPLES

COLLECTED ON THE MAMQUAM

5 CLAIM IN 2007

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Finalized : 27-JUL-2007
This copy reported on 30-JUL-2007
Account: MACKEN

CERTIFICATE VA07071935

Project:

P.O. No.:

This report is for 9 Rock samples submitted to our lab in Vancouver, BC, Canada on 9-JUL-2007.

The following have access to data associated with this certificate:

KEN MACKENZIE

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

35

To: **MACKENZIE, KEN**
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Lawrence Ng, Laboratory Manager - Vancouver

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Finalized Date: 27-JUL-2007
Account: MACKEN

CERTIFICATE OF ANALYSIS VA07071935

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
M-65		0.68	0.008	<0.2	1.44	<2	<10	60	<0.5	<2	0.53	<0.5	8	8	75	2.90
M-66		0.66	<0.005	<0.2	0.31	<2	<10	30	<0.5	<2	0.11	<0.5	1	7	1	0.70
M-67		1.16	0.086	0.4	0.28	6	<10	10	<0.5	7	0.33	<0.5	381	2	21	21.9
M-68		0.76	0.005	<0.2	1.75	4	<10	130	<0.5	<2	0.60	<0.5	11	9	18	2.95
[redacted]																
M-76		0.80	0.020	0.9	1.53	4	<10	30	<0.5	<2	0.29	<0.5	21	9	15	4.30
M-77		0.64	0.007	0.4	1.35	<2	<10	30	<0.5	<2	1.91	<0.5	11	7	159	3.51

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Finalized Date: 27-JUL-2007
Account: MACKEN

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Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
M-65		<10	<1	0.34	<10	1.28	581	<1	0.02	7	700	8	<0.01	2	3	23
M-66		<10	<1	0.07	10	0.15	198	<1	0.02	<1	100	3	<0.01	<2	1	4
M-67		<10	<1	0.02	<10	0.06	46	<1	<0.01	13	180	7	>10.0	<2	1	61
M-68		<10	<1	0.53	10	1.40	480	1	0.05	8	600	5	0.09	<2	5	40
[redacted]																
M-76		10	<1	0.10	<10	1.41	698	14	0.04	6	710	20	2.38	<2	3	14
M-77		<10	<1	0.07	10	1.24	644	3	0.01	5	620	4	1.26	<2	6	23

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
M-65		<20	0.24	<10	<10	80	<10	66
M-66		<20	<0.01	<10	<10	3	<10	19
M-67		<20	0.02	<10	<10	16	280	2
[redacted]								
M-74		<20	0.13	<10	<10	58	<10	144
M-76		<20	0.05	<10	<10	70	<10	86
M-77		<20	0.01	<10	<10	57	<10	56

38.

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To: MACKENZIE, KEN
PO BOX 641
GARIBALDI HIGHLANDS BC V0N 1T0

Finalized: 27-JUL-2007
This copy reported on 30-JUL-2007
Account: MACKEN

CERTIFICATE VA07071934

Project:

P.O. No.:

This report is for 4 Sediment samples submitted to our lab in Vancouver, BC, Canada on 9-JUL-2007.

The following have access to data associated with this certificate:

KEN MACKENZIE		

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
PUL-31	Pulverize split to 85% <75 um
SPL-21	Split sample - riffle splitter

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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To: **MACKENZIE, KEN**
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Signature: Lawrence Ng

Lawrence Ng, Laboratory Manager - Vancouver

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Finalized Date: 27-JUL-2007
Account: MACKEN

CERTIFICATE OF ANALYSIS VA07071934

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
M-70		0.92	0.005	<0.2	1.40	<2	<10	70	<0.5	<2	0.27	<0.5	7	15	17	1.99
[redacted]																

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Finalized Date: 27-JUL-2007
Account: MACKEN

CERTIFICATE OF ANALYSIS VA07071934

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
M-70		<10	<1	0.06	<10	0.93	546	<1	0.02	7	540	4	<0.01	<2	2	23

[redacted]

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Finalized Date: 27-JUL-2007
Account: MACKEN

CERTIFICATE OF ANALYSIS VA07071934

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
M-70		<20	0.04	<10	<10	31	<10	69
[redacted]								

42.

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Finalized Date: 12-SEP-2007
This copy reported on 13-SEP-2007
Account: MACKEN

CERTIFICATE VA07089983

Project:

P.O. No.:

This report is for 3 Sediment samples submitted to our lab in Vancouver, BC, Canada on 14-AUG-2007.

The following have access to data associated with this certificate:

KEN MACKENZIE

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

43.

To: **MACKENZIE, KEN**
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Signature:

Lawrence Ng, Laboratory Manager - Vancouver

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Finalized Date: 12-SEP-2007
Account: MACKEN

CERTIFICATE OF ANALYSIS VA07089983

Sample Description	Method	WEI-21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOR	0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
M-78		0.86	<0.2	2.97	7	<10	90	<0.5	<2	0.64	<0.5	22	15	71	4.13	10

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**Finalized Date: 12-SEP-2007
Account: MACKEN**

CERTIFICATE OF ANALYSIS VA07089983

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20
M-78		<1	0.25	<10	1.74	1010	2	0.01	12	670	17	0.03	<2	4	45	<20

[redacted]

45.

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Finalized Date: 12-SEP-2007
Account: MACKEN

CERTIFICATE OF ANALYSIS VA07089983

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-AA23
	Analyte	Ti	Tl	U	V	W	Zn	Au
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.01	10	10	1	10	2	0.005
M-78		0.22	<10	<10	100	<10	185	0.014
[redacted]								

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Finalized : 27-NOV-2007
This copy reported on 30-NOV-2007
Account: MACKEN

CERTIFICATE VA07129863

Project: MAMQUAM

P.O. No.:

This report is for 12 Rock samples submitted to our lab in Vancouver, BC, Canada on 7-NOV-2007.

The following have access to data associated with this certificate:

KEN MACKENZIE		

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

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To: **MACKENZIE, KEN**
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Signature: Lawrence Ng

Lawrence Ng, Laboratory Manager - Vancouver

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Finalized Date: 27-NOV-2007
Account: MACKEN

Project: MAMQUAM

CERTIFICATE OF ANALYSIS VA07129863

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
[redacted]																
M-87		0.62	0.005	<0.2	1.77	3	<10	40	<0.5	2	0.37	<0.5	11	10	49	3.97
M-88		0.56	0.031	0.5	1.99	5	<10	60	<0.5	3	0.47	<0.5	19	9	45	3.97
M-89		0.70	0.023	0.8	0.34	<2	<10	40	<0.5	2	0.10	<0.5	22	2	894	8.62
[redacted]																

'87

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Finalized Date: 27-NOV-2007
Account: MACKEN

Project: MAMQUAM

CERTIFICATE OF ANALYSIS VA07129863

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
[redacted]																
M-87		10	1	0.24	10	1.37	787	4	0.07	21	760	8	2.15	<2	4	26
M-88		10	<1	0.58	10	1.46	718	1	0.10	18	720	15	2.07	<2	3	24
M-89		<10	<1	0.17	<10	0.12	55	9	0.02	9	390	12	9.97	<2	<1	5
[redacted]																

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Finalized Date: 27-NOV-2007
Account: MACKEN

Project: MAMQUAM

CERTIFICATE OF ANALYSIS VA07129863

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
[redacted]								
M-87		<20	0.15	<10	<10	59	<10	99
M-88		<20	0.17	<10	<10	79	<10	84
M-89		<20	<0.01	<10	<10	5	<10	8
[redacted]								

25

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Finalized : 27-NOV-2007
This copy reported on 30-NOV-2007
Account: MACKEN

CERTIFICATE VA07129864

Project: MAMQUAM

P.O. No.:

This report is for 5 Sediment samples submitted to our lab in Vancouver, BC, Canada on 7-NOV-2007.

The following have access to data associated with this certificate:

KEN MACKENZIE

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-32	Pulverize 1000g to 85% < 75 um
LOG-22	Sample login - Rcd w/o BarCode
BAG-01	Bulk Master for Storage

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **MACKENZIE, KEN**
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Signature:

Lawrence Ng, Laboratory Manager - Vancouver

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Finalized Date: 27-NOV-2007
Account: MACKEN

Project: MAMQUAM

CERTIFICATE OF ANALYSIS VA07129864

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
M-90		0.34	0.016	0.3	1.51	3	<10	90	<0.5	<2	0.16	0.7	10	6	65	2.66
M-91		0.50	0.017	0.4	1.69	3	<10	70	<0.5	<2	0.20	<0.5	9	6	177	2.66
M-92		0.46	<0.005	<0.2	1.40	4	<10	60	<0.5	2	0.52	<0.5	9	8	29	2.33

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Finalized Date: 27-NOV-2007
Account: MACKEN

Project: MAMQUAM

CERTIFICATE OF ANALYSIS VA07129864

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
M-90		<10	1	0.20	10	0.82	873	2	0.03	6	550	25	0.11	<2	3	9
M-91		10	<1	0.21	<10	0.95	792	4	0.04	6	510	12	0.10	<2	3	17
M-92		10	<1	0.24	<10	0.85	387	1	0.09	5	490	5	0.01	<2	3	42

[redacted]

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Finalized Date: 27-NOV-2007
Account: MACKEN

Project: MAMQUAM

CERTIFICATE OF ANALYSIS VA07129864

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
M-90		<20	0.01	<10	<10	32	<10	150
M-91		<20	0.02	<10	<10	38	<10	117
M-92		<20	0.14	<10	<10	62	<10	48
[redacted]								

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