GEOCHEMICAL SAMPLING REPORT

on the

INGENIKA PROPERTY

DEL 1-3 Mineral Claims

Omineca Mining Division

NTS: 94C/11E

B.C. Geographic System Map Sheet: 094C.065

Latitude: 56° 41' N; Longitude 125° 10' W

UTM: 6 284 000 N; 368 000 E; Zone 10

Owner and Operator: Cross Lake Minerals Ltd.

Author: Jim Miller-Tait, P.Geo.

December 2, 2001

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SECTION A: REPORT

INTRODUCTION:

Cross Lake Minerals Ltd. owns 100% interest in the Ingenika Property (DEL 1-3 mineral claims). This report documents four phases of exploration completed from late May to October 2001. The first phase of fieldwork from May 22 to 26, 2001 consisted of one soil sample line, with two samples collected at each site, comparing conventional soil sampling and analyses with Mobile Metal Ions (MMI) sample collection and analyses. The test soil sample line was centered over the known Onward South shaft and trenches of known zinc-lead-silver mineralization on the Del 3 mineral claim. The comparison of the results of the conventional versus the MMI soil results concluded that the MMI soil results outlined the mineralization more accurately. Therefore, the second phase of field exploration from June 23 to June 28, 2001 consisted of a detailed MMI soil sample grid to trace the strike extension of the known Onward South showing and to explore for new unknown mineralization. Once the results of the phase two soil sampling results were interpreted it was noticed that there was a strong base metal anomaly on the southwestern edge of the survey area. Therefore, in August 2001, a phase three program of sampling a mini-grid to expand the base metal anomaly on the southwestern edge of the survey was completed. These soil samples were highly anomalous in base metals so during the period of October 15-17, 2001 a fourth soil sampling program in this area was completed.

PROPERTY:

The Ingenika Property is comprised of 3 contiguous mineral claims totalling 54 claim units and covering 1,300 hectares, all being in the Omineca Mining Division. The claims were staked in

July, 2000 and are held by Cross Lake Minerals Ltd. A complete list of the mineral claims that comprise the Property is set out in Section B of this report.

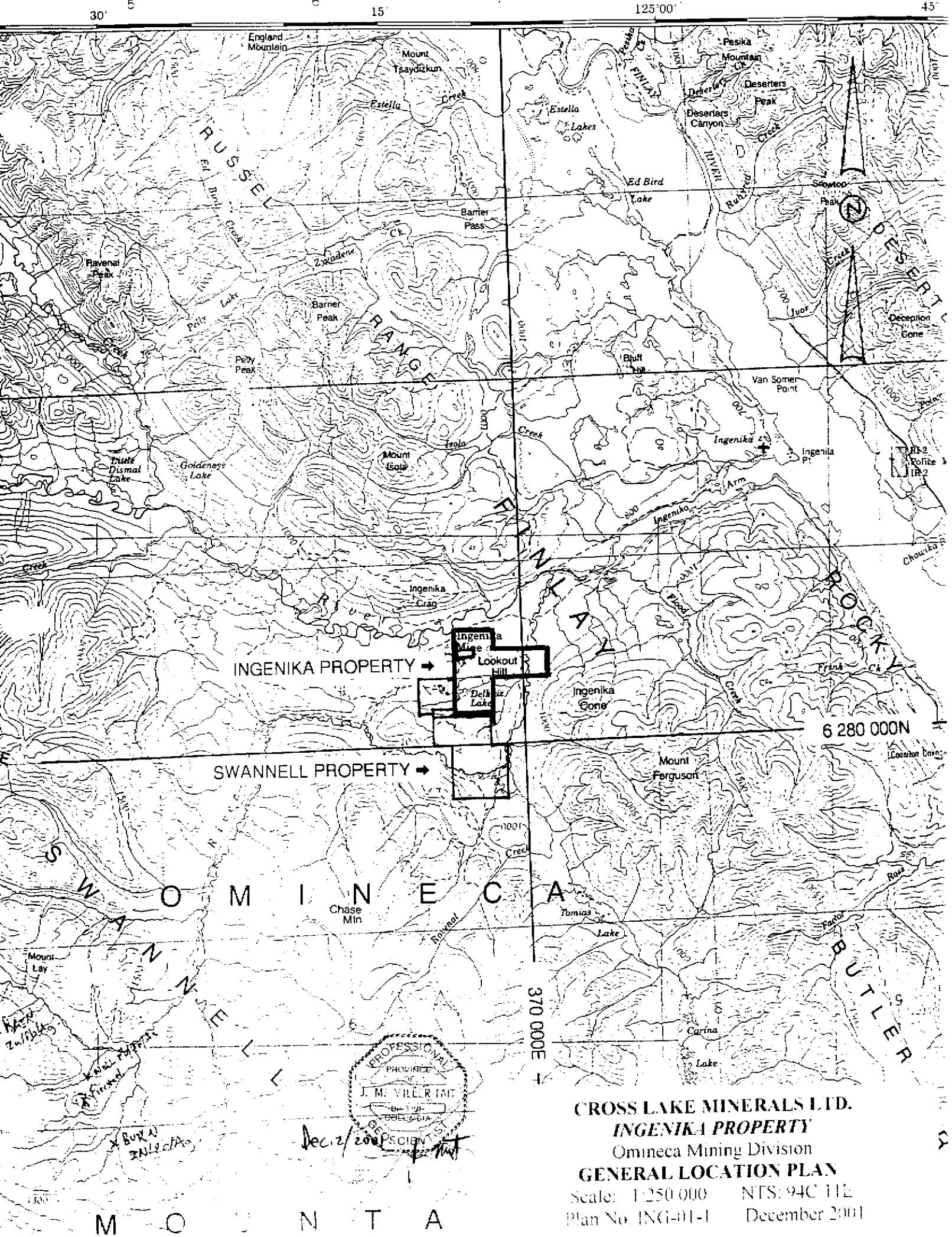
LOCATION AND ACCESS:

The Ingenika Property is located in the Swannell Ranges of the Omineca Mountains in the Omineca Mining Division some 103 kilometres north-northwest of Germansen Landing. The claims are situated on NTS map sheet 94C/11E and B.C. Geographic System map sheet 094C.065. Geographic coordinates are Latitude 56° 41' N; Longitude 125° 10' W and the UTM coordinates are 6 284 000 N and 368 000 E in Zone 10.

There is excellent access to the property as a result of intense logging activity in the area. Access to the property is gained by driving 216 kilometres north from Mackenzie along the west side of Williston Lake on a main logging haulage road, then west for 18 kilometres, south for 10 kilometres and west for 3 kilometres to Delkluz Lake. Secondary logging roads are used to access the claims. Care must be taken on some of the secondary logging access roads because they cannot be driven by four-wheel drive vehicles as a result of the roads being deactivated by the logging contractor.

CLIMATE, TOPOGRAPHY AND VEGETATION:

The Ingenika area has cold, medium snowfall winters and warm, dry summers. The topography of the claims is relatively flat with low rolling hills that are heavily timbered by pine and spruce. In the clear cuts deciduous willows and poplars predominate.



PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
J. M. VILLENEUVE
Dec. 2/2001

CROSS LAKE MINERALS LTD.

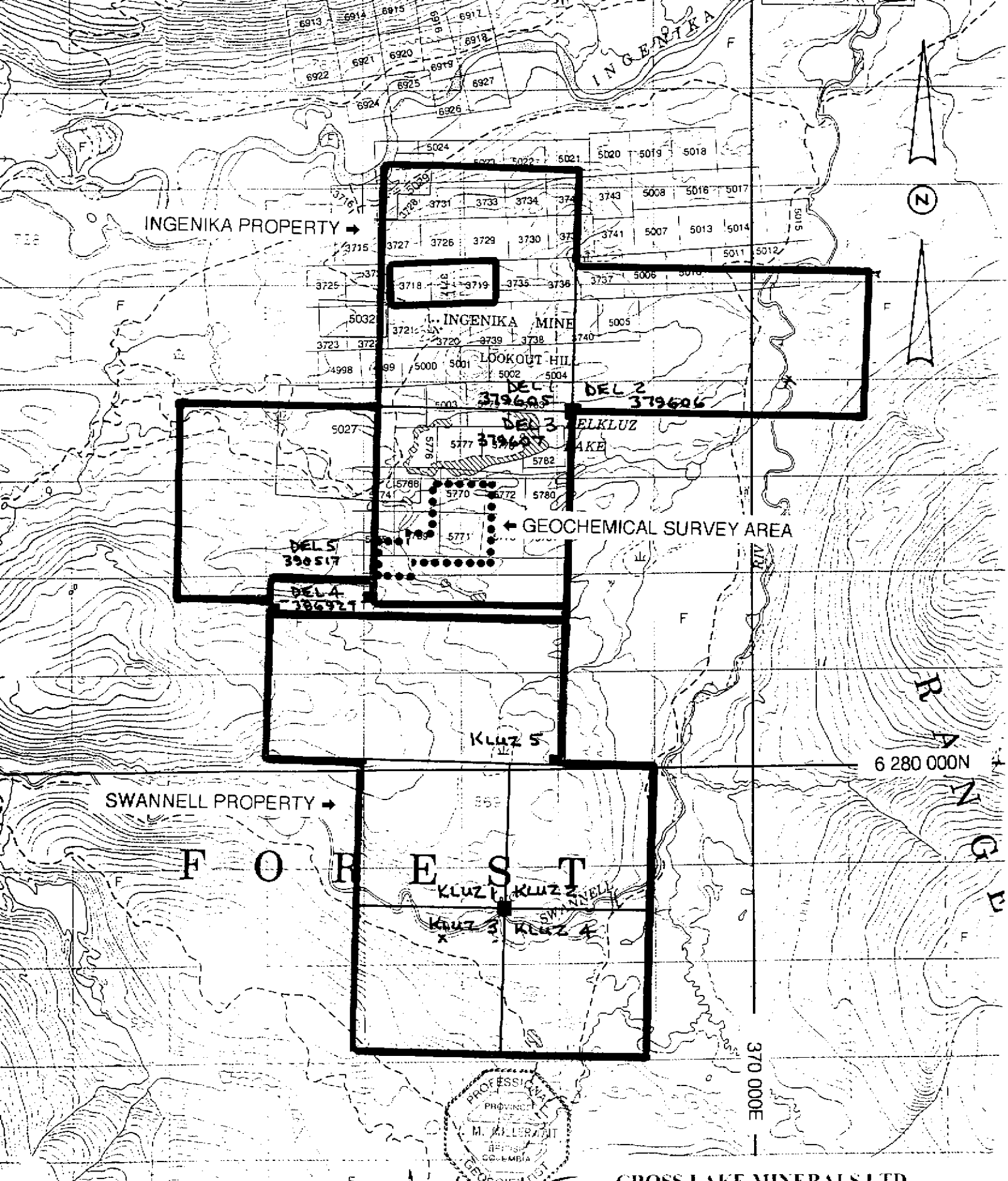
INGENIKA PROPERTY

Omineca Mining Division

GENERAL LOCATION PLAN

Scale: 1:250 000 NTS: 94C 11E

Plan No. ING-01-1 December 2001



PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
M. MILLBRANDT
GEOSCIENTIST

Dec 2/2001

CROSS LAKE MINERALS LTD.

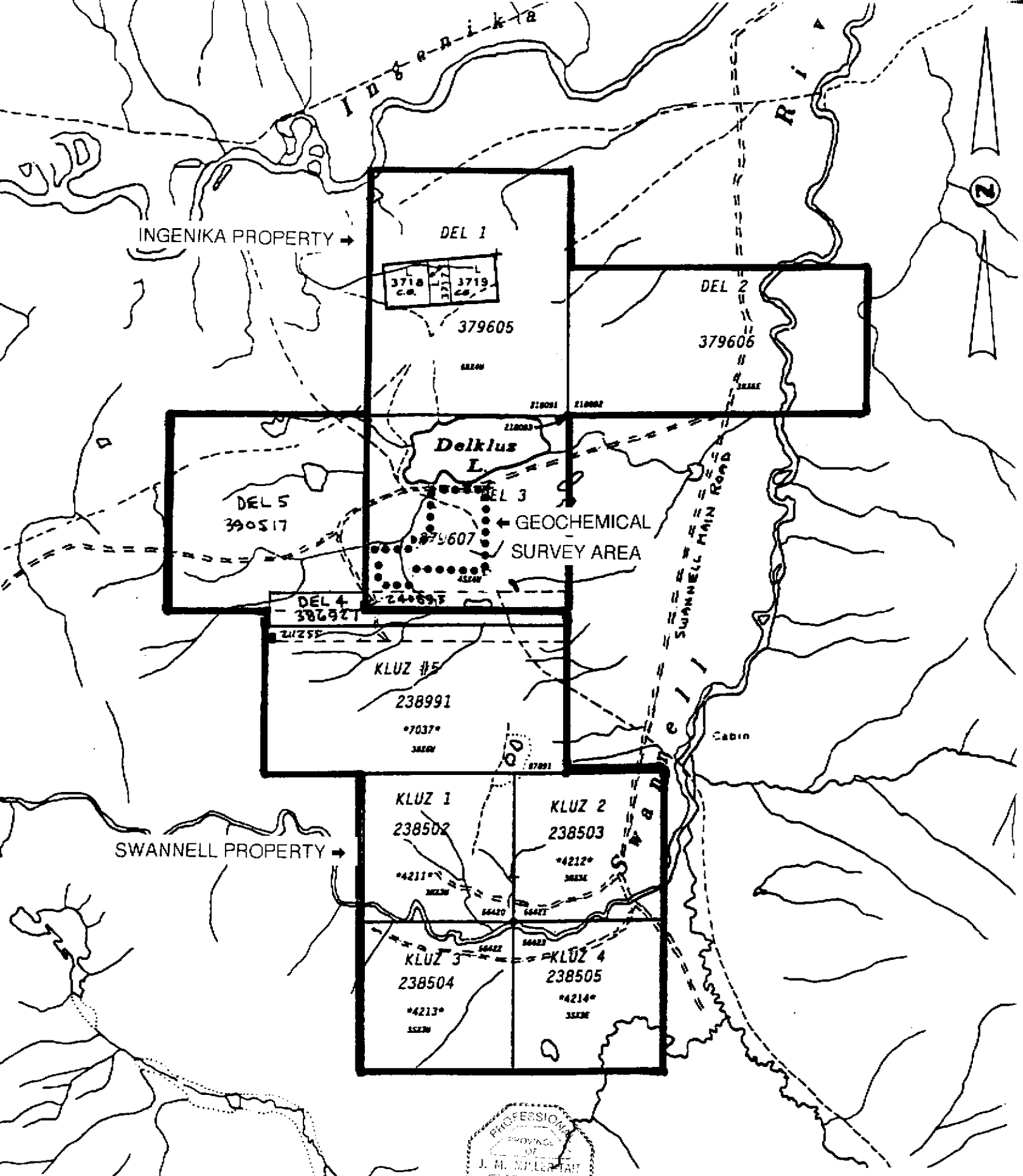
INGENIKA PROPERTY

Omineca Mining Division

LOCATION PLAN

Scale: 1:50 000 NTS: 94C 11E

Plan No. ING-01-2 December 2001



PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
J. M. MILLER-TAIT
GEOSCIENTIST

Dec. 2/2001

CROSS LAKE MINERALS LTD.

INGENIKA PROPERTY

Omineca Mining Division

MINERAL CLAIMS

Scale: 1:50 000 NTS: 94C.11E

Plan No. ING-01-3 December 2001

HISTORY:

The original claims in the Ingenika area were staked in 1917 by S. Ferguson to cover the oxidized limestone hill, named Ferguson Hill. The oxidized limestone hill, located on the south bank of the Ingenika River, contains stratabound zinc, lead and silver sulphide mineralization consisting of sphalerite, galena and pyrite. The mineralization ranges from 1 to 3 metre thickness and strikes 100 degrees and dips north from 20 to 40 degrees.

In 1926 these claims were acquired by the Selkirk Mining Syndicate of Victoria.

In 1927 Ingenika Mines Ltd. was formed and completed the existing historic underground development of drifting, crosscutting and raising from 1927 to 1932. There was also extensive trenching completed and some diamond drilling. The assessment report database has very limited information because the Ingenika Mine was covered by crown granted mineral claims and therefore assessment reports were not required.

The work completed from 1927 to 1932 was summarized in the Geological Survey of Canada, Memoir 274, by E.F. Roots. The underground development explored four base metal zones from four levels, the 1, 2, 4 and 5 levels. Ore was encountered in all levels except for the lowest level, 5-level, which is postulated as being driven too low in stratigraphy.

During the summers of 1956 and 1957 Consolidated Mining and Smelting Ltd. conducted geophysical and geological work in and around the Ingenika Mine, Onward, Onward South and Swannell showings. This work was followed by 3,602 metres of AQ core size diamond drilling.

Dorita Silver Mines acquired the Ingenika Property in 1969 and completed surface and underground mapping and diamond drilled 550 metres in 21 drill holes. Dorita Silver Mines estimated the Ingenika Mine reserve at 22,677 tonnes grading 119.9g/t silver, 9.8% lead and 6.1% zinc.

International Impala Resources acquired the Ingenika property in 1991 and completed 24 kilometres of VLF and magnetometer surveying, 7 kilometres of I.P. surveying, collected 490 soil geochemical samples and 14 rock samples. The company concluded that drilling east of the No.5 level workings would intersect the ore if it rakes northeast.

REGIONAL GEOLOGY:

The Ingenika area was mapped by Roots, whose work is documented in Geological Survey of Canada, Memoir 274, and published in 1954. There is no detailed stratigraphic correlation or fossil dates available from the rocks in the area of the Ingenika Property. The present interpretation of the rocks underlying the Ingenika area, in the vicinity of the claims, are correlated with the Upper Cambrian – Lower Ordovician Kechika Group which lies unconformably on Upper Proterozoic rocks of the Ingenika Group, correlated with the Windermere Supergroup.

The rock units underlying the Ingenika claims can be subdivided into the Ingenika and Kechika Groups. The lowest stratigraphic unit is sandstone and grit belonging to the Upper Proterozoic Ingenika Group. The carbonate bearing strata of the Kechika Group overlies it and forms the core of a broad northerly plunging syncline, mapped by the G.S.C. The Kechika Group rocks disappear 3 kilometres south of the Swannell River because the syncline intersects the surface here.

PROPERTY GEOLOGY:

The Ingenika area was mapped by E.F. Roots, whose work is documented in Geological Survey of Canada, Memoir 274, and published in 1954. The lowermost unit consists of the Upper

Proterozoic Ingenika Group, exposed by the Swannell River, consists of brown siltstone with several thin coarse sandstone and quartzite beds and schist. A 5-20 metre thick impure limestone bed caps the brown siltstone and underlies a group of distinctly carbonaceous siltstone, which is approximately 50 metres thick. The carbonaceous siltstone unit becomes less carbonaceous and distinctly carbonate-rich up-section where it is interbedded with limestone-dolomite beds of the Upper-Cambrian-Lower Ordovician Kechika Group. This carbonate-rich section hosts the mineralization, strikes at 100 degrees and dips 20 to 40 degrees north. This section is a mixture of coarse to fine clastic rocks with layers and beds of pure crystalline to impure silty limestone a few metres to 60 metres thick with an overall unit thickness of 80 metres. The mineralized sequence is overlain by a fine to coarse clastic sequence, which shows a gradational contact from limy siltstone to sandstone, grit and sericite phyllite.

The important showings, that were also mapped by Roots, consist of the Ingenika, Onward, Onward South and Burden. The Ingenika showing is not held by Cross Lake but is on three crown granted mineral claims surrounded by Cross Lake's claims and it is important to describe in order to provide a comparison with the other showings and the interpretation of the soil sampling anomalies.

The Ingenika showing has been extensively explored by soil and geophysical surveying (VLF, magnetometer, and I.P.), geological mapping on surface and underground, trenching, diamond drilling and underground drifting, crosscutting and raises from four levels. Most of the work is confined on Ferguson Hill where the base metal mineralization is exposed. The mineralization is confined to the cream colored crystalline limestone of the Ingenika Group of Lower Cambrian age. The mineralization, 1 to 3 metres in thickness, consists of four parallel zones that are controlled by bedding. The bedding and mineralization strikes at 100 degrees and dips from 20

to 40 degrees north. The mineralization replaces limestone-quartz-siderite host and consists of pyrite, galena and sphalerite with lessor amounts of copper and silver sulphides. The upper three levels of underground development, the 1, 2 and 4-levels, intersected strong mineralization in the limestone host. However, the lowest level, 5-level, was driven through the limestone host and intersected schist where the mineralization was projected to from the upper levels.

The Onward and Onward South mineralization are in the same Lower Cambrian limestone host as the Ingenika mineralization and consist of galena, sphalerite and pyrite but differ in that they appear to cross-cut the limestone. At the Onward showing, on the south side of Delkutz Lake, the mineralization exposed by trenching is a siderite, quartz flooded brecciated vein system with galena, pyrite and sphalerite mineralization. The vein system strikes at 010° and dips vertical.

At the Onward South trenches and old shaft, located 500 metres south of the Onward showing, Roots described the mineralization as consisting of sphalerite, galena and pyrite cross-cutting the stratigraphy and confined to a brecciated vein system. The mineralization is not exposed in place because the trenches and shaft are now filled with slumping overburden but rock samples collected from the dumps confirm the mineralization. Rock samples were collected from the Onward and Onward South showing and are described in the following section "Rock Sampling Results".

The Burden showing was not examine by the author but the following description is compiled from Roots G.S.C. Memoir 274. The Burden showing is located on the east side of the Swannell River, eight kilometres above its confluence with the Ingenika River. The Swannell River has exposed several irregular masses of white vein quartz in highly calcareous talc-sericite schist of the Ingenika Group. The quartz is cut by stringers of cream-colored crystalline calcite, and contains blebs and stringers of pyrite and chalcopyrite. About 30 metres downstream from the

main quartz occurrence is a rounded massive sulphide boulder 0.6 x 0.6 x 1.2 metres in size comprised of massive, fine-grained pyrite, chalcopyrite, covellite and bornite.

ROCK SAMPLING RESULTS:

Rock sampling was initially carried out on the Onward and Onward South showings in July 2000 during the staking of the DEL 1-3 mineral claims and prior to any soil sampling program. The reason for this rock sampling was to examine the mineralization and structures so that a soil sample grid could be orientated to cover the trend of the mineralization in an optimum direction. All of the showings and sampling were of zinc, lead and silver mineralization consisting of sphalerite, galena and pyrite hosted in limestone. The limestone had been brecciated and flooded with quartz/calcite veinlets with siderite. Twelve samples were taken in July 2000 and analysed at ALS Chemex in North Vancouver and a further three samples were collected in May 2001 and analysed at the Cominco Exploration Research Laboratory. The following table summarizes the results and the laboratory reports are appended in Section D.

2000 SAMPLING				
SAMPLE NUMBER	**DESCRIPTION**	**Ag (PPM)**	**Pb (PPM or %)**	**Zn (PPM or %)**
Onward showing:				
M674626	Grab of W dump in lake. Py, Sph? In lmst.	4.6	640	132
M674627	Grab of 50cm trench boulders. Mass gal in lmst.	1205	*51.8%*	540
M674628	Grab of 50cm trench boulders. Mass gal in lmst.	1070	*45.2%*	114
M674629	Grab of 50cm trench boulders. Mass gal in lmst.	121	*8.11%*	80
M674630	Grab of 50cm trench boulders. Mass gal in lmst.	135	*8.35%*	74
M674631	Qtz vein flat 10 m west of adit lying in lmst. Minor py, mala.	4.8	470	38
M674632	Grab of siderite in lmst near trenches.	10.2	7550	42
M203401	Galena + Cpy (qtz stringers) in Lmst.	1870	*64.2%*	304
M203402	Galena + Cpy (qtz stringers) in Lmst.	272	*13.95%*	112
Onward South Trench showing:				
M674640	Sphalerite, minor galena in Lmst. Old Trenches.	7.2	4960	*2.65%*
M674641	Sphalerite, galena in Lmst. In old trenches.	55.6	*5.86%*	*13.05%*
M674642	Sphalerite, galena in Lmst. In old trenches.	45.6	*5.07%*	*15.7%*

SAMPLE NUMBER	DESCRIPTION	Ag (PPM)	Pb (%)	Zn (%)
2001 SAMPLING				
Onward South Shaft showing:				
I-1	Grab of 30cm linst. sphalerite, galena approx. 40%.	139.8	*16.28%*	*25.62%*
I-2	Grab of 40cm linst. sphalerite, galena approx. 30%.	8.4	*0.59%*	*31.07%*
I-3	Grab of 30cm linst. sphalerite, galena approx. 50%.	81.4	*8.77%*	*33.61%*

SOIL GEOCHEMICAL SAMPLING RESULTS:

The first phase of soil sampling was designed to test the effectiveness of conventional soil sampling of the B-horizon compared with the Mobile Metal Ions (MMI) sampling method and analyses. Previous operators have documented poor results using conventional soil geochemistry to trace the mineralization probably due to the fact that the area is extensively covered by heavy mantling of the bedrock by glacial till and outwash gravels with a poorly developed B-horizon. The first phase consisted of centering a soil sample line, L3S, across the Onward South shaft where the known zinc, lead and silver mineralization is present. The line was sampled at 25 metre intervals for 250 metres east and 250 metres west for a total of 21 conventional and 21 MMI soil samples. The line was orientated at a bearing of 090° because the Onward showing mineralization strikes 010° and east-west lines would give optimum exposure at right angles to the mineralization.

The conventional soil sample was collected from the B-horizon using a shovel at an average depth of approximately 20 to 30 centimetres and the sample placed in standard paper Kraft soil sample bags and sent to ALS Chemex in North Vancouver, B.C. for analyses by ICP analytical method. The MMI soil samples were collected at a standard depth, regardless of soil horizon, of 10 centimetres by using a shovel and placed in a plastic sample bag and sent to XRAL Laboratories for analyses. The analytical procedures for the conventional soil sample by ALS Chemex and the MMI method used by XRAL Laboratories are appended in Section D.

The results are plotted on the Plan Numbers ING-01-4 to ING-01-7 and the values for the MMI samples are expressed as Response Ratio Numbers. This is a calculation recommended by XRAL Laboratories for interpretation purposes. The Response Ratio is calculated by dividing the actual assay value (ppb) by the average assay value (ppb) of the lowest twenty-five percentile of all the samples collected. A table of assay values and calculated response ratios are appended in Section E.

The soil sample results of the conventional and MMI samples collected from the line centered over the known mineralization was compared and it was concluded that MMI samples outlined the mineralization more accurately than the conventional soil samples (see Plan Numbers ING-01-4 to ING-01-7 for results).

As a result of the MMI soil sampling over the known mineralization, a second phase of detailed grid soil sampling was undertaken from the Onward showing on the north end of the grid, south over the Onward South showing, and another 500 metres south to test a large area where there is no bedrock exposure. A total of 249 MMI soil samples were collected in this second phase of exploration. The baseline was flagged, cleared and soil sampled at 25 metre intervals at a bearing of 180°. The cross lines were flagged and sampled at 25 metre intervals at a bearing of 090°. These line directions were selected after a detailed examination of the base metal showings at the Onward showing on the south side of Delkluz Lake.

The MMI soil sample results of zinc, copper, lead and cadmium outlined the Onward and Onward South showings and several other highly anomalous areas. The Onward showing is anomalous in lead, cadmium and copper which is expected because the assays of the rock samples from the trenches were very high in lead and silver with low values in zinc. The Onward South showing was outlined as highly anomalous in zinc, lead and minor copper and the

strike extension from the showing is anomalous from station L2S; 150W southeast for 450 metres to station L5S; 125E. A second anomalous area in zinc and lead was outlined 200 metres southwest of the Onward South showing from station L4S; 250W, 550 metres southeast, to station L7S; 100E. The most important anomalous area in zinc, lead and minor cadmium was initially outlined in this phase of MMI soil sampling on L8W from station 500W to the end of the line at station 650W. This area is located at the extreme southwest corner of the survey grid. The third and fourth phases of MMI soil sampling were completed in this area in the extreme southwest corner of the survey grid because the second phase zinc-lead-cadmium anomaly was not closed off. This phase of MMI soil sampling consisted of extending lines 6S, 7S and 8S and sampling new lines 6.5S, 7.5S, 8.5S, 9S and 9.5S, spaced at 50 metre intervals, all in a westerly direction. There were a total of 91 soil samples collected in these two phases of soil sampling. This additional sampling outlines a new highly anomalous area in zinc, lead and cadmium from station L6.5S; 900W, 500 metres southeast to station L8.5S; 550W. Several of the samples collected in this area have higher values in zinc, lead and cadmium than where the survey covered the known high grade bed rock mineralization at the Onward and Onward South showing. This 500 metre long, highly anomalous soil area is still open to the northwest and southeast.

The three main base metal anomalies all strike between 120 and 130 degrees. This is very important because this is very similar to the strike direction of the Ingenika Mine mineralization, located 2.5 kilometres north of the survey area.

CONCLUSIONS:

The original claims in the Ingenika area were staked in 1917 by S. Ferguson to cover the oxidized limestone hill subsequently named Ferguson Hill. The oxidized limestone hill, located on the south bank of the Ingenika River, contains stratabound zinc, lead and silver sulphide mineralization consisting of sphalerite, galena and pyrite. The mineralization ranges from 1 to 3 metres in thickness and strikes 100 degrees and dips north from 20 to 40 degrees. The Ingenika Property, 100% owned by Cross Lake Minerals Ltd., surrounds the three crown granted claims of the Ingenika Mine and covers two base metal showings named the Onward and Onward South. The two showings contain significant values in zinc, lead and silver.

The experimental test work of comparing conventional versus Mobile Metal Ions (MMI) soil sampling and analyses proved that the MMI method outlined the known mineralization more effectively than conventional soil sampling. Based on this favourable comparison a survey area was selected to cover the known showings and a 500 x 800 metre area south of the known areas of mineralization where there is no bedrock exposure.

The MMI soil sampling survey was successful in outlining the known mineralization and extending the anomalous area along strike. Most importantly the survey discovered two new high priority soil anomalies located southwest of the known mineralization. The most important soil geochemical anomaly is located in the southwestern area of the grid and is still open along strike. This 500 metre anomalous area has higher values in the soil than where the survey covered the known high grade mineralization.

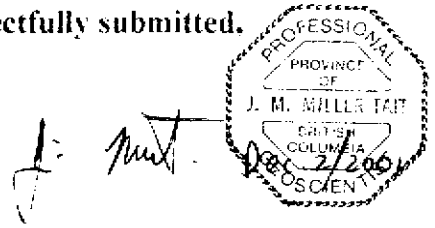
Also observed in this area where the logging contractors have constructed roads is angular manganese stained limestone float with semi-massive pyrite. This material is very similar to the Ingenika Mine host rock, located 2.5 kilometres north of the survey area. All of the soil

anomalies have a similar strike direction as the mineralization at the Ingenika Mine. More exploration work is recommended to explore the highly prospective Ingenika Property.

RECOMMENDATIONS:

The next phase of exploration on the Ingenika Property should consist of expanding the existing Mobile Metal Ions survey area along strike of the large high priority base metal anomaly located in the southwest area of the existing survey grid. Once this area has been geologically mapped, soil sampled and interpreted a second phase consisting of trenching and diamond drilling should be completed to identify the source of the base metal soil anomaly.

Respectfully submitted.



Jim Miller-Tait, P.Geo.

LIST OF REFERENCES:

J. Chapman, T. Lewis, Jan.10, 1991. Geological, Geophysical and Geochemical Report on the Ferguson Project for International Impala Resources Ltd.

Gabrielse, H., Unpublished GSC Map of the Mesilinka Map Area, 94C.

Mawer, A.B., 1982. Cominco Year End Report on the Swannell Group.

Mawer, A.B., 1986. Cominco Year End Report on the Swannell Group.

Mansy, J.L. and Gabrielse, 1978. Stratigraphic Terminology and Correlation of Upper Proterozoic Rocks in Omineca and Cassiar Mountains, North-Central B.C., GSC Paper 77-19.

Roots, E.F., 1954. Geology and Mineral Deposits of the Aiken Lake Map Area, B.C., GSC Memoir 274.

STATEMENT OF QUALIFICATIONS:

For: Jim Miller-Tait of 828 Whitchurch Street, North Vancouver, B.C. V7L 2A4

I graduated from the University of British Columbia with a Bachelor of Sciences Degree in Geology (1987);

I have been practicing my profession as a geologist in mineral exploration and mining continuously since 1987;

I am a fellow in good standing with the Geological Association of Canada;

I am a registered member in good standing as a Professional Geoscientist with the Association of Professional Engineers and Geoscientists of British Columbia;

The observations, conclusions and recommendations contained in the report are based on field examinations, personal sampling, and the evaluation of results of the exploration programs completed by the operator and agreement holder of the property.

Dec. 2/2001

Jim Miller-Tait, P.Geo.

SECTION B: PROPERTY

INGENIKA /SWANNELL	*SCHEDULE OF MINERAL CLAIMS*		
PROVINCE: British Columbia	**CLAIMS: 10**	**UNITS: 130**	**AREA: 3250 ha**
MINING DIVISION: Omineca	**NTS: 94C/11E**		**BCGS: 094C.065**
LOCATION: near the Ingenika Mine and Delkluz Lake some 250 km north-northeast of Smithers and 108 km north-northwest of Germansen Landing	**LATITUDE: 56° 39'**		**LONGITUDE: 125° 10'**
	UTM: ZONE 10	**6 282 000N**	**367 000E**
MAP SHEET (1:250 000): 94C - Mesilinka River (1:50 000): 94C/11 - Ingenika Mine	**PROPERTY INTERESTS: Ingenika: Cross Lake Minerals Ltd. - 100% Swannell: Cominco Ltd. - 100%. Option Agreement with Cominco Ltd. dated April 24, 2001 whereby Cross Lake may earn a 100% interest subject to a 2% Net Smelter Return Royalty.**		

CLAIM NAME	RECORD NUMBER	UNITS	RECORD DATE (yyyy-mm-dd)	DUE DATE (yyyy-mm-dd)	ANNUAL WORK REQUIRED	RECORDED HOLDER
INGENIKA PROPERTY:						
DEL 1	379605	20	2000-07-29	2002-07-29	2000.00	Cross Lake Minerals Ltd.
DEL 2	379606	18	2000-07-29	2002-07-29	1800.00	Cross Lake Minerals Ltd.
DEL 3	379607	16	2000-07-28	2002-07-28	1600.00	Cross Lake Minerals Ltd.
		54			5400.00	
SWANNELL PROPERTY:						
KLUZ 1	238502	09	1981-09-09	2005-09-09	1800.00	Cominco Mining Worldwide Holdings Ltd.
KLUZ 2	238503	09	1981-09-09	2005-09-09	1800.00	"
KLUZ 3	238504	09	1981-09-09	2005-09-09	1800.00	"
KLUZ 4	238505	09	1981-09-09	2005-09-09	1800.00	"
KLUZ 5	238991	18	1985-05-29	2005-05-29	3600.00	"
DEL 4	386927	06	2001-05-23	2005-05-23	1200.00	Cross Lake Minerals Ltd.
DEL 5	390517	16	2001-10-16	2002-10-16	1600.00	Cross Lake Minerals Ltd.
		76			13600.00	
		130			**$19000.00**	

ASSESSMENT WORK SUMMARY

Date of Filing (yyyy-mm-dd)	Work Filed $	New Work Applied $	Banked Credits Applied	Banked Credits Saved	Total Banked Credits	Date of Approval (yyyy-mm-dd)	Event Number
2001-01-24	5400.00	5400.00	0	0	0	2001-01-24	3159810
2001-05-28	4060.00	3600.00	0	0	0		3165802
2001-08-24	Notice to Group		0	0	0		3172061
2001-08-24	19060.50	18600.00	0	460.50	0		3170262
2001-09-07	34070.00	22800.00	0	0	0		3170821

SECTION C: EXPENDITURES

Item	Work Performed	Quantities / Rates	Amount
Project Geologist: J. Miller-Tait, P.Geo.	Project supervision, soil sampling and mapping.		
	Period: May 17-28, 2001	4 days @ $350.00	$1400.00
	June 23-July 4, 2001	3 days @ $350.00	1050.00
	Aug 26, 2001	1 day @ $350.00	350.00
	Oct 15-17, 2001	3 days @ $350.00	1050.00
			3850.00
Field Geologist: C. Church	Soil sampling and geological mapping		
	Period: May 17-28, 2001	4 days @ $267.50	1070.00
	June 23-July 4, 2001	3 days @ $267.50	802.50
			1872.50
Consulting Geologist: T.W. Muraro, P.Geo.	Property visit and review of work program	1 day @ $535.00	535.00
Field Assistants:	Line cutting and MMI soil sampling.		
F. Tait	Period: June 23 to July 4, 2001	3 days @ $250.00	750.00
	Oct 15-17, 2001	3 days @ $250.00	750.00
M. Russell	June 23 to July 4, 2001	3 days @ $200.00	600.00
T. Klaussen	June 23 to July 4, 2001	3 days @ $150.00	450.00
			2550.00
Transportation: Vancouver to property, onsite and return	4x4 pickup trucks: Units		
	Period: May 17-28, 2001 (2)	8 days @ $105.00	840.00
	Jun 23-Jul 4, 2001 (2)	6 days @ $105.00	630.00
	Aug 26, 2001 (1)	1 day @ $105.00	105.00
	Oct 15-17, 2001 (1)	3 days @ $105.00	315.00
			1890.00
Accommodation and Meals	Period:	Man days @ $35.00	
	May 17-28, 2001	8	280.00
	June 23-July 4, 2001	15	525.00
	Aug 26, 2001	1	35.00
	Oct 15-17, 2001	6	210.00
			1050.00
Field Supplies	Camp materials and sampling supplies for the period:		
	May 17-28, 2001		120.27
	June 23-July 4, 2001		247.98
	Aug 26, 2001		-
	Oct 15-17, 2001		7.78
			376.03

Item	Work Performed	Quantities / Rates	Amount
Freight: Vancouver to XRAL Labs in Don Mills, Ontario	Sample shipments: Greyhound Courier Express	Jun 15, Sep 09, Oct 24 2001	103.45
	Reimer Express Lines Ltd.	Jul 04 2001	82.10
			185.55
Analytical Services:			
ALS Chemex Labs	ICP-AES 32 element analyses	21 @ $8.335	175.04
Cominco Lab	Assaying and rock polishing	3 @ $37.45	112.35
XRAL Labs	MMI Base Metal Suite-A analyses	361 @ $23.00	8303.00
			8590.39
Report Preparation:	J. Miller-Tait, P.Geo.	4 days @ $350.00	1400.00
Data Plotting, Analysis and Map Preparation	Ron Simpson, P.Geo., Geosim Services Inc.	6.3 hours @ $58.85	370.76
Total			**$22670.23**
Expenditures: May 17 to July 28, 2001			**$15893.64**
Expenditures: July 29 to November 25, 2001			**$6776.59**

Expenditure Apportionment:

Claim	Samples	% of Total	Prorated Expenditure
DEL 1	-	-	-
DEL 2	-	-	-
DEL 3	385	100	**$22670.23**
Total	**385**	**100**	**$22670.23**

SECTION D: ANALYTICAL RESULTS

1. Analyses carried out by ALS Chemex Labs of North Vancouver, B.C.

- Certificate of Analysis A0025580 dated August 17,2000
- Certificate of Analysis A0025582 dated August 18,2000
- Certificate of Analysis A0026464 dated August 21,2000
- Certificate of Analysis A0026564 dated August 23, 2000
- Certificate of Analysis A0117685 dated June 7, 2001
- Statement of Analytical Procedures

2. Analyses carried out by Cominco Exploration Research Laboratory of Vancouver, B.C.

- Certificate of Analysis V 01-0217R dated June 12, 2001

3. Analyses carried out by XRAL Laboratories of Toronto, Ontario

- Certificate of Analysis #063695 dated June 7, 2001
- Certificate of Analysis #063906 dated June 27, 2001
- Certificate of Analysis #064149 dated July 16, 2001
- Certificate of Analysis #064152 dated July 18, 2001
- Certificate of Analysis #064154 dated July 18, 2001
- Certificate of Analysis #064155 dated July 19, 2001
- Certificate of Analysis #065222 dated September 12, 2001
- Certificate of Analysis #066040 dated November 15, 2001
- Statement of Analytical Procedures

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: CROSS LAKE MINERALS LTD.

240 - 800 W. PENDER ST.
VANCOUVER, BC
V6C 2V6

A0025580

Comments: ATTN: JIM MILLER -TAIT

CERTIFICATE A0025580

(NWT) - CROSS LAKE MINERALS LTD.

Project:
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 17-AUG-2000.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	5	Geochem ring to approx 150 mesh
226	5	0-3 Kg crush and split
3202	5	Rock - save entire reject
229	5	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	5	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	5	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	5	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	5	As ppm: 32 element, soil & rock	ICP-AES	2	10000
557	5	B ppm: 32 element, rock & soil	ICP-AES	10	10000
2121	5	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	5	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	5	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	5	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	5	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
2126	5	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	5	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	5	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	5	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	5	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
20	5	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
2132	5	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	5	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	5	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	5	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	5	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	5	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
2138	5	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	5	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	5	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
551	5	S %: 32 element, rock & soil	ICP-AES	0.01	5.00
2141	5	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	5	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	5	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	5	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
2145	5	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	5	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	5	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	5	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	5	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: CROSS LAKE MINERALS LTD.

240 - 800 W. PENDER ST.
VANCOUVER, BC
V6C 2V6

Project :
Comments: ATTN: JIM MILLER -TAIT

Certificate Date: 17-AUG-2000
Invoice No. : I0025580
P.O. Number :
Account : NWT

CERTIFICATE OF ANALYSIS A0025580

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %
203401	205	226	240	>100.0	< 0.01	8	< 10	< 10	< 0.5	8	1.60	9.0	5	29	4520	2.48	< 10	360	< 0.01	< 10	0.29
203402	205	226	10	>100.0	< 0.01	6	< 10	< 10	< 0.5	< 2	6.69	4.0	4	71	3540	5.48	< 10	110	< 0.01	< 10	1.40
203403	205	226	50	>100.0	< 0.01	60	< 10	< 10	0.5	< 2	0.83	35.0	24	28	2270	>15.00	< 10	610	< 0.01	< 10	0.29
203404	205	226	30	50.8	< 0.01	< 2	< 10	< 10	0.5	10	0.05	>500	53	41	15	10.50	20	80900	< 0.01	< 10	0.15
203405	205	226	15	21.2	0.26	22	< 10	< 10	0.5	8	2.16	70.0	22	10	8	>15.00	20	2230	< 0.01	< 10	1.53

CERTIFICATION: _____

ALS Chemex

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240 - 800 W. PENDER ST.
VANCOUVER, BC
V6C 2V6

Project :
Comments: ATTN: JIM MILLER -TAIT

Page Number :1-B
Total Pages :1
Certificate Date: 17-AUG-2000
Invoice No. :I0025580
P.O. Number :
Account :NWT

CERTIFICATE OF ANALYSIS A0025580

SAMPLE	PREP CODE		Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
203401	205	226	805	< 1	< 0.01	18	70	>10000	>5.00	2020	< 1	14	< 0.01	< 10	< 10	< 1	10	304
203402	205	226	2520	4	< 0.01	12	20	>10000	2.15	256	< 1	52	< 0.01	< 10	< 10	< 1	10	112
203403	205	226	8390	< 1	< 0.01	47	50	>10000	4.66	218	< 1	15	< 0.01	< 10	< 10	< 1	20	8010
203404	205	226	2130	< 1	< 0.01	16	120	>10000	4.88	62	< 1	4	< 0.01	< 10	< 10	< 1	< 10	>10000
203405	205	226	>10000	< 1	< 0.01	62	60	>10000	1.57	20	< 1	27	< 0.01	< 10	< 10	< 1	10	>10000

CERTIFICATION:

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To: CROSS LAKE MINERALS LTD.

240 - 800 W. PENDER ST.
VANCOUVER, BC
V6C 2V6

A0025582

Comments: ATTN: JIM MILLER -TAIT

CERTIFICATE A0025582

(NWT) - CROSS LAKE MINERALS LTD.

Project:
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 18-AUG-2000.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	43	Geochem ring to approx 150 mesh
226	43	0-3 Kg crush and split
3202	43	Rock - save entire reject
229	43	ICP - AQ Digestion charge
* NOTE	1:	

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES 1 of 2

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	38	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
975	5	Au ppb: FA ICP package	FA-ICP	2	10000
976	5	Pt ppb: FA ICP package	FA-ICP	5	10000
977	5	Pd ppb: FA ICP package	FA-ICP	2	10000
2118	43	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	43	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	43	As ppm: 32 element, soil & rock	ICP-AES	2	10000
557	43	B ppm: 32 element, rock & soil	ICP-AES	10	10000
2121	43	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	43	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	43	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	43	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	43	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
2126	43	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	43	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	43	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	43	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	43	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
20	43	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
2132	43	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	43	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	43	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	43	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	43	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	43	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
2138	43	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	43	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	43	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
551	43	S %: 32 element, rock & soil	ICP-AES	0.01	5.00
2141	43	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	43	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	43	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	43	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
2145	43	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	43	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	43	V ppm: 32 element, soil & rock	ICP-AES	1	10000

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To: CROSS LAKE MINERALS LTD.

240 - 800 W. PENDER ST.
VANCOUVER, BC
V6C 2V6

A0025582

Comments: ATTN: JIM MILLER -TAIT

CERTIFICATE A0025582

(NWT) - CROSS LAKE MINERALS LTD.

Project:
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 18-AUG-2000.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	43	Geochem ring to approx 150 mesh
226	43	0-3 Kg crush and split
3202	43	Rock - save entire reject
229	43	ICP - AQ Digestion charge
* NOTE	1:	

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES 2 of 2

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
2148	43	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	43	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

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To: CROSS LAKE MINERALS LTD.

240 - 800 W. PENDER ST.
VANCOUVER, BC
V6C 2V6

Project :
Comments: ATTN: JIM MILLER -TAIT

Certificate Date: 18-AUG-2000
Invoice No. :10025582
P.O. Number :
Account :NWT

CERTIFICATE OF ANALYSIS A0025582

SAMPLE	PREP CODE		Au ppb FA+AA	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb
674605	205	226	< 5	-----	-----	-----	6.8	0.01	2	< 10	>10000	< 0.5	4	13.00	2.0	< 1	52	< 1	0.13	< 10	110
674606	205	226	< 5	-----	-----	-----	8.2	0.08	4	< 10	30	< 0.5	6	13.05	210	8	8	23	1.08	< 10	68500
674607	205	226	< 5	-----	-----	-----	10.4	0.08	< 2	< 10	10	< 0.5	4	10.10	103.0	< 1	3	12	3.29	< 10	21800
674608	205	226	< 5	-----	-----	-----	4.0	0.05	< 2	< 10	130	< 0.5	< 2	>15.00	6.5	< 1	1	< 1	0.19	< 10	1580
674609	205	226	< 5	-----	-----	-----	0.2	0.19	< 2	< 10	>10000	< 0.5	< 2	12.35	< 0.5	< 1	5	1	0.68	< 10	50
674610	205	226	< 5	-----	-----	-----	8.2	0.04	72	< 10	180	< 0.5	6	13.85	108.5	1	< 1	5	5.96	< 10	12420
674611	205	226	< 5	-----	-----	-----	0.8	0.01	< 2	< 10	330	< 0.5	< 2	>15.00	8.5	< 1	< 1	< 1	0.23	< 10	930
674612	205	226	< 5	-----	-----	-----	0.4	0.06	< 2	< 10	1750	< 0.5	< 2	>15.00	3.0	10	< 1	< 1	0.81	< 10	340
674613	205	226	< 5	-----	-----	-----	0.4	0.06	8	< 10	500	< 0.5	< 2	>15.00	5.5	1	9	2	2.29	< 10	200
674614	205	226	< 5	-----	-----	-----	0.2	0.01	2	< 10	1590	< 0.5	2	9.35	1.0	1	63	< 1	0.19	< 10	80
674615	205	226	30	-----	-----	-----	8.0	0.19	116	< 10	300	0.5	6	6.83	26.0	4	6	33	>15.00	10	3570
674616	205	226	25	-----	-----	-----	7.0	0.09	122	< 10	210	1.0	4	0.95	14.5	4	3	30	>15.00	10	1920
674617	205	226	< 5	-----	-----	-----	3.4	< 0.01	28	< 10	10	< 0.5	< 2	12.85	3.0	< 1	< 1	14	8.36	< 10	2820
674618	205	226	5	-----	-----	-----	3.4	< 0.01	52	< 10	30	0.5	< 2	10.55	4.5	< 1	< 1	26	>15.00	< 10	910
674619	205	226	< 5	-----	-----	-----	21.8	< 0.01	84	< 10	< 10	0.5	< 2	7.23	159.5	1	< 1	95	10.50	10	37500
674620	205	226	< 5	-----	-----	-----	16.8	0.03	32	< 10	30	< 0.5	6	12.10	163.5	1	1	80	3.72	10	28900
674621	205	226	< 5	-----	-----	-----	4.2	< 0.01	68	< 10	< 10	< 0.5	4	7.19	32.0	1	11	50	8.63	< 10	14380
674622	205	226	< 5	-----	-----	-----	8.8	< 0.01	198	< 10	< 10	0.5	< 2	4.31	108.0	4	5	147	>15.00	10	19230
674624	205	226	10	-----	-----	-----	21.4	< 0.01	< 2	< 10	< 10	1.5	10	0.72	14.5	13	< 1	5970	>15.00	10	220
674625	205	226	45	-----	-----	-----	>100.0	< 0.01	2	< 10	< 10	< 0.5	< 2	0.41	46.5	6	13	108	9.97	< 10	7530
674626	205	226	85	-----	-----	-----	4.6	< 0.01	222	< 10	10	0.5	12	9.69	8.0	32	1	567	>15.00	10	90
674627	205	226	80	-----	-----	-----	>100.0	< 0.01	8	< 10	< 10	< 0.5	6	4.09	8.5	5	16	2550	4.24	< 10	300
674628	205	226	55	-----	-----	-----	>100.0	< 0.01	10	< 10	< 10	< 0.5	4	5.90	7.5	5	9	1320	4.32	< 10	70
674629	205	226	10	-----	-----	-----	>100.0	0.01	2	< 10	< 10	< 0.5	2	3.43	2.0	1	45	107	2.76	< 10	40
674630	205	226	10	-----	-----	-----	>100.0	< 0.01	10	< 10	< 10	< 0.5	< 2	6.27	2.5	3	31	1420	4.20	< 10	40
674631	205	226	190	-----	-----	-----	4.8	< 0.01	308	< 10	< 10	0.5	< 2	6.16	1.5	83	28	640	14.05	< 10	< 10
674632	205	226	< 5	-----	-----	-----	10.2	< 0.01	< 2	< 10	< 10	1.0	8	1.17	12.0	5	< 1	3	>15.00	10	< 10
674633	205	226	< 5	-----	-----	-----	0.2	0.43	8	< 10	10	< 0.5	< 2	0.16	< 0.5	6	99	18	1.51	< 10	< 10
674634	205	226	40	-----	-----	-----	10.2	0.01	96	< 10	30	< 0.5	< 2	4.87	10.0	4	82	36	2.47	< 10	2420
674635	205	226	10	-----	-----	-----	0.8	< 0.01	60	< 10	< 10	< 0.5	2	12.05	2.0	3	9	26	8.22	< 10	50
674636	205	226	40	-----	-----	-----	6.6	< 0.01	156	< 10	10	0.5	< 2	3.17	34.5	7	58	101	11.30	< 10	4950
674637	205	226	30	-----	-----	-----	5.6	0.06	164	< 10	30	0.5	< 2	1.62	6.0	3	92	32	12.35	< 10	9860
674638	205	226	< 5	-----	-----	-----	1.2	0.02	40	< 10	10	< 0.5	< 2	0.70	0.5	< 1	120	5	1.95	< 10	1300
674639	205	226	30	-----	-----	-----	3.0	0.02	84	< 10	10	< 0.5	< 2	3.06	0.5	7	157	153	4.81	< 10	3490
674640	205	226	15	-----	-----	-----	7.2	< 0.01	< 2	< 10	< 10	< 0.5	6	>15.00	81.5	4	< 1	3	0.50	< 10	310
674641	205	226	235	-----	-----	-----	55.6	< 0.01	< 2	< 10	< 10	< 0.5	12	>15.00	402	20	< 1	24	1.47	< 10	2050
674642	205	226	120	-----	-----	-----	45.6	< 0.01	< 2	< 10	< 10	< 0.5	20	>15.00	492	24	< 1	21	1.64	< 10	2040
674643	205	226	< 5	-----	-----	-----	1.8	< 0.01	< 2	< 10	< 10	< 0.5	< 2	>15.00	2.0	1	6	< 1	1.06	< 10	10
674644	205	226	-----	6	< 5	< 2	1.2	1.05	16	< 10	30	< 0.5	< 2	1.02	7.0	16	40	11	4.89	< 10	40
674645	205	226	-----	< 4	< 10	< 4	< 0.2	0.01	118	130	< 10	< 0.5	< 2	0.07	< 0.5	94	132	< 1	3.37	< 10	10

CERTIFICATION: _____

ALS Chemex

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To: CROSS LAKE MINERALS LTD.

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VANCOUVER, BC
V6C 2V6

Project :
Comments: ATTN: JIM MILLER -TAIT

Certificate Date: 18-AUG-2000
Invoice No. :I0025582
P.O. Number :
Account :NWT

CERTIFICATE OF ANALYSIS A0025582

SAMPLE	PREP CODE	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
674605	205 226	< 0.01	10	1.68	175	1	< 0.01	14	< 10	>10000	< 0.01	8	< 1	5610	< 0.01	< 10	< 10	4	< 10	24
674606	205 226	< 0.01	< 10	6.85	370	6	< 0.01	76	230	>10000	2.69	14	< 1	653	< 0.01	< 10	< 10	6	< 10	>10000
674607	205 226	< 0.01	< 10	5.50	430	< 1	< 0.01	8	50	>10000	4.82	18	< 1	411	< 0.01	< 10	< 10	4	< 10	>10000
674608	205 226	< 0.01	10	9.56	745	< 1	0.01	3	< 10	>10000	0.51	4	< 1	741	< 0.01	< 10	< 10	5	< 10	846
674609	205 226	< 0.01	< 10	6.97	485	1	< 0.01	12	10	158	< 0.01	< 2	< 1	4800	< 0.01	< 10	< 10	5	< 10	16
674610	205 226	< 0.01	< 10	8.25	195	6	< 0.01	10	60	2020	0.36	6	< 1	108	< 0.01	< 10	< 10	3	< 10	>10000
674611	205 226	< 0.01	10	9.76	210	1	0.01	1	60	132	0.08	< 2	< 1	249	< 0.01	< 10	< 10	3	< 10	3500
674612	205 226	< 0.01	10	9.24	395	2	0.01	57	10	142	0.06	< 2	< 1	138	< 0.01	< 10	< 10	10	< 10	942
674613	205 226	0.01	10	8.06	475	1	< 0.01	12	90	30	0.17	< 2	< 1	100	< 0.01	< 10	< 10	8	< 10	240
674614	205 226	< 0.01	< 10	1.87	115	1	< 0.01	19	60	8	0.03	< 2	< 1	107	< 0.01	< 10	< 10	15	< 10	140
674615	205 226	0.05	< 10	4.04	585	4	< 0.01	46	240	606	0.32	22	1	43	< 0.01	< 10	< 10	10	30	7520
674616	205 226	0.05	< 10	0.53	190	3	< 0.01	51	290	310	0.25	4	1	16	0.01	< 10	< 10	13	40	8560
674617	205 226	< 0.01	< 10	3.73	130	1	< 0.01	5	150	1335	>5.00	10	< 1	24	< 0.01	< 10	< 10	1	< 10	2240
674618	205 226	0.03	< 10	3.75	195	1	< 0.01	10	200	1030	4.95	22	< 1	20	< 0.01	< 10	< 10	4	10	1670
674619	205 226	< 0.01	< 10	3.18	115	1	< 0.01	20	160	>10000	>5.00	72	< 1	10	< 0.01	< 10	< 10	< 1	< 10	>10000
674620	205 226	< 0.01	< 10	6.64	395	1	0.01	7	170	>10000	>5.00	48	< 1	14	< 0.01	< 10	< 10	3	< 10	>10000
674621	205 226	< 0.01	< 10	3.48	175	< 1	< 0.01	9	100	3420	>5.00	14	< 1	7	< 0.01	< 10	< 10	1	< 10	>10000
674622	205 226	< 0.01	< 10	1.90	155	1	< 0.01	32	210	9820	>5.00	76	< 1	12	< 0.01	< 10	< 10	< 1	< 10	>10000
674624	205 226	< 0.01	< 10	1.26	9850	< 1	< 0.01	45	10	116	0.66	< 2	< 1	11	< 0.01	< 10	< 10	< 1	40	764
674625	205 226	< 0.01	< 10	0.19	3710	< 1	< 0.01	6	50	>10000	>5.00	1205	< 1	6	< 0.01	< 10	< 10	< 1	20	>10000
674626	205 226	< 0.01	< 10	1.87	6380	< 1	< 0.01	49	60	640	>5.00	< 2	1	98	< 0.01	< 10	< 10	< 1	30	132
674627	205 226	< 0.01	< 10	0.63	1975	< 1	< 0.01	12	40	>10000	4.95	1355	< 1	30	< 0.01	< 10	< 10	< 1	10	540
674628	205 226	< 0.01	< 10	1.29	2220	< 1	< 0.01	8	30	>10000	4.17	1180	< 1	43	< 0.01	< 10	< 10	< 1	10	114
674629	205 226	< 0.01	< 10	0.50	1250	< 1	< 0.01	5	10	>10000	1.19	126	< 1	27	< 0.01	< 10	< 10	< 1	< 10	80
674630	205 226	< 0.01	< 10	1.55	1955	< 1	< 0.01	8	10	>10000	1.03	116	< 1	51	< 0.01	< 10	< 10	< 1	< 10	74
674631	205 226	< 0.01	< 10	0.50	2570	< 1	< 0.01	33	140	470	>5.00	2	< 1	57	< 0.01	< 10	< 10	< 1	< 10	38
674632	205 226	< 0.01	< 10	1.15	7720	< 1	< 0.01	33	< 10	7550	0.18	10	1	16	< 0.01	< 10	< 10	1	30	42
674633	205 226	0.03	10	0.20	140	< 1	0.01	18	170	166	0.10	< 2	< 1	3	< 0.01	< 10	< 10	7	< 10	40
674634	205 226	0.03	< 10	0.57	420	< 1	< 0.01	12	280	6320	3.09	6	< 1	140	< 0.01	< 10	< 10	< 1	< 10	7610
674635	205 226	< 0.01	< 10	2.96	7880	< 1	< 0.01	4	310	122	>5.00	2	< 1	124	< 0.01	< 10	< 10	1	< 10	934
674636	205 226	0.02	< 10	0.50	8100	< 1	< 0.01	6	670	5490	>5.00	10	< 1	41	< 0.01	< 10	< 10	< 1	< 10	>10000
674637	205 226	0.07	< 10	0.26	5650	< 1	0.01	6	610	4100	3.81	8	< 1	29	< 0.01	< 10	< 10	5	< 10	2840
674638	205 226	0.02	< 10	0.03	360	< 1	< 0.01	3	140	786	0.92	< 2	< 1	9	< 0.01	< 10	< 10	1	< 10	678
674639	205 226	0.02	< 10	0.07	620	< 1	< 0.01	6	100	2310	>5.00	2	< 1	40	< 0.01	< 10	< 10	1	< 10	1610
674640	205 226	< 0.01	10	0.14	1835	< 1	< 0.01	2	20	4960	0.63	< 2	< 1	432	< 0.01	< 10	< 10	< 1	< 10	>10000
674641	205 226	< 0.01	10	0.67	1980	< 1	< 0.01	6	70	>10000	2.35	38	< 1	268	< 0.01	< 10	< 10	< 1	< 10	>10000
674642	205 226	< 0.01	10	0.64	2040	1	< 0.01	6	80	>10000	1.88	40	< 1	234	< 0.01	< 10	< 10	< 1	< 10	>10000
674643	205 226	< 0.01	10	0.21	755	< 1	< 0.01	4	30	1410	0.03	< 2	< 1	213	< 0.01	< 10	< 10	< 1	< 10	558
674644	205 226	0.06	< 10	0.64	225	1	0.12	15	810	706	4.06	4	3	66	0.14	< 10	< 10	75	< 10	1860
674645	205 226	< 0.01	< 10	>15.00	495	< 1	< 0.01	2500	20	34	0.40	< 2	2	1	< 0.01	< 10	< 10	< 1	< 10	104

CERTIFICATION: _____

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: CROSS LAKE MINERALS LTD.

240 - 800 W. PENDER ST.
VANCOUVER, BC
V6C 2V6

Project :
Comments: ATTN: JIM MILLER -TAIT

Certificate Date: 18-AUG-2000
Invoice No. : I0025582
P.O. Number :
Account : NWT

CERTIFICATE OF ANALYSIS A0025582

PLAT

SAMPLE	PREP CODE		Au ppb FA+AA	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb
674646	205	226	-----	< 4	< 10	< 4	< 0.2	0.03	10	190	< 10	< 0.5	< 2	0.19	< 0.5	89	237	< 1	3.50	< 10	10
674647	205	226	-----	< 4	< 10	4	< 0.2	0.03	10	170	< 10	< 0.5	< 2	0.14	< 0.5	94	262	< 1	4.04	< 10	< 10
674648	205	226	-----	< 4	< 10	< 4	0.2	0.03	10	200	< 10	< 0.5	< 2	0.06	< 0.5	92	242	< 1	3.76	< 10	< 10

CERTIFICATION: _____

ALS Chemex

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212 Brooksbank Ave., North Vancouver
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To: CROSS LAKE MINERALS LTD.

240 - 800 W. PENDER ST.
VANCOUVER, BC
V6C 2V6

Project :
Comments: ATTN: JIM MILLER -TAIT

Certificate Date: 18-AUG-2000
Invoice No. : I0025582
P.O. Number :
Account : NWT

CERTIFICATE OF ANALYSIS A0025582

SAMPLE	PREP CODE		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
674646	205	226	< 0.01	< 10	>15.00	645	< 1	< 0.01	2530	30	58	0.52	< 2	3	4	< 0.01	< 10	< 10	< 1	< 10	162
674647	205	226	< 0.01	< 10	>15.00	620	< 1	< 0.01	2410	20	2	0.55	< 2	3	4	< 0.01	< 10	< 10	< 1	< 10	12
674648	205	226	< 0.01	< 10	>15.00	605	< 1	< 0.01	2490	20	8	0.73	< 2	3	1	< 0.01	< 10	< 10	< 1	< 10	24

CERTIFICATION: *+

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Aurora Laboratory Services Ltd.
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To: CROSS LAKE MINERALS LTD.

240 - 800 W. PENDER ST.
VANCOUVER, BC
V6C 2V6

A0026464

Comments: ATTN: JIM MILLER -TAIT

CERTIFICATE A0026464

(NWT) - CROSS LAKE MINERALS LTD.

Project:
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 21-AUG-2000.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
212	5	Overlimit pulp, to be found

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
384	3	Ag g/t: Gravimetric	FA-GRAVIMETRIC	3	3500
312	5	Pb %: Conc. Nitric-HCl dig'n	AAS	0.01	100.0
316	2	Zn %: Conc. Nitric-HCl dig'n	AAS	0.01	100.0

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To: CROSS LAKE MINERALS LTD.

240 - 800 W. PENDER ST.
VANCOUVER, BC
V6C 2V6

Project :
Comments: ATTN: JIM MILLER -TAIT

Page Number :1
Total Pages :1
Certificate Date: 21-AUG-2000
Invoice No. :I0026464
P.O. Number :
Account :NWT

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A0026464

SAMPLE	PREP CODE	Ag FA g/t	Pb %	Zn %
203401	212 --	1870	64.2	-----
203402	212 --	272	13.95	-----
203403	212 --	271	33.5	-----
203404	212 --	-----	8.06	32.6
203405	212 --	-----	3.75	4.29

CERTIFICATION:

OVERLIMITS FROM A0025580. * RECOMMEND TITRATION FOR Pb, & Zn >20% FOR GREATER ACCURACY

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: CROSS LAKE MINERALS LTD.

240 - 800 W. PENDER ST.
VANCOUVER, BC
V6C 2V6

A0026564

Comments: ATTN: JIM MILLER -TAIT

CERTIFICATE A0026564

(NWT) - CROSS LAKE MINERALS LTD.

Project:
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 23-AUG-2000.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
212	18	Overlimit pulp, to be found

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
384	5	Ag g/t: Gravimetric	FA-GRAVIMETRIC	3	3500
312	13	Pb %: Conc. Nitric-HCl dig'n	AAS	0.01	100.0
316	12	Zn %: Conc. Nitric-HCl dig'n	AAS	0.01	100.0

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212 Brooksbank Ave., North Vancouver
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To: CROSS LAKE MINERALS LTD.

240 - 800 W. PENDER ST.
VANCOUVER, BC
V6C 2V6

Project :
Comments: ATTN: JIM MILLER -TAIT

Page Number :1
Total Pages :1
Certificate Date: 23-AUG-2000
Invoice No. :I0026564
P.O. Number :
Account :NWT

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A0026564

SAMPLE	PREP CODE	Ag FA g/t	Pb %	Zn %
674605	212 --	-----	4.24	-----
674606 WHISTLER	212 --	-----	4.53	4.51
674607	212 --	-----	5.86	1.90
674608	212 --	-----	3.19	-----
674610 WASI CR.	212 --	-----	-----	2.46
674619	212 --	-----	9.39	10.20
674620 END	212 --	-----	5.62	9.23
674621 LAKE	212 --	-----	-----	1.98
674622	212 --	-----	-----	6.08
674625	212 --	632	49.9	1.47
674627	212 --	1205	51.8	-----
674628	212 --	1070	45.2	-----
674629 INGENIKA	212 --	121	8.11	-----
674630	212 --	135	8.35	-----
674636	212 --	-----	-----	2.73
674640	212 --	-----	-----	2.65
674641	212 --	-----	5.86	13.05
674642	212 --	-----	5.07	15.70

CERTIFICATION:

RERUNS FROM A0025582. * RECOMMEND TITRATION FOR Pb >20% FOR GREATER ACCURACY.

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
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To: CROSS LAKE MINERALS LTD.

240 - 800 W. PENDER ST.
VANCOUVER, BC
V6C 2V6

A0117685

Comments: ATTN: JIM MILLER-TAIT

CERTIFICATE A0117685

(NWT) - CROSS LAKE MINERALS LTD.

Project: INGENIKA / SWANNELL
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 11-JUL-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
201	42	Dry, sieve to -80 mesh
202	42	save reject
229	42	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Ag-ICP41	42	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
Al-ICP41	42	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
As-ICP41	42	As ppm: 32 element, soil & rock	ICP-AES	2	10000
B-ICP41	42	B ppm: 32 element, rock & soil	ICP-AES	10	10000
Ba-ICP41	42	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
Be-ICP41	42	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
Bi-ICP41	42	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
Ca-ICP41	42	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
Cd-ICP41	42	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
Co-ICP41	42	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
Cr-ICP41	42	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
Cu-ICP41	42	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
Fe-ICP41	42	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
Ga-ICP41	42	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
Hg-ICP41	42	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
K-ICP41	42	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
La-ICP41	42	La ppm: 32 element, soil & rock	ICP-AES	10	10000
Mg-ICP41	42	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
Mn-ICP41	42	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
Mo-ICP41	42	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
Na-ICP41	42	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
Ni-ICP41	42	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
P-ICP41	42	P ppm: 32 element, soil & rock	ICP-AES	10	10000
Pb-ICP41	42	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
S-ICP41	42	S %: 32 element, rock & soil	ICP-AES	0.01	10.00
Sb-ICP41	42	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
Sc-ICP41	42	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
Sr-ICP41	42	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
Ti-ICP41	42	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
Tl-ICP41	42	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
U-ICP41	42	U ppm: 32 element, soil & rock	ICP-AES	10	10000
V-ICP41	42	V ppm: 32 element, soil & rock	ICP-AES	1	10000
W-ICP41	42	W ppm: 32 element, soil & rock	ICP-AES	10	10000
Zn-ICP41	42	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

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To: CROSS LAKE MINERALS LTD.

240 - 800 W. PENDER ST.
VANCOUVER, BC
V6C 2V6

Project : INGENIKA
Comments: ATTN: JIM MILLER-TAIT

Page Number :1-A
Total Pages :2
Certificate Date: 07-JUN-2001
Invoice No. :I0117685
P.O. Number :
Account :NWT

CERTIFICATE OF ANALYSIS A0117685

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
OS+000	201	202	< 0.2	1.22	10	< 10	40	< 0.5	< 2	0.14	< 0.5	8	26	11	2.50	< 10	< 1	0.03	< 10	0.48	160
OS+025	201	202	< 0.2	1.48	6	< 10	60	< 0.5	< 2	0.16	< 0.5	8	26	7	2.68	< 10	< 1	0.04	< 10	0.40	165
OS+050	201	202	< 0.2	1.21	10	< 10	40	< 0.5	< 2	0.09	< 0.5	9	23	10	2.56	< 10	< 1	0.03	< 10	0.45	145
OS+075	201	202	< 0.2	1.28	8	< 10	40	< 0.5	< 2	0.07	< 0.5	9	25	12	2.78	< 10	< 1	0.02	< 10	0.52	160
OS+100	201	202	< 0.2	1.29	8	< 10	70	< 0.5	< 2	0.11	< 0.5	9	25	7	2.50	< 10	< 1	0.03	< 10	0.44	195
OS+125	201	202	< 0.2	1.33	8	< 10	70	< 0.5	< 2	0.13	< 0.5	9	26	7	2.46	< 10	< 1	0.03	< 10	0.45	175
OS+150	201	202	< 0.2	1.53	12	< 10	70	0.5	< 2	0.28	< 0.5	12	27	27	3.78	< 10	< 1	0.05	10	0.56	370
OS+175	201	202	< 0.2	1.32	8	< 10	80	< 0.5	< 2	0.14	< 0.5	9	27	8	2.55	< 10	< 1	0.02	< 10	0.53	225
OS+200	201	202	< 0.2	1.36	14	< 10	80	< 0.5	< 2	0.21	< 0.5	10	26	12	2.82	< 10	< 1	0.03	10	0.45	265
OS+225	201	202	< 0.2	1.01	8	< 10	50	< 0.5	< 2	0.11	< 0.5	7	21	5	2.28	< 10	< 1	0.03	< 10	0.35	200
OS+250	201	202	< 0.2	1.19	8	< 10	60	< 0.5	< 2	0.09	< 0.5	8	23	12	2.56	< 10	< 1	0.02	< 10	0.44	170
OS+275	201	202	< 0.2	1.58	12	< 10	50	< 0.5	< 2	0.19	< 0.5	11	31	10	2.77	< 10	< 1	0.03	< 10	0.57	355
OS+300	201	202	< 0.2	1.15	10	< 10	50	< 0.5	< 2	0.08	< 0.5	9	23	15	2.44	< 10	< 1	0.02	< 10	0.45	220
OS+325	201	202	< 0.2	1.27	6	< 10	90	< 0.5	< 2	0.15	< 0.5	8	23	8	2.37	< 10	< 1	0.03	< 10	0.40	200
OS+350	201	202	< 0.2	0.85	6	< 10	50	< 0.5	< 2	0.14	< 0.5	6	18	4	1.85	< 10	< 1	0.03	< 10	0.29	280
OS+375	201	202	< 0.2	1.20	10	< 10	50	< 0.5	< 2	0.14	< 0.5	8	27	7	2.43	< 10	< 1	0.03	< 10	0.45	170
OS+400	201	202	< 0.2	1.08	8	< 10	50	< 0.5	< 2	0.06	< 0.5	9	21	12	2.27	< 10	< 1	0.03	< 10	0.33	155
OS+425	201	202	< 0.2	1.14	14	< 10	40	< 0.5	2	0.07	< 0.5	9	23	14	2.70	< 10	< 1	0.03	< 10	0.39	145
OS+450	201	202	< 0.2	1.28	10	< 10	50	< 0.5	< 2	0.12	< 0.5	10	27	11	2.83	< 10	< 1	0.03	< 10	0.44	155
OS+475	201	202	< 0.2	1.26	12	< 10	60	< 0.5	< 2	0.29	< 0.5	10	26	21	2.79	< 10	< 1	0.04	10	0.55	250
OS+500	201	202	< 0.2	1.19	10	< 10	60	< 0.5	< 2	0.14	< 0.5	8	25	13	2.31	< 10	< 1	0.03	10	0.39	200
S+000W	201	202	< 0.2	0.56	8	< 10	20	< 0.5	< 2	0.26	< 0.5	17	41	15	2.77	< 10	< 1	0.05	10	2.17	255
S+025W	201	202	< 0.2	1.31	16	< 10	70	< 0.5	< 2	0.37	< 0.5	19	45	23	3.76	< 10	< 1	0.12	10	1.21	335
S+050W	201	202	< 0.2	1.08	12	< 10	50	< 0.5	< 2	0.31	< 0.5	19	40	18	3.26	< 10	< 1	0.07	10	1.24	200
S+075W	201	202	< 0.2	1.15	10	< 10	70	< 0.5	< 2	0.45	< 0.5	19	40	17	3.33	< 10	< 1	0.10	10	1.43	420
S+100W	201	202	< 0.2	0.76	10	< 10	20	< 0.5	< 2	0.22	< 0.5	16	31	17	2.61	< 10	< 1	0.08	< 10	1.50	235
S+125W	201	202	< 0.2	0.70	10	< 10	10	< 0.5	< 2	0.09	< 0.5	18	37	17	2.69	< 10	< 1	0.08	< 10	1.65	285
S+150W	201	202	< 0.2	0.82	12	< 10	30	< 0.5	< 2	0.19	< 0.5	16	31	14	2.63	< 10	< 1	0.11	< 10	1.28	210
S+175W	201	202	< 0.2	0.87	12	< 10	20	< 0.5	< 2	0.14	< 0.5	18	43	14	3.01	< 10	< 1	0.09	< 10	1.44	195
S+200W	201	202	< 0.2	0.95	12	< 10	30	< 0.5	< 2	0.15	< 0.5	19	41	21	2.98	< 10	< 1	0.12	10	1.66	310
S+225W	201	202	< 0.2	1.00	12	< 10	30	< 0.5	< 2	0.14	< 0.5	19	46	24	3.15	< 10	< 1	0.06	10	1.58	305
S+250W	201	202	< 0.2	1.39	14	< 10	60	0.5	< 2	0.15	< 0.5	20	43	28	3.63	< 10	< 1	0.12	10	1.19	370
S+275W	201	202	< 0.2	1.32	12	< 10	50	< 0.5	< 2	0.17	< 0.5	24	52	20	3.79	< 10	< 1	0.07	10	1.55	245
S+300W	201	202	< 0.2	0.86	10	< 10	30	< 0.5	< 2	0.15	< 0.5	21	50	18	3.12	< 10	< 1	0.08	< 10	1.93	280
S+325W	201	202	< 0.2	0.99	12	< 10	40	< 0.5	< 2	0.13	< 0.5	20	39	14	2.92	< 10	< 1	0.09	< 10	1.23	210
S+350W	201	202	< 0.2	1.54	12	< 10	60	< 0.5	< 2	0.14	< 0.5	16	57	14	3.51	< 10	< 1	0.04	< 10	0.50	135
S+375W	201	202	< 0.2	1.15	12	< 10	60	< 0.5	< 2	0.11	< 0.5	16	51	15	2.80	< 10	< 1	0.06	10	0.52	160
S+400W	201	202	< 0.2	1.07	12	< 10	40	< 0.5	< 2	0.13	< 0.5	19	50	17	3.00	< 10	< 1	0.07	< 10	1.02	175
S+425W	201	202	< 0.2	1.38	12	< 10	50	< 0.5	< 2	0.12	< 0.5	17	55	16	3.40	< 10	< 1	0.08	< 10	0.56	155
S+450W	201	202	< 0.2	1.65	14	< 10	60	0.5	< 2	0.14	< 0.5	19	53	30	3.53	< 10	< 1	0.08	10	0.73	275

INGENIKA

SWANNELL

CERTIFICATION: _____

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: CROSS LAKE MINERALS LTD.

240 - 800 W. PENDER ST.
VANCOUVER, BC
V6C 2V6

Project : INGENIKA
Comments: ATTN: JIM MILLER-TAIT

CERTIFICATE OF ANALYSIS A0117685

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
OS+000	201	202	< 1	< 0.01	22	240	6	< 0.01	< 2	1	11	0.03	< 10	< 10	29	< 10	44
OS+025	201	202	< 1	< 0.01	24	290	8	< 0.01	< 2	1	14	0.03	< 10	< 10	32	< 10	56
OS+050	201	202	< 1	< 0.01	22	210	10	< 0.01	< 2	1	9	0.01	< 10	< 10	22	< 10	50
OS+075	201	202	< 1	< 0.01	22	270	6	< 0.01	< 2	1	8	0.01	< 10	< 10	23	< 10	46
OS+100	201	202	< 1	< 0.01	19	340	8	< 0.01	2	1	11	0.03	< 10	< 10	32	< 10	60
OS+125	201	202	< 1	< 0.01	20	230	10	< 0.01	< 2	1	12	0.03	< 10	< 10	31	< 10	68
OS+150	201	202	< 1	< 0.01	40	220	68	< 0.01	< 2	4	20	0.01	< 10	< 10	23	< 10	304
OS+175	201	202	< 1	< 0.01	20	140	6	< 0.01	< 2	1	13	0.03	< 10	< 10	32	< 10	46
OS+200	201	202	< 1	< 0.01	25	190	52	< 0.01	2	1	12	0.01	< 10	< 10	25	< 10	116
OS+225	201	202	< 1	< 0.01	15	130	10	< 0.01	< 2	< 1	7	0.03	< 10	< 10	27	< 10	86
OS+250	201	202	< 1	< 0.01	22	210	10	< 0.01	2	1	6	0.01	< 10	< 10	23	< 10	52
OS+275	201	202	< 1	< 0.01	25	370	8	< 0.01	< 2	1	15	0.04	< 10	< 10	38	< 10	68
OS+300	201	202	< 1	< 0.01	24	310	8	< 0.01	< 2	1	8	0.01	< 10	< 10	21	< 10	38
OS+325	201	202	< 1	< 0.01	18	170	10	< 0.01	< 2	1	14	0.01	< 10	< 10	26	< 10	42
OS+350	201	202	< 1	< 0.01	11	150	8	< 0.01	< 2	< 1	12	0.02	< 10	< 10	29	< 10	30
OS+375	201	202	< 1	< 0.01	18	140	8	< 0.01	2	1	12	0.04	< 10	< 10	34	< 10	34
OS+400	201	202	< 1	< 0.01	24	330	6	< 0.01	< 2	1	6	0.01	< 10	< 10	18	< 10	30
OS+425	201	202	< 1	< 0.01	22	270	8	< 0.01	< 2	1	6	0.02	< 10	< 10	24	< 10	36
OS+450	201	202	< 1	< 0.01	22	340	10	< 0.01	< 2	1	11	0.03	< 10	< 10	33	< 10	38
OS+475	201	202	< 1	< 0.01	36	280	12	< 0.01	< 2	3	17	0.02	< 10	< 10	22	< 10	42
OS+500	201	202	< 1	< 0.01	24	200	6	< 0.01	< 2	2	13	0.02	< 10	< 10	22	< 10	32
S+000W	201	202	< 1	< 0.01	143	450	6	0.01	< 2	1	15	0.02	< 10	< 10	37	< 10	38
S+025W	201	202	< 1	< 0.01	86	280	16	0.01	< 2	2	32	0.04	< 10	< 10	35	< 10	136
S+050W	201	202	< 1	< 0.01	99	460	12	< 0.01	< 2	3	25	0.03	< 10	< 10	25	< 10	56
S+075W	201	202	< 1	< 0.01	96	340	12	0.01	< 2	2	36	0.03	< 10	< 10	29	< 10	72
S+100W	201	202	< 1	< 0.01	106	310	10	0.01	< 2	1	16	0.03	< 10	< 10	25	< 10	38
S+125W	201	202	< 1	< 0.01	124	240	8	< 0.01	< 2	1	5	0.03	< 10	< 10	30	< 10	36
S+150W	201	202	< 1	< 0.01	88	530	8	< 0.01	< 2	1	10	0.03	< 10	< 10	23	< 10	46
S+175W	201	202	< 1	< 0.01	107	210	10	< 0.01	< 2	1	8	0.03	< 10	< 10	35	< 10	40
S+200W	201	202	< 1	< 0.01	128	390	8	< 0.01	< 2	3	9	0.04	< 10	< 10	27	< 10	44
S+225W	201	202	< 1	< 0.01	122	310	10	< 0.01	< 2	2	9	0.04	< 10	< 10	29	< 10	44
S+250W	201	202	< 1	< 0.01	103	410	12	< 0.01	2	3	10	0.04	< 10	< 10	28	< 10	64
S+275W	201	202	< 1	< 0.01	107	490	12	< 0.01	< 2	1	10	0.04	< 10	< 10	38	< 10	60
S+300W	201	202	< 1	< 0.01	146	390	10	< 0.01	< 2	2	9	0.04	< 10	< 10	34	< 10	40
S+325W	201	202	< 1	< 0.01	85	500	12	< 0.01	< 2	1	7	0.04	< 10	< 10	25	< 10	70
S+350W	201	202	< 1	< 0.01	65	220	12	< 0.01	< 2	1	12	0.04	< 10	< 10	44	< 10	74
S+375W	201	202	< 1	< 0.01	60	300	8	< 0.01	< 2	4	8	0.04	< 10	< 10	25	< 10	50
S+400W	201	202	< 1	< 0.01	97	500	8	< 0.01	< 2	1	8	0.04	< 10	< 10	28	< 10	46
S+425W	201	202	< 1	< 0.01	74	500	10	< 0.01	< 2	1	9	0.04	< 10	< 10	34	< 10	56
S+450W	201	202	< 1	< 0.01	88	310	10	< 0.01	< 2	5	13	0.05	< 10	< 10	27	< 10	58

CERTIFICATION: _____

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: CROSS LAKE MINERALS LTD.

240 - 800 W. PENDER ST.
VANCOUVER, BC
V6C 2V6

Project : INGENIKA
Comments: ATTN: JIM MILLER-TAIT

Page Number :2-A
Total Pages :2
Certificate Date: 07-JUN-2001
Invoice No. :I0117685
P.O. Number :
Account :NWT

CERTIFICATE OF ANALYSIS A0117685

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
S+500W	201	202	< 0.2	1.41	18	< 10	60	0.5	< 2	0.34	< 0.5	23	42	40	3.62	< 10	< 1	0.13	10	1.51	540
W-01-1	201	202	0.2	0.76	26	< 10	810	< 0.5	< 2	3.12	5.5	9	20	86	3.37	< 10	< 1	0.09	< 10	1.56	905

CERTIFICATION:

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: CROSS LAKE MINERALS LTD.

240 - 800 W. PENDER ST.
VANCOUVER, BC
V6C 2V6

Project : INGENIKA
Comments: ATTN: JIM MILLER-TAIT

Page Number :2-B
Total Pages :2
Certificate Date: 07-JUN-2001
Invoice No. :10117685
P.O. Number :
Account :NWT

CERTIFICATE OF ANALYSIS A0117685

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
S+500W	201	202	< 1	< 0.01	129	470	14	0.01	< 2	3	22	0.05	< 10	< 10	27	< 10	64
W-01-1	201	202	19	< 0.01	85	3430	204	0.10	6	2	460	0.01	< 10	< 10	118	< 10	1275

CERTIFICATION:

ALS Chemex

212 Brooksbank Avenue
North Vancouver, BC
Canada
V7J 2C1

Phone 604-984-0221
Fax 604-984-0218

FACSIMILE MESSAGE

To:	CROSSLAKE MINERALS	**From:**	Stuart Mcleod
Name:	Jim Miller Tait	**Pages:**	6 (including this page)
Fax:	688 - 5443	**Date:**	January 14, 2000
Re:	Analytical methods used .		

Dear Mr. Jim Miller Tait ,
Please find attached 5 pages regarding the analytical methods we used to analyze your samples.

Please let me know if you need anything else.

Thank You
Stuart Mcleod.

Chemex Labs

* Geochemical Procedure - G32 Package

Sample Decomposition: Nitric Aqua Regia Digestion
Analytical Method: Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP - AES)

A prepared sample (1.00 gram) is digested with concentrated nitric acid for at least one hour. After cooling, hydrochloric acid is added to produce aqua regia and the mixture is then digested for an additional hour and a half. The resulting solution is diluted to 25ml with demineralized water, mixed and analyzed by inductively coupled plasma-atomic emission spectrometry. The analytical results are corrected for inter-element spectral interferences.

Chemex Code		Element	Symbol	Detection Limit	Upper Limit
229		ICP-AQ Digestion	n/a	n/a	n/a
2119	*	Aluminum	Al	0.01%	15 %
2141		Antimony	Sb	2 ppm	1 %
2120		Arsenic	As	2 ppm	1 %
2121	*	Barium	Ba	10 ppm	1 %
2122	*	Beryllium	Be	0.5 ppm	0.01 %
2123		Bismuth	Bi	2 ppm	1 %
557		Boron	B	10 ppm	10,000 ppm
2125		Cadmium	Cd	0.5 ppm	0.05 %
2124	*	Calcium	Ca	0.01%	15 %
2127	*	Chromium	Cr	1 ppm	1 %
2126		Cobalt	Co	1 ppm	1 %
2128		Copper	Cu	1 ppm	1 %
2130	*	Gallium	Ga	10 ppm	1 %
2150		Iron	Fe	0.01%	15 %
2151	*	Lanthanum	La	10 ppm	1 %
2140		Lead	Pb	2 ppm	1 %
2134	*	Magnesium	Mg	0.01%	15 %
2135		Manganese	Mn	5 ppm	1 %
2131		Mercury	Hg	1 ppm	1 %
2136		Molybdenum	Mo	1 ppm	1 %
2138		Nickel	Ni	1 ppm	1 %
2139		Phosphorus	P	10 ppm	1 %
2132	*	Potassium	K	0.01%	10 %

Chemex Labs

Geochemical Procedure - G32 Package *(con't)*

Chemex Code		Element	Symbol	Detection Limit	Upper Limit
2142	*	Scandium	Sc	1 ppm	1 %
2118		Silver	Ag	0.2 ppm	0.01 %
2137	*	Sodium	Na	0.01%	10 %
2143	*	Strontium	Sr	1 ppm	1 %
551		Sulfur	S	0.01 %	5 %
2145	*	Thallium	Tl	10 ppm	1 %
2144	*	Titanium	Ti	0.01%	10 %
2148	*	Tungsten	W	10 ppm	1 %
2146		Uranium	U	10 ppm	1 %
2147		Vanadium	V	1 ppm	1 %
2149		Zinc	Zn	2 ppm	1 %

*Elements for which the digestion is possibly incomplete.

April 9, 1999

Chemex Labs

Assay Procedure - Arsenic, Bismuth, Cadmium, Copper, Iron, Lead, Molybdenum, Silver, and Zinc by Nitric- Aqua Regia digestion

Sample Decomposition: Nitric - Aqua Regia Digestion
Analytical Method: Atomic Absorption Spectroscopy (AAS)

A prepared sample (0.2 to 2.0g) is digested with concentrated nitric acid for one half hour. After cooling, hydrochloric acid is added to produce aqua regia and the mixture is then digested for an additional hour and a half. An ionization suppressant is added if molybdenum is to be measured. The resulting solution is diluted to volume (100 or 250 ml) with demineralized water, mixed and then analyzed by atomic absorption spectrometry against matrix-matched standards.

International Units:

	Chemex Code	Element	Symbol	Detection Limit	Upper Limit
	331	Arsenic	As	0.01 %	100 %
	349	Bismuth	Bi	0.001 %	100 %
	320	Cadmium	Cd	0.001 %	100 %
*	301	Copper	Cu	0.01 %	100 %
	3501	Copper	Cu	0.001 %	100 %
	3508	Copper	Cu	10 ppm	1,000,000 ppm
	326	Iron	Fe	0.01 %	100 %
*	312	Lead	Pb	0.01 %	100 %
	306	Molybdenum	Mo	0.001 %	100 %
	307	Molybdenum as MoS_2	MoS_2	0.001 %	100 %
	386	Silver	Ag	0.3 g/t	350 g/t
	956	Silver (Rush charge)	Ag	0.3 g/t	350 g/t
*	316	Zinc	Zn	0.01 %	100 %
	8089	Manganese	Mn	0.01 %	100 %

American/English Units:

Chemex Code	Element	Symbol	Detection Limit	Upper Limit
385	Silver	Ag	0.01 oz/ton	10.0 oz/ton
980	Silver (Rush charge)	Ag	0.01 oz/ton	10.0 oz/ton

May 4, 1999

Chemex Labs

Fire Assay Procedure - Gold, Silver

Sample Decomposition: Fire Assay Fusion
Analytical Method: Gravimetric

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents in order to produce a lead button. The lead button containing the precious metals is cupelled to remove the lead. The remaining gold and silver bead is parted in dilute nitric acid, annealed and weighed as gold. Silver, if requested, is then determined by the difference in weights.

International Units:

Routine Code	Rush Code	Element	*Sample Weight	Symbol	Detection Limit	Upper Limit
397	474	Gold	½ assay ton	Au	0.1 g/t	1,000 g/t
* 997	955	Gold	1 assay ton	Au	0.07 g/t	1,000 g/t
3597		Gold	50 grams	Au	0.07 g/t	1,000 g/t
1297		Gold	2 assay ton	Au	0.03 g/t	1,000 g/t
1597		Gold	5 assay ton	Au	0.03 g/t	1,000 g/t
448		Gold	all	Au	0.002 mg	30 mg
* 384	473	Silver	½ assay ton	Ag	3 g/t	3,500 g/t
447		Silver	all	Ag	0.1 mg	100 mg

American/English Units:

Routine Code	Rush Code	Element	*Sample Weight	Symbol	Detection Limit	Upper Limit
396	471	Gold	½ assay ton	Au	0.003 oz/ton	30 oz/ton
996	954	Gold	1 assay ton	Au	0.002 oz/ton	30 oz/ton
3596		Gold	50 grams	Au	0.001 oz/ton	30 oz/ton
1296		Gold	2 assay ton	Au	0.001 oz/ton	30 oz/ton
1596		Gold	5 assay ton	Au	0.001 oz/ton	30 oz/ton
383	470	Silver	½ assay ton	Ag	0.1 oz/ton	100 oz/ton

*Note:
½ assay ton = 14.5883 grams
1 assay ton = 29.166 grams
2 assay ton = 58.322 grams
5 assay ton = 145.83 grams

July 2, 1999

Chemex Labs

Fire Assay Procedure - Trace Gold

Sample Decomposition: Fire Assay Fusion
Analytical Method: Atomic Absorption Spectroscopy (AAS)

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents as required inquarted with 6 mg of gold-free silver and then cupelled to yield a precious metal bead.

The bead is digested for ★ hour in dilute nitric acid. Hydrochloric acid is then added and the solution is digested for an additional hour. The digested solution is cooled, diluted to 7.5 ml with demineralized water, homogenized and then analyzed by atomic absorption spectrometry.

International Units:

Routine Code	Rush Code	Element	Sample Weight (grams)	Symbol	Detection Limit	Upper Limit
100	990	Gold	10	Au	5 ppb	10,000 ppb
96	1090	Gold	10	Au	0.005 ppm	10 ppm
✱ 983	991	Gold	30	Au	5 ppb	10,000 ppb
99	1091	Gold	30	Au	0.005 ppm	10 ppm
494	1209	Gold	30	Au	0.005 g/t	10 g/t
3583		Gold	50	Au	5 ppb	10,000 ppb
3584		Gold	50	Au	0.005 ppm	10 ppm
3594		Gold	50	Au	0.005 g/t	10 g/t

American/English Units:

Routine Code	Rush Code	Element	Sample Weight (grams)	Symbol	Detection Limit	Upper Limit
877	1977	Gold	30	Au	0.0002 oz/ton	0.3 oz/ton

September 8, 1998

14 JUN 2001 Charge statement for COMINCO E.R.L. Job No : V01-0217R

COMINCO EXPLORATION RESEARCH LABORATORY

Project : CROSS LAKE MINERALS
Ref/I.D.: (W-1,2/I-1,2,3)

Reported to : JIM MILLER-TAIT
and :

Shipped to lab : 08 06 01
Received at lab: 08 06 01
Work completed : 12 06 01

Lab Nos : R01-02799 to R01-02803

Analysis/prep	reported	no req	no @	rate	no @	rate	$ TOTAL
Rock Slabbing/Polishing (hrly)			2 @	$40.00			80.00
Pb assay	12 06 01	5	5 @	$8.00			40.00
Zn assay	12 06 01	5	5 @	$8.00			40.00
Ag acid dig/AA	12 06 01	5	5 @	$5.00			25.00
Standard Rock Prep			5 @	$5.00			25.00

Job Cost = $ 210.00
G.S.T (7%) = $ 14.70
TOTAL PAYABLE (Cdn) = $ 224.70

Methods of analysis were reported with the results,as were field nos

Enquiries to: Susie Woo/Jim McLeod
Cominco Exploration Research Laboratory
1486 East Pender Street, Vancouver, B.C. V5L 1V8
PHONE (604)685-3032 / FAX (604)844-2686

CROSS LAKE MINERALS-X01

Job V 01-0217R

W-1,2/I-1,2,3

Report date 12 JUN 2001

LAB NO	FIELD NUMBER	Pb(1) %	Zn(1) %	Ag(2) g/t
R0102799	W-1	25.98	26.30	96.3
R0102800	W-2	42.43	8.46	384.8
R0102801	I-1	16.28	25.62	139.8
R0102802	I-2	0.59	31.07	8.4
R0102803	I-3	8.77	33.61	81.4

INGENIKA

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised
If requested analyses are not shown ,results are to follow

ANALYTICAL METHODS

Pb(1) Assay
Zn(1) Assay
Ag(2) Acid decomposition / AAS

JUN 21 2001

XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ontario
Canada M3B 3J4
Telephone (416) 445-5755
Fax (416) 445-4152

CERTIFICATE OF ANALYSIS

Work Order: 063695

To: Cross Lake Minerals Ltd
Attn: Jim Miller-Tait

240-800 West Pender St.
VANCOUVER
BC/CANADA/V6C 2V6

Date : 07/06/01

Copy 1 to :

Copy 2 to :

P.O. No.	:	
Project No.	:	INGENIKA
No. of Samples	:	40 Soil
Date Submitted	:	04/06/01
Report Comprises	:	Cover Sheet plus Pages 1 to 2

Distribution of unused material:
Pulps: STORE
Rejects: STORE

Certified By :

Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

Subject to SGS General Terms and Conditions

Report Footer:
L.N.R. = Listed not received
I.S. = Insufficient Sample
n.a. = Not applicable
-- = No result
*INF = Composition of this sample makes detection impossible by this method
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Work Order: 063695 **Date:** 07/06/01 **FINAL**

Element.	Cu	Zn	Cd	Pb
Method.	MMI-A	MMI-A	MMI-A	MMI-A
Det.Lim.	5	5	10	20
Units.	ppb	ppb	ppb	ppb
SW 000W	119	2100	<10	<20
SW 025W	168	2190	26	61
SW 050W	182	663	54	125
SW 075W	141	487	24	83
SW 100W	287	172	17	119
SW 125W	85	61	<10	242
SW 150W	86	1270	15	72
SW 175W	67	371	<10	80
SW 200W	123	1310	19	207
SW 225W	120	218	13	271
SW 250W	214	199	12	165
SW 275W	73	233	<10	236
SW 325W	66	856	13	241
SW 350W	60	402	<10	206
SW 375W	50	126	<10	128
SW 400W	67	75	<10	146
SW 425W	76	129	<10	85
SW 450W	66	65	<10	294
SW 500W	379	780	<10	143
OS 075S	91	645	<10	256
OS 000W	63	338	<10	150
OS 025W	91	145	<10	227
OS 050W	104	174	<10	315
OS 100W	71	678	<10	414
OS 125W	46	67	<10	289
OS 150W	197	242	<10	71
OS 175W	55	133	<10	160
OS 200W	65	1770	<10	599
OS 225W	36	2610	19	316
OS 250W	38	4740	38	319
OS 275W	113	201	<10	187
OS 300W	38	53	<10	150
OS 325W	102	239	<10	283
OS 350W	92	366	<10	214
OS 375W	97	56	<10	166
OS 400W	118	484	<10	209
OS 425W	69	160	<10	357
OS 450W	58	121	<10	180
OS 475W	238	70	<10	232
OS 500W	95	79	<10	307
*Dup SW 000W	116	2170	13	<20
*Dup SW 325W	59	784	11	207
*Dup OS 125W	41	68	<10	311
*Dup OS 425W	75	160	<10	395
*Blk BLANK	<5	<5	<10	<20

SWANNELL

INGENIKA

Element.	Cu	Zn	Cd	Pb
Method.	MMI-A	MMI-A	MMI-A	MMI-A
Det.Lim.	5	5	10	20
Units.	ppb	ppb	ppb	ppb
*Std MMISRM07	612	4310	17	413

XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ontario
Canada M3B 3J4
Telephone (416) 445-5755
Fax (416) 445-4152

CERTIFICATE OF ANALYSIS

Work Order: 063906

To: Cross Lake Minerals Ltd
Attn: Jim Miller-Tait

240-800 West Pender St.
VANCOUVER
BC/CANADA/V6C 2V6

Date : 27/06/01

Copy 1 to :

P.O. No.	:	
Project No.	:	Ingerika Ingenika
No. of Samples	:	21 Soil(MMI)
Date Submitted	:	21/06/01
Report Comprises	:	Cover Sheet plus Pages 1 to 1

Distribution of unused material:
Pulps: Store.
Rejects: Store.

Certified By :

Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

Report Footer:
L.N.R. = Listed not received
I.S. = Insufficient Sample
n.a. = Not applicable
-- = No result
*INF = Composition of this sample makes detection impossible by this method
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

XRAL Laboratories
A Division of SGS Canada Inc.

Work Order: 063906 **Date:** 27/06/01 **FINAL**

Element.	Cu	Zn	Cd	Pb
Method.	MMI-A	MMI-A	MMI-A	MMI-A
Det.Lim.	5	5	10	20
Units.	ppb	ppb	ppb	ppb
ON-M-000	29	136	<10	98
ON-M-025	52	41	<10	74
ON-M-050	51	70	<10	140
ON-M-075	30	55	<10	153
ON-M-100	159	74	13	6390
ON-M-125	31	97	<10	195
ON-M-150	43	98	<10	237
ON-M-175	29	102	<10	358
ON-M-200	30	59	<10	231
ON-M-225	43	79	<10	183
ON-M-250	34	159	<10	140
ON-M-275	68	58	13	111
ON-M-300	24	51	12	179
ON-M-325	62	203	10	80
ON-M-350	99	79	16	87
ON-M-375	49	49	13	327
ON-M-400	646	46	<10	89
ON-M-425	23	54	<10	71
ON-M-450	34	313	12	247
ON-M-475	63	93	13	130
ON-M-500	57	60	<10	136

XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ontario
Canada M3B 3J4
Telephone (416) 445-5755
Fax (416) 445-4152

CERTIFICATE OF ANALYSIS

Work Order: 064149

To: **Cross Lake Minerals Ltd**
Attn: Jim Miller-Tait

240-800 West Pender St.
VANCOUVER
BC/CANADA/V6C 2V6

Date : 16/07/01

Copy 1 to :

P.O. No.	:	
Project No.	:	INGENIKA ✓
No. of Samples	:	54 Soil(MMI)
Date Submitted	:	10/07/01
Report Comprises	:	Cover Sheet plus Pages 1 to 2

Distribution of unused material:
Pulps: Store.
Rejects: Store.

Certified By :

Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result
*INF	= Composition of this sample makes detection impossible by this method		

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Work Order: 064149 **Date:** 16/07/01 **FINAL**

Element.	Cu	Zn	Cd	Pb
Method.	MMI-A	MMI-A	MMI-A	MMI-A
Det.Lim.	5	5	10	20
Units.	ppb	ppb	ppb	ppb
IBL+00S	38	65	<10	50
IBL+50S	23	32	<10	143
IBL+75S	130	166	<10	187
IBL+100S	55	100	<10	234
IBL+275S	43	749	<10	277
IBL+300S	12	800	10	151
IBL+575S	94	31	<10	124
IBL+625S	20	20	<10	<20
IBL+675S	113	91	<10	189
IBL+725S	100	25	<10	127
IL1S+50E	20	26	<10	136
IL1S+75E	39	117	<10	317
IL1S+100E	23	126	<10	37
IL1S+125E	38	21	<10	<20
IL1S+150E	31	70	<10	32
IL1S+175E	15	65	<10	<20
IL1S+200E	15	45	<10	<20
IL1S+225E	78	72	<10	94
IL1S+50W	16	27	<10	49
IL1S+75W	22	9	<10	39
IL1S+250W	17	31	<10	<20
IL2S+25E	112	459	<10	231
IL2S+50E	33	460	<10	163
IL2S+75E	26	353	<10	99
IL2S+100E	52	310	<10	143
IL2S+150E	28	89	<10	193
IL2S+175E	41	200	<10	158
IL2S+200E	62	159	<10	371
IL2S+225E	34	210	<10	242
IL2S+250E	37	229	<10	181
IL2S+75W	34	33	<10	289
IL2S+125W	134	3590	11	73
IL2S+150W	16	159	<10	220
IL2S+175W	63	68	<10	301
IL2S+200W	79	52	<10	550
IL2S+225W	52	205	<10	187
IL4S+25E	98	203	<10	207
IL4S+75E	45	143	<10	253
IL4S+100E	73	27	<10	108
IL4S+125E	70	424	<10	273
IL4S+150E	31	221	<10	145
IL4S+175E	43	303	<10	200
IL4S+200E	53	213	<10	221
IL4S+225E	36	287	<10	155
IL4S+250E	42	106	<10	166

Element.	Cu	Zn	Cd	Pb
Method.	MMI-A	MMI-A	MMI-A	MMI-A
Det.Lim.	5	5	10	20
Units.	ppb	ppb	ppb	ppb
IL4S+275E	42	239	<10	384
*Blk BLANK	<5	<5	<10	<20
*Std MMISRM07	654	8630	23	516
IL4S+300E	31	247	<10	206
IL4S+325E	34	732	<10	580
IL4S+350E	29	518	<10	162
IL4S+375E	32	75	<10	54
IL5S+150E	45	708	<10	344
IL5S+450E	32	1510	<10	394
IL5S+500E	76	128	<10	64
IL6S+250E	17	973	<10	<20
*Dup IBL+00S	40	74	<10	70
*Dup IL1S+100E	23	114	<10	24
*Dup IL2S+100E	47	303	<10	156
*Dup IL4S+25E	108	187	<10	225
*Dup IL4S+350E	31	510	<10	168
*Blk BLANK	<5	<5	<10	<20
*Std MMISRM07	647	8630	24	562

JUL 2 4 2001

XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ontario
Canada M3B 3J4
Telephone (416) 445-5755
Fax (416) 445-4152

CERTIFICATE OF ANALYSIS

Work Order: 064152

To: **Cross Lake Minerals Ltd**
Attn: Jim Miller-Tait

240-800 West Pender St.
VANCOUVER
BC/CANADA/V6C 2V6

Date : 18/07/01

Copy 1 to :

P.O. No.	:	
Project No.	:	INGENIKA ✓
No. of Samples	:	55 Soil(MMI)
Date Submitted	:	10/07/01
Report Comprises	:	Cover Sheet plus Pages 1 to 2

Distribution of unused material:
Pulps: Store.
Rejects: Store.

Certified By :

Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

Subject to SGS General Terms and Conditions

Report Footer:
L.N.R. = Listed not received
I.S. = Insufficient Sample
n.a. = Not applicable
-- = No result
*INF = Composition of this sample makes detection impossible by this method
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Element.	Cu	Zn	Cd	Pb
Method.	MMI-A	MMI-A	MMI-A	MMI-A
Det.Lim.	5	5	10	20
Units.	ppb	ppb	ppb	ppb
IBL+25S	49	378	<10	341
IBL-100S	311	112	<10	96
IBL-125S	23	31	<10	177
IBL-150S	42	64	<10	278
IBL-175S	42	318	<10	158
IBL-200S	63	278	<10	457
IBL-225S	44	164	<10	203
IBL+275S	56	385	<10	110
IBL-325S	247	1780	36	420
IBL-350S	100	114	<10	635
IBL-375S	44	700	<10	239
IBL-400S	71	117	<10	252
IBL-425S	40	204	<10	374
IBL-450S	310	98	<10	254
IBL-475S	53	77	<10	122
IBL-500S	41	271	<10	205
IBL-525S	52	165	<10	295
IBL-550S	92	125	<10	286
IBL-600S	21	10	<10	<20
IBL-650S	41	928	<10	<20
IBL-700S	58	113	<10	196
IBL-750S	51	133	<10	645
IBL+775S	34	486	<10	257
IBL+800S	65	473	<10	195
IL1S+25E	53	266	<10	250
IL1S+50E	41	217	<10	178
IL1S+125E	85	112	<10	125
IL1S+250E	17	11	<10	<20
IL1S+25W	22	299	<10	<20
IL1S+100W	15	25	<10	<20
IL1S+125W	16	41	<10	<20
IL1S+150W	25	1150	<10	39
IL1S+175W	13	10	<10	<20
IL1S+200W	15	<5	<10	<20
IL1S+225W	12	17	<10	<20
IL2S+25W	25	703	<10	154
IL2S+50W	37	1060	<10	177
IL2S+100W ✓	30	71	<10	215
IL2S+250W	146	165	<10	59
IL4S+25W	52	109	<10	224
IL4S+50W	40	642	<10	173
IL4S+75W	70	63	<10	66
IL4S+100W	32	117	<10	217
IL4S+125W	40	75	<10	150
IL4S+150W	39	117	<10	148

Work Order: 064152 **Date:** 18/07/01 **FINAL**

Element.	Cu	Zn	Cd	Pb
Method.	MMI-A	MMI-A	MMI-A	MMI-A
Det.Lim.	5	5	10	20
Units.	ppb	ppb	ppb	ppb
IL4S+175W	43	93	<10	116
*Blk BLANK	<5	<5	<10	<20
*Std MMISRM07	714	9810	25	485
IL4S+200W	40	752	<10	159
IL4S+225W	37	86	<10	236
IL4S+250W	21	1520	<10	341
IL4S+275W	28	1350	<10	250
IL4S+300W	16	116	<10	170
IL6S+400W	46	89	<10	91
IL7S+425W	31	510	<10	209
IL7S+500W	12	77	<10	<20
IL8S+225W	50	628	<10	193
*Dup IBL+25S	50	402	<10	326
*Dup IBL-425S	36	180	<10	430
*Dup IL1S+25E	47	268	<10	230
*Dup IL2S+50W	33	905	<10	199
*Dup IL4S+250W	18	1400	<10	311
*Blk BLANK	<5	<5	<10	<20
*Std MMISRM07	701	9710	22	501

JUL 2 4 2001

XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ontario
Canada M3B 3J4
Telephone (416) 445-5755
Fax (416) 445-4152

CERTIFICATE OF ANALYSIS

Work Order: 064154

To: **Cross Lake Minerals Ltd**
Attn: **Jim Miller-Tait**

240-800 West Pender St.
VANCOUVER
BC/CANADA/V6C 2V6

Date : 18/07/01

Copy 1 to :

P.O. No.	:	
Project No.	:	~~SWANNELL~~ INGENIKA
No. of Samples	:	57 Soil (MMI)
Date Submitted	:	10/07/01
Report Comprises	:	Cover Sheet plus Pages 1 to 2

Distribution of unused material:
Pulps: Store
Rejects: Store

Certified By :

Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

Subject to SGS General Terms and Conditions

Report Footer:
L.N.R. = Listed not received
I.S. = Insufficient Sample
n.a. = Not applicable
-- = No result
*INF = Composition of this sample makes detection impossible by this method
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Work Order: 064154 **Date:** 18/07/01 **FINAL**

Element.	Cu	Zn	Cd	Pb
Method.	MMI-A	MMI-A	MMI-A	MMI-A
Det.Lim.	5	5	10	20
Units.	ppb	ppb	ppb	ppb
IL5S+025E	317	109	<10	85
IL5S+050E	37	158	<10	109
IL5S+075E	29	111	<10	61
IL5S+100E	41	75	<10	97
IL5S+125E	36	503	<10	620
IL5S+150E	48	208	<10	163
IL5S+175E	91	81	<10	124
IL5S+200E	79	30	<10	121
IL5S+225E	22	193	<10	178
IL5S+250E	30	118	<10	217
IL5S+275E	51	88	<10	187
IL5S+300E	40	481	<10	312
IL5S+025W	59	233	<10	151
IL5S+050W	68	344	<10	205
IL5S+075W	51	423	<10	279
IL5S+100W	46	497	<10	1040
IL5S+125W	43	632	<10	176
IL5S+175W	20	1020	<10	306
IL5S+200W	40	536	<10	220
IL5S+225W	37	530	<10	352
IL5S+250W	43	787	<10	366
IL5S+275W	29	535	<10	196
IL5S+300W	28	234	<10	209
IL5S+325W	56	99	<10	165
IL5S+350W	50	159	<10	314
IL5S+375W	40	39	<10	195
IL5S+400W	69	58	<10	201
IL5S+425W	26	289	<10	196
IL5S+475W	26	47	<10	27
IL6S+025E	19	133	<10	<20
IL6S+050E	75	72	13	101
IL6S+075E	41	44	<10	<20
IL6S+100E	26	35	<10	<20
IL6S+125E	10	22	<10	<20
IL6S+150E	17	73	<10	<20
IL6S+175E	<5	420	<10	43
IL6S+200E	<5	1140	<10	25
IL6S+225E	7	227	<10	<20
IL6S+275E	<5	240	<10	<20
IL6S+300E	15	32	<10	<20
IL7S+100E	56	607	<10	445
IL7S+25W	48	149	<10	170
IL7S+125W	85	28	<10	<20
IL7S+200W	21	119	<10	54
IL7S+325W	22	40	<10	205

Element.	Cu	Zn	Cd	Pb
Method.	MMI-A	MMI-A	MMI-A	MMI-A
Det.Lim.	5	5	10	20
Units.	ppb	ppb	ppb	ppb
IL7S+600W	22	651	11	83
*Blk BLANK	<5	<5	<10	<20
*Std MMISRM07	694	9460	27	500
IL8S+75E	33	458	<10	307
IL8S+200W	77	88	<10	205
IL8S+250W	111	201	<10	269
IL8S+325W	56	180	<10	328
IL8S+350W	62	38	<10	43
IL8S+375W	48	83	<10	<20
IL8S+425W	35	122	<10	302
IL8S+475W	13	766	<10	<20
IL8S+500W	90	2530	22	182
IL8S+600W	24	1220	<10	465
IL8S+625W	73	1190	11	91
*Dup IL5S+025E	342	120	<10	67
*Dup IL5S+025W	66	208	<10	133
*Dup IL5S+350W	56	186	<10	277
*Dup IL6S+200E	9	861	<10	<20
*Dup IL8S+250W	100	242	<10	305
*Blk BLANK	<5	<5	<10	<20
*Std MMISRM07	693	9460	28	479

JUL 27 2001

XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ontario
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Telephone (416) 445-5755
Fax (416) 445-4152

CERTIFICATE OF ANALYSIS

Work Order: 064155

To: **Cross Lake Minerals Ltd**
Attn: Jim Miller-Tait

240-800 West Pender St.
VANCOUVER
BC/CANADA/V6C 2V6

Date : 19/07/01

Copy 1 to :

P.O. No. :
Project No. : ~~SWANNELL~~ INGENIKA
No. of Samples : 62 Soil (MMI)
Date Submitted : 10/07/01
Report Comprises : Cover Sheet plus
Pages 1 to 2

Distribution of unused material:
Pulps: Store.
Rejects: Store.

Certified By :

Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

Subject to SGS General Terms and Conditions

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result
*INF	= Composition of this sample makes detection impossible by this method		

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

XRAL Laboratories
A Division of SGS Canada Inc.

Work Order: 064155 **Date:** 19/07/01 **FINAL**

Element.	Cu	Zn	Cd	Pb
Method.	MMI-A	MMI-A	MMI-A	MMI-A
Det.Lim.	5	5	10	20
Units.	ppb	ppb	ppb	ppb
L6S+025W	24	165	<10	97
L6S+050W	<5	545	<10	<20
L6S+075W	<5	310	<10	<20
L6S+100W	<5	191	<10	<20
L6S+125W	12	1260	<10	73
L6S+150W	31	170	<10	180
L6S+175W	<5	19	<10	<20
L6S+200W	<5	26	<10	<20
L6S+225W	16	25	<10	29
L6S+250W	42	43	<10	<20
L6S+275W	35	87	<10	80
L6S+300W	47	182	<10	63
L6S+325W	<5	49	<10	38
L6S+350W	21	29	<10	62
L6S+375W	18	6	<10	<20
L6S+425W	23	74	<10	89
L6S+450W	23	60	<10	99
L6S+475W	33	988	<10	237
L6S+500W	44	81	<10	340
IL7S+025E	65	198	<10	194
IL7S+050E	90	1040	<10	220
IL7S+075E	33	228	<10	229
IL7S+125E	70	135	<10	521
IL7S+150E	26	113	<10	169
IL7S+175E	19	864	<10	221
IL7S+050W	42	31	<10	110
IL7S+075W	38	30	<10	148
IL7S+100W	58	27	<10	84
IL7S+150W	20	25	<10	36
IL7S+175W	81	52	<10	74
IL7S+200E	55	141	<10	133
IL7S+225W	38	60	<10	182
IL7S+250W	34	99	<10	<20
IL7S+275W	50	35	<10	103
IL7S+300W	34	26	<10	47
IL7S+350W	44	67	<10	206
IL7S+375W	16	99	<10	64
IL7S+400W	97	403	<10	382
IL7S+450W	35	708	<10	213
IL7S+475W	86	190	<10	286
IL7S+525W	<5	375	<10	<20
IL7S+550W	45	263	<10	195
IL7S+575W	64	121	<10	272
IL8S+025E	31	299	<10	241
IL8S+050E	18	650	<10	260

Element.	Cu	Zn	Cd	Pb
Method.	MMI-A	MMI-A	MMI-A	MMI-A
Det.Lim.	5	5	10	20
Units.	ppb	ppb	ppb	ppb
IL8S+100E	30	337	<10	217
*Blk BLANK	<5	<5	<10	<20
*Std MMISRM07	535	8020	22	476
IL8S+025W	47	290	<10	270
IL8S+050W	35	91	<10	244
IL8S+075W	46	501	<10	183
IL8S+100W	54	501	<10	243
IL8S+125W	54	427	<10	403
IL8S+150W	103	62	<10	353
IL8S+175W	107	264	<10	388
IL8S+200W	11	82	<10	58
IL8S+225W	28	51	<10	189
IL8S+300W	74	591	13	193
IL8S+400W	46	222	<10	369
IL8S+450W	6	222	<10	31
IL8S+525W	28	284	<10	23
IL8S+550W	15	878	<10	359
IL8S+575W	22	3880	<10	188
IL8S+650W	9	1000	<10	<20
*Dup L6S+025W	21	193	<10	110
*Dup L6S+325W	7	46	<10	45
*Dup IL7S+175E	19	787	<10	196
*Dup IL7S+375W	21	110	<10	76
*Dup IL8S+075W	51	583	<10	223
*Dup IL8S+575W	30	3980	<10	177
*Blk BLANK	<5	<5	<10	<20
*Std MMISRM07	511	7720	18	496

XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ontario
Canada M3B 3J4
Telephone (416) 445-5755
Fax (416) 445-4152

CERTIFICATE OF ANALYSIS

Work Order: 065222

To: **Cross Lake Minerals Ltd**
Attn: Jim Miller-Tait

240-800 West Pender St.
VANCOUVER
BC/CANADA/V6C 2V6

Date : 19/09/01

Copy 1 to :

P.O. No. :
Project No. : Ingenika
No. of Samples : 23 Soil(MMI)
Date Submitted : 12/09/01
Report Comprises : Cover Sheet plus
Pages 1 to 1

Distribution of unused material:
Pulps: STORE
Rejects: STORE

Certified By :

Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

Report Footer:
L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result
*INF = Composition of this sample makes detection impossible by this method
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

XRAL Laboratories
A Division of SGS Canada Inc.

Work Order: 065222 **Date:** 19/09/01 **FINAL**

Element.	Cu	Zn	Cd	Pb
Method.	MMI-A	MMI-A	MMI-A	MMI-A
Det.Lim.	5	5	10	20
Units.	ppb	ppb	ppb	ppb
IL8S+675W	15	59	<10	32
IL8S+700W	32	145	<10	99
IL8S+725W	69	68	12	136
IL8S+750W	91	47	<10	25
IL8S+775W	72	104	<10	49
IL8S+800W	52	179	<10	<20
IL7.5S+600W	26	1590	<10	130
IL7.5S+625W	47	1150	12	222
IL7.5S+650W	17	877	<10	254
IL7.5S+675W	43	525	<10	217
IL7.5S+700W	117	4490	34	87
IL7.5S+725W	43	1040	<10	157
IL7.5S+750W	56	372	<10	218
IL7.5S+775W	31	533	<10	242
IL7.5S+800W	31	277	<10	156
IL8.5S+550W	122	2460	16	660
IL8.5S+575W	62	9730	59	982
IL8.5S+600W	22	2700	14	358
IL8.5S+625W	64	412	24	316
IL8.5S+650W	38	976	14	20
IL8.5S+675W	79	3760	<10	83
IL8.5S+700W	50	258	<10	51
IL8.5S+725W	7	96	<10	<20
*Dup IL8S+675W	14	58	<10	25
*Dup IL7.5S+750W	53	407	<10	257
*Blk BLANK	<5	<5	<10	<20
*Std MMISRM07	777	8970	30	473

XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ontario
Canada M3B 3J4
Telephone (416) 445-5755
Fax (416) 445-4152

CERTIFICATE OF ANALYSIS

Work Order: 066040

To: Cross Lake Minerals Ltd
Attn: Jim Miller-Tait

240-800 West Pender St.
VANCOUVER
BC/CANADA/V6C 2V6

Date : 15/11/01

Copy 1 to :

P.O. No. :
Project No. : Ingenika.
No. of Samples : 68 Soil(MMI)
Date Submitted : 30/10/01
Report Comprises : Cover Sheet plus
Pages 1 to 2

Distribution of unused material:
Pulps: Store
Rejects: Store

Certified By :

Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

XRAL Laboratories
A Division of SGS Canada Inc.

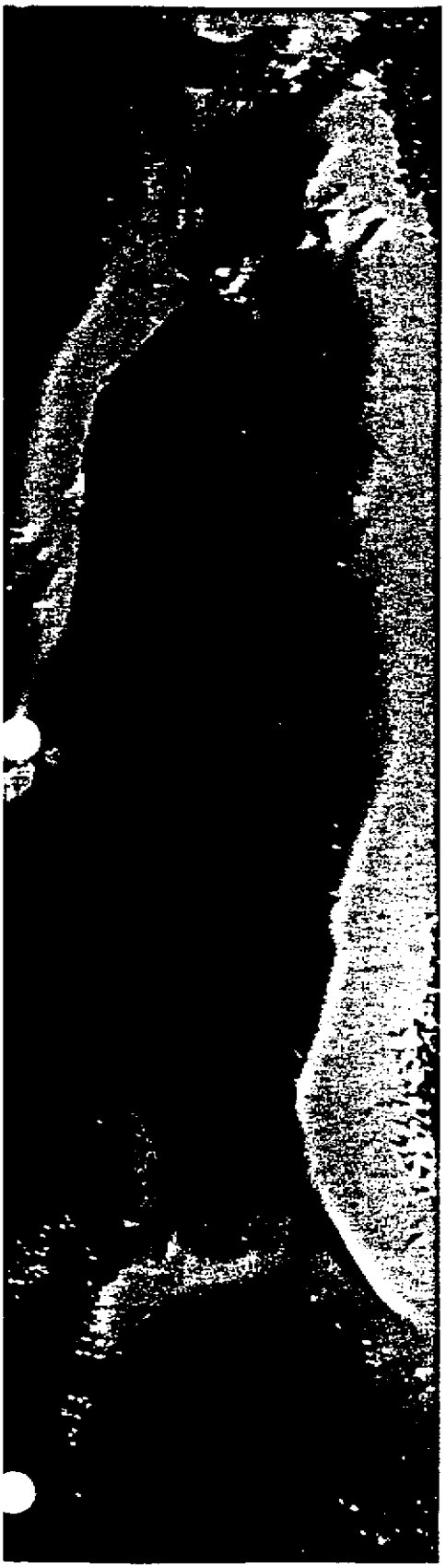
Work Order: 066040 **Date:** 15/11/01 **FINAL**

Element.	Cu	Zn	Cd	Pb
Method.	MMI-A	MMI-A	MMI-A	MMI-A
Det.Lim.	5	5	10	20
Units.	ppb	ppb	ppb	ppb
IL6S+625W	89	59	14	57
IL6S+650W	199	262	20	174
IL6S+675W	110	384	16	<20
IL6S+700W	54	350	<10	333
IL6S+725W	53	402	<10	177
IL6S+750W	80	346	<10	210
IL6S+775W	58	144	<10	143
IL6S+800W	98	1610	<10	123
IL6S+825W	55	1640	18	188
IL6S+850W	38	81	<10	255
IL6S+875W	60	634	17	426
IL6S+900W	38	516	<10	49
IL6.5S+575W	64	226	13	111
IL6.5S+600W	36	68	<10	372
IL6.5S+625W	27	245	<10	248
IL6.5S+650W	73	422	10	118
IL6.5S+675W	81	200	13	323
IL6.5S+700W	58	1070	17	165
IL6.5S+725W	61	1590	<10	304
IL6.5S+750W	17	709	<10	288
IL6.5S+775W	40	1630	<10	251
IL6.5S+800W	37	1150	<10	171
IL6.5S+825W	48	1580	<10	304
IL6.5S+850W	60	2540	13	70
IL6.5S+900W	93	5070	12	238
IL7S+625W	69	154	<10	275
IL7S+650W	57	942	<10	268
IL7S+675W	62	750	<10	162
IL7S+700W	52	1480	15	216
IL7S+725W	51	777	<10	169
IL7S+750W	78	1120	11	358
IL7S+775W	63	763	<10	141
IL7S+800W	71	767	13	187
IL7S+825W	43	799	<10	275
IL7S+850W	49	660	<10	233
IL7S+875W	44	2190	15	430
IL7S+900W	31	2660	<10	1490
IL9S+500W	<5	46	<10	<20
IL9S+525W	133	807	31	185
IL9S+550W	64	597	13	58
IL9S+575W	73	720	25	179
IL9S+600W	54	169	10	105
IL9S+625W	303	166	12	136
IL9S+650W	127	867	27	<20
IL9S+725W	17	262	<10	<20

Element.	Cu	Zn	Cd	Pb
Method.	MMI-A	MMI-A	MMI-A	MMI-A
Det.Lim.	5	5	10	20
Units.	ppb	ppb	ppb	ppb
IL9S+750W	108	196	14	<20
*Blk BLANK	<5	<5	<10	<20
*Std MMISRM07	796	1480	22	326
IL9S+775W	109	217	<10	268
IL9S+800W	135	115	17	98
IL9.5S+450W	77	81	<10	621
IL9.5S+475W	55	400	<10	277
IL9.5S+525W	220	222	12	355
IL9.5S+550W	117	289	<10	106
IL9.5S+575W	73	273	11	152
IL9.5S+600W	62	252	12	118
IL9.5S+625W	67	355	13	68
IL9.5S+650W	52	318	<10	85
IL9.5S+675W	35	110	11	44
IL9.5S+700W	43	121	<10	83
IL9.5S+725W	71	695	12	336
IL9.5S+750W	44	667	<10	183
IL9.5S+775W	58	80	<10	71
IL9.5S+800W	40	451	<10	65
IL6.5S+850WA	48	2970	19	175
IL9S+725WA	61	167	13	<20
IL9S+775WA	38	474	10	21
IL9.5S+475WA	37	163	<10	<20
IL8.5S+500W	<5	1080	<10	<20
IL8.5S+525W	11	347	<10	<20
*Dup IL6S+625W	82	56	14	41
*Dup IL6.5S+575W	58	188	<10	121
*Dup IL6.5S+900W	89	5130	<10	207
*Dup IL7S+900W	26	3010	<10	1240
*Dup IL9.5S+450W	68	77	<10	533
*Dup IL9.5S+775W	49	90	<10	85
*Blk BLANK	<5	<5	<10	<20
*Std MMISRM07	728	1330	24	281

MMI Analysis

Mobile Metal Ions Process



A totally integrated approach to base metal and gold exploration developed by Wamtech, MMI uses a weak partial extraction scheme to improve the conventional geochemical response over buried ore deposits. Its effectiveness has been documented in over 1000 case histories on six continents and includes numerous commercial successes.

The anomalies are sharply bounded and in most cases directly overlie and define the extent of the surface projection of buried primary mineralized zones.

The MMI Process includes a simple sample collection procedure. Samples are collected at 10 to 30 cm below the A° regardless of soil horizon, and there is no sample preparation or drying. It includes analysis of a 50g sample and an innovative interpretation step.

Multi-component extractants are used and metals are determined by ICP/MS in the part per billion range.

Sampling manuals are available from XRAL and should be consulted prior to collection.

Further information is available upon request.

"The New Dawn in Geochemical Exploration"

- ***Method Code:*** **MMI-A**
  Base Metal Suite – Cu, Pb, Zn, Cd,
- ***Price per sample:*** **$21.50**
- ***Method Code:*** **MMI-B**
  Gold Exploration Suite – Co, Au, Ag, Pd, Ni
- ***Price per sample:*** **$21.50**
- ***Method Code:*** **MMI-C**
  Base Metal Suite for samples with elevated carbonate – Cu, Pb, Zn, Cd
- ***Price per sample:*** **$21.50**
- ***Method Code:*** **MMI-D**
  Kimberlite Package – Ni, Co, Pd, Cr, Nb, Rb, Mg, Y, Ti
- ***Price per sample:*** **$21.50**
- ***Method Code:*** **MMI-F**
  Porphyry Pathfinder Suite – As, Hg, Sb, Mo, Se, Fe
- ***Price per sample:*** **$21.50**

ENHANCED DIAMOND EXPLORATION WITH MMI-D

XRAL Laboratories
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From/De: Walter Grondin

Date: August 8/01

Copies:

To/A:
Jim Miller-Tait
1-604-688-5443

Subj./Sujet: Analytical Procedures

FAX TRANSMITTANCE / TRANSMISSION DE FAX

Page(s): 4

XRAL LABORATORIES IS CERTIFIED TO ISO9002

XRAL LABORATORIES
WORK INSTRUCTION

TITLE: ICP Analysis – MMI-A (Mobile Metal Ions Process) **CD# TO-WI-IC-12**
Date: December 3, 1997 **Rev: 02**
Written by: Sorina Oprea **Approved by: P.Burgener**

Process: ICP Lab

Relates to procedure MMI-A

1. **PURPOSE:**

To analyse Cu, Cd, Zn, Pb for samples of geochemical interest after a weak partial extraction with specific extractants.

2. **SCOPE:**

Samples digested in wet lab are analyzed in ICP department on ARL3410 and results are released to data centre after validation.

3. **INSTRUCTIONS:**

MMI-A is performed on ARL3410.

3.1 Starting up procedure - daily - see Appendix I

3.2 Setting up the analysis

3.2.1 Digestion procedure - see Wet Lab Work Instruction TO-WI-SD-12
The matrix is MMI-A solution matrix.

3.2.2 The control sample digested with each batch of samples is SRM02 supplied by WAMTECH.

3.2.3 Following calibration standards, made up in MMI-A solution matrix, as per procedure TO-WI-CH-33
1. Blank
2. High 5 ppm 4 elements: Cu, Zn, Cd, Pb

3.2.4 Software task used in ARL3410 is "MMIA"

3.3 **Setting up autosampler run**
The batch consists of:
- Standards
- Samples to be analyzed
- Drift check solution - approximately 5 ppm of Cu, Zn, Cd, Pb (see procedure for drift) to be checked every 24 samples

3.3.1 **Calibration.**
This step is mandatory for ARL3410 when original calibration has drifted more than 30%.
The calibration is done with the 2 standards using procedure ARL – CD#TO-WI-IC-02, Section 2.1.
Autosampler and sequence calibration "MMIA".

3.3.2 **Automated analysis**

3.3.2.1 Set up autosampler batch in computer. In the same batch, a series of different work orders can be run, one after another, up to 228 samples. For each batch enter the appropriate DF, WO#, method code. Create sequence of samples into a batch using sequence file MMIA.

3.3.2.2 Set up samples in rack as per procedure TO-WI-IC-01.

3.3.2.3 **Start analysis.**
Press "Run Unknown" key, and for overnight run, answer "YES" when asked "Estinguish torch at the end of the run".

3.4 **Report the results** - as per general ICP procedure.

3.4.1 **Getting the printed report**
See CCLASS procedure.

3.4.2 **Validation of results**
Check instrument print out for drift check values. If greater than 15%, update results .
Check blanks, and control sample results (see limits set up by CCLASS)
Check duplicates. If apart more than 20%, redigest the bad duplicate and rerun it.

If new duplicate is similar to original samples in the batch, reject first duplicate.
If new duplicate is similar to old duplicate, redigest and rerun the whole sequence of samples between the two good duplicates.

4. **SAFETY PRECAUTIONS**

When handling the samples, wear gloves and safety glasses.

APPENDIX I

Daily Start-Up Procedure

ARL 3410

1. Quick visual check of the system:
   - Argon supply pressure (no less than 80 psi)
   - Pinch and check cooling water circuit
   - Read PM tube parameters (Attention to "drive voltage" - no higher than 3 V)
   - Check vacuum reading on the vacuum meter (no higher than 10^{-2} torr)
2. Check the cleanliness of the torch, if necessary remove and clean it.
3. Replace peristaltic pump tubing and start up pump. Check for proper sample intake flow (no bubbles on the intake and fog in spray chamber), and check the drain reservoir - empty if necessary.
4. Check washing station. Make sure there is enough 5% HNO_3 solution supply and the waste bottle is empty enough to take the wash solution.
5. Ignite plasma.
6. Warm up instrument for half an hour.

SECTION E: SAMPLE TABLES

Sample Identification, MMI-A Analytical Results and Response Ratios:

Ingenika Property Mobile Metal Ions (MMI) Soil Sample Results:								
May-October 2001					Response Ratios			
Sample Station	Cu_ppb	Zn_ppb	Cd_ppb	Pb_ppb	Cu-MMI	Zn-MMI	Cd-MMI	Pb-MMI
IBL+000S	38	65	5	50	2	2	1	2
IBL+025S	49	378	5	341	3	10	1	13
IBL+050S	23	32	5	143	1	1	1	5
IBL+075S	130	166	5	187	8	4	1	7
IBL+275S	43	749	5	277	3	20	1	10
IBL+300S	12	800	10	151	1	21	2	6
IBL+575S	94	31	5	124	6	1	1	5
IBL+625S	20	20	5	10	1	1	1	0
IBL+675S	113	91	5	189	7	2	1	7
IBL+725S	100	25	5	127	6	1	1	5
IBL+775S	34	486	5	257	2	13	1	10
IBL+800S	65	473	5	195	4	12	1	7
IBL-100S	311	112	5	96	19	3	1	4
IBL-125S	23	31	5	177	1	1	1	7
IBL-150S	42	64	5	278	3	2	1	10
IBL-175S	42	318	5	158	3	8	1	6
IBL-200S	63	278	5	457	4	7	1	17
IBL-225S	44	164	5	203	3	4	1	8
IBL-325S	247	1780	36	420	15	47	7	16
IBL-350S	100	114	5	635	6	3	1	24
IBL-375S	44	700	5	239	3	18	1	9
IBL-400S	71	117	5	252	4	3	1	9
IBL-425S	40	204	5	374	3	5	1	14
IBL-450S	310	98	5	254	19	3	1	9
IBL-475S	53	77	5	122	3	2	1	5
IBL-500S	41	271	5	205	3	7	1	8
IBL-525S	52	165	5	295	3	4	1	11
IBL-550S	92	125	5	286	6	3	1	11
IBL-600S	21	10	5	10	1	0	1	0
IBL-650S	41	928	5	10	3	24	1	0
IBL-700S	58	113	5	196	4	3	1	7
IBL-750S	51	133	5	645	3	4	1	24
ILOS+025E	24	51	12	179	2	1	2	7
ILOS+025W	62	203	10	80	4	5	2	3
ILOS+050E	68	58	13	111	4	2	3	4
ILOS+050W	99	79	16	87	6	2	3	3
ILOS+075E	34	159	5	140	2	4	1	5
ILOS+075W	49	49	13	327	3	1	3	12
ILOS+100E	43	79	5	183	3	2	1	7
ILOS+100W	646	46	5	89	40	1	1	3
ILOS+125E	30	59	5	231	2	2	1	9
ILOS+125W	23	54	5	71	1	1	1	3
ILOS+150E	29	102	5	358	2	3	1	13
ILOS+150W	34	313	12	247	2	8	2	9
ILOS+175E	43	98	5	237	3	3	1	9
ILOS+175W	63	93	13	130	4	2	3	5
ILOS+200E	31	97	5	195	2	3	1	7
ILOS+200W	57	60	5	136	4	2	1	5
ILOS+225E	159	74	13	6390	10	2	3	237

IL0S+250E	30	55	5	153	2	1	1	6
IL0S+275E	51	70	5	140	3	2	1	5
IL0S+300E	52	41	5	74	3	1	1	3
IL0S+325E	29	136	5	98	2	4	1	4
IL1S+025E	53	266	5	250	3	7	1	9
IL1S+025W	22	299	5	10	1	8	1	0
IL1S+050E	41	217	5	178	3	6	1	7
IL1S+050E	20	26	5	136	1	1	1	5
IL1S+050W	16	27	5	49	1	1	1	2
IL1S+075E	39	117	5	317	2	3	1	12
IL1S+075W	22	9	5	39	1	0	1	1
IL1S+100E	23	126	5	37	1	3	1	1
IL1S+100W	15	25	5	10	1	1	1	0
IL1S+125E	38	21	5	10	2	1	1	0
IL1S+125W	16	41	5	10	1	1	1	0
IL1S+150E	31	70	5	32	2	2	1	1
IL1S+150W	25	1150	5	39	2	30	1	1
IL1S+175E	15	65	5	10	1	2	1	0
IL1S+175W	13	10	5	10	1	0	1	0
IL1S+200E	15	45	5	10	1	1	1	0
IL1S+200W	15	2.5	5	10	1	0	1	0
IL1S+225E	78	72	5	94	5	2	1	3
IL1S+225W	12	17	5	10	1	0	1	0
IL1S+250E	17	11	5	10	1	0	1	0
IL1S+250W	17	31	5	10	1	1	1	0
IL2S+025E	112	459	5	231	7	12	1	9
IL2S+025W	25	703	5	154	2	19	1	6
IL2S+050E	33	460	5	163	2	12	1	6
IL2S+050W	37	1060	5	177	2	28	1	7
IL2S+075E	26	353	5	99	2	9	1	4
IL2S+075W	34	33	5	289	2	1	1	11
IL2S+100E	52	310	5	143	3	8	1	5
IL2S+100W	30	71	5	215	2	2	1	8
IL2S+125W	134	3590	11	73	8	94	2	3
IL2S+150E	28	89	5	193	2	2	1	7
IL2S+150W	16	159	5	220	1	4	1	8
IL2S+175E	41	200	5	158	3	5	1	6
IL2S+175W	63	68	5	301	4	2	1	11
IL2S+200E	62	159	5	371	4	4	1	14
IL2S+200W	79	52	5	550	5	1	1	20
IL2S+225E	34	210	5	242	2	6	1	9
IL2S+225W	52	205	5	187	3	5	1	7
IL2S+250E	37	229	5	181	2	6	1	7
IL2S+250W	146	165	5	59	9	4	1	2
IL3S+000E	38	4740	38	319	2	125	8	12
IL3S+025E	36	2610	19	316	2	69	4	12
IL3S+025W	113	201	5	187	7	5	1	7
IL3S+050E	65	1770	5	599	4	47	1	22
IL3S+050W	38	53	5	150	2	1	1	6
IL3S+075E	55	133	5	160	3	4	1	6
IL3S+075W	102	239	5	283	6	6	1	10
IL3S+100E	197	242	5	71	12	6	1	3

IL3S+100W	92	366	5	214	6	10	1	8
IL3S+125E	46	67	5	289	3	2	1	11
IL3S+125W	97	56	5	166	6	1	1	6
IL3S+150E	71	678	5	414	4	18	1	15
IL3S+150W	118	484	5	209	7	13	1	8
IL3S+175E	91	645	5	256	6	17	1	9
IL3S+175W	69	160	5	357	4	4	1	13
IL3S+200E	104	174	5	315	7	5	1	12
IL3S+200W	58	121	5	180	4	3	1	7
IL3S+225E	91	145	5	227	6	4	1	8
IL3S+225W	238	70	5	232	15	2	1	9
IL3S+250E	63	338	5	150	4	9	1	6
IL3S+250W	95	79	5	307	6	2	1	11
IL4S+025E	98	203	5	207	6	5	1	8
IL4S+025W	52	109	5	224	3	3	1	8
IL4S+050W	40	642	5	173	3	17	1	6
IL4S+075E	45	143	5	253	3	4	1	9
IL4S+075W	70	63	5	66	4	2	1	2
IL4S+100E	73	27	5	108	5	1	1	4
IL4S+100W	32	117	5	217	2	3	1	8
IL4S+125E	70	424	5	273	4	11	1	10
IL4S+125W	40	75	5	150	3	2	1	6
IL4S+150E	31	221	5	145	2	6	1	5
IL4S+150W	39	117	5	148	2	3	1	5
IL4S+175E	43	303	5	200	3	8	1	7
IL4S+175W	43	93	5	116	3	2	1	4
IL4S+200E	53	213	5	221	3	6	1	8
IL4S+200W	40	752	5	159	3	20	1	6
IL4S+225E	36	287	5	155	2	8	1	6
IL4S+225W	37	86	5	236	2	2	1	9
IL4S+250E	42	106	5	166	3	3	1	6
IL4S+250W	21	1520	5	341	1	40	1	13
IL4S+275E	42	239	5	384	3	6	1	14
IL4S+275W	28	1350	5	250	2	36	1	9
IL4S+300E	31	247	5	206	2	7	1	8
IL4S+300W	16	116	5	170	1	3	1	6
IL4S+325E	34	732	5	580	2	19	1	21
IL4S+350E	29	518	5	162	2	14	1	6
IL4S+375E	32	75	5	54	2	2	1	2
IL5S+025E	317	109	5	85	20	3	1	3
IL5S+025W	59	233	5	151	4	6	1	6
IL5S+050E	37	158	5	109	2	4	1	4
IL5S+050W	68	344	5	205	4	9	1	8
IL5S+075E	29	111	5	61	2	3	1	2
IL5S+075W	51	423	5	279	3	11	1	10
IL5S+100E	41	75	5	97	3	2	1	4
IL5S+100W	46	497	5	1040	3	13	1	39
IL5S+125E	36	503	5	620	2	13	1	23
IL5S+125W	43	632	5	176	3	17	1	7
IL5S+150E	48	208	5	163	3	5	1	6
IL5S+150W	45	708	5	344	3	19	1	13
IL5S+175E	91	81	5	124	6	2	1	5

IL5S+175W	20	1020	5	306	1	27	1	11
IL5S+200E	79	30	5	121	5	1	1	4
IL5S+200W	40	536	5	220	3	14	1	8
IL5S+225E	22	193	5	178	1	5	1	7
IL5S+225W	37	530	5	352	2	14	1	13
IL5S+250E	30	118	5	217	2	3	1	8
IL5S+250W	43	787	5	366	3	21	1	14
IL5S+275E	51	88	5	187	3	2	1	7
IL5S+275W	29	535	5	196	2	14	1	7
IL5S+300E	40	481	5	312	3	13	1	12
IL5S+300W	28	234	5	209	2	6	1	8
IL5S+325W	56	99	5	165	4	3	1	6
IL5S+350W	50	159	5	314	3	4	1	12
IL5S+375W	40	39	5	195	3	1	1	7
IL5S+400W	69	58	5	201	4	2	1	7
IL5S+425W	26	289	5	196	2	8	1	7
IL5S+450W	32	1510	5	394	2	40	1	15
IL5S+475W	26	47	5	27	2	1	1	1
IL5S+500W	76	128	5	64	5	3	1	2
IL6S+025E	19	133	5	10	1	4	1	0
L6S+025W	24	165	5	97	2	4	1	4
IL6S+050E	75	72	13	101	5	2	3	4
L6S+050W	2.5	545	5	10	0	14	1	0
IL6S+075E	41	44	5	10	3	1	1	0
L6S+075W	2.5	310	5	10	0	8	1	0
IL6S+100E	26	35	5	10	2	1	1	0
L6S+100W	2.5	191	5	10	0	5	1	0
IL6S+125E	10	22	5	10	1	1	1	0
L6S+125W	12	1260	5	73	1	33	1	3
IL6S+150E	17	73	5	10	1	2	1	0
L6S+150W	31	170	5	180	2	4	1	7
IL6S+175E	2.5	420	5	43	0	11	1	2
L6S+175W	2.5	19	5	10	0	1	1	0
IL6S+200E	2.5	1140	5	25	0	30	1	1
L6S+200W	2.5	26	5	10	0	1	1	0
IL6S+225E	7	227	5	10	0	6	1	0
L6S+225W	16	25	5	29	1	1	1	1
L6S+250W	42	43	5	10	3	1	1	0
IL6S+275E	2.5	240	5	10	0	6	1	0
L6S+275W	35	87	5	80	2	2	1	3
IL6S+300E	15	32	5	10	1	1	1	0
L6S+300W	47	182	5	63	3	5	1	2
L6S+325W	2.5	49	5	38	0	1	1	1
L6S+350W	21	29	5	10	1	1	1	0
L6S+375W	18	6	5	10	1	0	1	0
L6S+425W	23	74	5	89	1	2	1	3
L6S+450W	23	60	5	99	1	2	1	4
L6S+475W	33	988	5	237	2	26	1	9
L6S+500W	44	81	5	340	3	2	1	13
IL6S+625W	89	59	14	57	6	2	3	2
IL6S+650W	199	262	20	174	12	7	4	6
IL6S+675W	110	384	16	10	7	10	3	0

IL6S+700W	54	350	5	333	3	9	1	12
IL6S+725W	53	402	5	177	3	11	1	7
IL6S+750W	80	346	5	210	5	9	1	8
IL6S+775W	58	144	5	143	4	4	1	5
IL6S+800W	98	1610	5	123	6	42	1	5
IL6S+825W	55	1640	18	188	3	43	4	7
IL6S+850W	38	81	5	255	2	2	1	9
IL6S+875W	60	634	17	426	4	17	3	16
IL6S+900W	38	516	5	49	2	14	1	2
IL6.5S+575W	64	226	13	111	4	6	3	4
IL6.5S+600W	36	68	5	372	2	2	1	14
IL6.5S+625W	27	245	5	248	2	6	1	9
IL6.5S+650W	73	422	10	118	5	11	2	4
IL6.5S+675W	81	200	13	323	5	5	3	12
IL6.5S+700W	58	1070	17	165	4	28	3	6
IL6.5S+725W	61	1590	5	304	4	42	1	11
IL6.5S+750W	17	709	5	288	1	19	1	11
IL6.5S+775W	40	1630	5	251	3	43	1	9
IL6.5S+800W	37	1150	5	171	2	30	1	6
IL6.5S+825W	48	1580	5	304	3	42	1	11
IL6.5S+850W	60	2540	13	70	4	67	3	3
IL6.5S+875W	48	2970	19	175	3	78	4	6
IL6.5S+900W	93	5070	12	238	6	133	2	9
IL7S+025E	65	198	5	194	4	5	1	7
IL7S+025W	48	149	5	170	3	4	1	6
IL7S+050E	90	1040	5	220	6	27	1	8
IL7S+050W	42	31	5	110	3	1	1	4
IL7S+075E	33	228	5	229	2	6	1	8
IL7S+075W	38	30	5	148	2	1	1	5
IL7S+100E	56	607	5	445	4	16	1	16
IL7S+100W	58	27	5	84	4	1	1	3
IL7S+125E	70	135	5	521	4	4	1	19
IL7S+125W	85	28	5	10	5	1	1	0
IL7S+150E	26	113	5	169	2	3	1	6
IL7S+150W	20	25	5	36	1	1	1	1
IL7S+175E	19	864	5	221	1	23	1	8
IL7S+175W	81	52	5	74	5	1	1	3
IL7S+200E	55	141	5	133	3	4	1	5
IL7S+200W	21	119	5	54	1	3	1	2
IL7S+225W	38	60	5	182	2	2	1	7
IL7S+250W	34	99	5	10	2	3	1	0
IL7S+275W	50	35	5	103	3	1	1	4
IL7S+300W	34	26	5	47	2	1	1	2
IL7S+325W	22	40	5	205	1	1	1	8
IL7S+350W	44	67	5	206	3	2	1	8
IL7S+375W	16	99	5	64	1	3	1	2
IL7S+400W	97	403	5	382	6	11	1	14
IL7S+425W	31	510	5	209	2	13	1	8
IL7S+450W	35	708	5	213	2	19	1	8
IL7S+475W	86	190	5	286	5	5	1	11
IL7S+500W	12	77	5	10	1	2	1	0
IL7S+525W	2.5	375	5	10	0	10	1	0

IL7S+550W	45	263	5	195	3	7	1	7
IL7S+575W	64	121	5	272	4	3	1	10
IL7S+600W	22	651	11	83	1	17	2	3
IL7S+625W	69	154	5	275	4	4	1	10
IL7S+650W	57	942	5	268	4	25	1	10
IL7S+675W	62	750	5	162	4	20	1	6
IL7S+700W	52	1480	15	216	3	39	3	8
IL7S+725W	51	777	5	169	3	20	1	6
IL7S+750W	78	1120	11	358	5	29	2	13
IL7S+775W	63	763	5	141	4	20	1	5
IL7S+800W	71	767	13	187	4	20	3	7
IL7S+825W	43	799	5	275	3	21	1	10
IL7S+850W	49	660	5	233	3	17	1	9
IL7S+875W	44	2190	15	430	3	58	3	16
IL7S+900W	31	2660	5	1490	2	70	1	55
IL7.5S+600W	26	1590	5	130	2	42	1	5
IL7.5S+625W	47	1150	12	222	3	30	2	8
IL7.5S+650W	17	877	5	254	1	23	1	9
IL7.5S+675W	43	525	5	217	3	14	1	8
IL7.5S+700W	117	4490	34	87	7	118	7	3
IL7.5S+725W	43	1040	5	157	3	27	1	6
IL7.5S+750W	56	372	5	218	4	10	1	8
IL7.5S+775W	31	533	5	242	2	14	1	9
IL7.5S+800W	31	277	5	156	2	7	1	6
IL8S+025E	31	299	5	241	2	8	1	9
IL8S+025W	47	290	5	270	3	8	1	10
IL8S+050E	18	650	5	260	1	17	1	10
IL8S+050W	35	91	5	244	2	2	1	9
IL8S+075E	33	458	5	307	2	12	1	11
IL8S+075W	46	501	5	183	3	13	1	7
IL8S+100E	30	337	5	217	2	9	1	8
IL8S+100W	54	501	5	243	3	13	1	9
IL8S+125W	54	427	5	403	3	11	1	15
IL8S+150W	103	62	5	353	6	2	1	13
IL8S+175W	107	264	5	388	7	7	1	14
IL8S+200W	11	82	5	58	1	2	1	2
IL8S+225W	28	51	5	189	2	1	1	7
IL8S+250W	111	201	5	269	7	5	1	10
IL8S+275W	50	628	5	193	3	17	1	7
IL8S+300W	74	591	13	193	5	16	3	7
IL8S+325W	56	180	5	328	4	5	1	12
IL8S+350W	62	38	5	43	4	1	1	2
IL8S+375W	48	83	5	10	3	2	1	0
IL8S+400W	46	222	5	369	3	6	1	14
IL8S+425W	35	122	5	302	2	3	1	11
IL8S+450W	6	222	5	31	0	6	1	1
IL8S+475W	13	766	5	10	1	20	1	0
IL8S+500W	90	2530	22	182	6	67	4	7
IL8S+525W	28	284	5	23	2	7	1	1
IL8S+550W	15	878	5	359	1	23	1	13
IL8S+575W	22	3880	5	188	1	102	1	7
IL8S+600W	24	1220	5	465	2	32	1	17

IL8S+625W	73	1190	11	91	5	31	2	3
IL8S+650W	9	1000	5	10	1	26	1	0
IL8S+675W	15	59	5	32	1	2	1	1
IL8S+700W	32	145	5	99	2	4	1	4
IL8S+725W	69	68	12	136	4	2	2	5
IL8S+750W	91	47	5	25	6	1	1	1
IL8S+775W	72	104	5	49	5	3	1	2
IL8S+800W	52	179	5	10	3	5	1	0
IL8.5S+500W	2.5	1080	5	10	0	28	1	0
IL8.5S+525W	11	347	5	10	1	9	1	0
IL8.5S+550W	122	2460	16	660	8	65	3	24
IL8.5S+575W	62	9730	59	982	4	256	12	36
IL8.5S+600W	22	2700	14	358	1	71	3	13
IL8.5S+625W	64	412	24	316	4	11	5	12
IL8.5S+650W	38	976	14	20	2	26	3	1
IL8.5S+675W	79	3760	5	83	5	99	1	3
IL8.5S+700W	50	258	5	51	3	7	1	2
IL8.5S+725W	7	96	5	10	0	3	1	0
IL9S+500W	2.5	46	5	10	0	1	1	0
IL9S+525W	133	807	31	185	8	21	6	7
IL9S+550W	64	597	13	58	4	16	3	2
IL9S+575W	73	720	25	179	5	19	5	7
IL9S+600W	54	169	10	105	3	4	2	4
IL9S+625W	303	166	12	136	19	4	2	5
IL9S+650W	127	867	27	10	8	23	5	0
IL9S+675W	38	474	10	21	2	12	2	1
IL9S+700W	61	167	13	10	4	4	3	0
IL9S+725W	17	262	5	10	1	7	1	0
IL9S+750W	108	196	14	10	7	5	3	0
IL9S+775W	109	217	5	268	7	6	1	10
IL9S+800W	135	115	17	98	8	3	3	4
IL9.5S+450W	77	81	5	621	5	2	1	23
IL9.5S+475W	55	400	5	277	3	11	1	10
IL9.5S+500W	37	163	5	10	2	4	1	0
IL9.5S+525W	220	222	12	355	14	6	2	13
IL9.5S+550W	117	289	5	106	7	8	1	4
IL9.5S+575W	73	273	11	152	5	7	2	6
IL9.5S+600W	62	252	12	118	4	7	2	4
IL9.5S+625W	67	355	13	68	4	9	3	3
IL9.5S+650W	52	318	5	85	3	8	1	3
IL9.5S+675W	35	110	11	44	2	3	2	2
IL9.5S+700W	43	121	5	83	3	3	1	3
IL9.5S+725W	71	695	12	336	4	18	2	12
IL9.5S+750W	44	667	5	183	3	18	1	7
IL9.5S+775W	58	80	5	71	4	2	1	3
IL9.5S+800W	40	451	5	65	3	12	1	2

SECTION F: ILLUSTRATIONS

Plan Number	Title	Scale
ING-01-1 (after p.5)	General Location Plan	1:250 000
ING-01-2 (after p.5)	Location Plan with Topography	1:50 000
ING-01-3 (after p.5)	Mineral Claims	1:50 000
ING-01-4 (in pocket)	Mobile Metal Ion Soil Geochemistry: Zn Response Ratio, DEL 3 Mineral Claim	1:2 500
ING-01-5 (in pocket)	Mobile Metal Ion Soil Geochemistry: Pb Response Ratio, DEL 3 Mineral Claim	1:2 500
ING-01-6 (in pocket)	Mobile Metal Ion Soil Geochemistry: Cd Response Ratio, DEL 3 Mineral Claim	1:2 500
ING-01-7 (in pocket)	Mobile Metal Ion Soil Geochemistry: Cu Response Ratio, DEL 3 Mineral Claim	1:2 500

DELKLUZ LAKE

clearcut

ONWARD SHOWING

Swannell Forest Access Road

6282933 N
366961 E
Elevi 813 m

L0S

L1S

clearcut

L2S

DEL 3 CLAIM
379607

ONWARD SOUTH SHOWING
Lmst+Sph/Gal in dump
shaft

L3S

clearcut

L4S

L5S

L6S

L7S

L8S

900W 800W 700W 600W 500W 400W 300W 200W 100W BASE LINE 100E

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
J. M. MILLER-TAIT
GEOSCIENTIST
Dec. 4/2001

LEGEND

- Road
- Claim Boundary
- Drainage
- Clearcut Boundary
- Soil Line
- Zn MMI Response Ratio / Zn ppm (soil test line)
- Sample Site

INGENIKA PROPERTY

CROSS LAKE MINERALS LTD.

Mobile Metal Ion (MMI) Soil Geochemistry

Zn MMI Response Ratio

DEL 3 Mineral Claim

NTS:94C11E

Omineca Mining Division

-25 0 25 50 75 100

Drawn by: rgs	Scale: 1:2,500
Date: Dec 2, 2001	ING-01-4

29,794

GICAL SURVEY BRANCH

DELKLUZ LAKE

clearcut

ONWARD SHOWING

Swannell Forest Access Road

6282933 N
366961 E
Elev 813 m

L0S

L1S

clearcut

L2S

DEL 3 CLAIM
379607

ONWARD SOUTH
SHOWING

Lmst+Sph/Gal in dump

shaft

L3S

clearcut

L4S

L5S

L6S

L7S

L8S

BASE LINE

900W 800W 700W 600W 500W 400W 300W 200W 100W 100E

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
J. M. MILLER-TAIT
GEOSCIENTIST

Dec. 2/2001

LEGEND

- Road
- Claim Boundary
- Drainage
- Clearcut Boundary
- Soil Line
- Pb MMI Response Ratio
  Pb ppm (soil test line)
- Sample Site

INGENIKA PROPERTY

CROSS LAKE MINERALS LTD.

Mobile Metal Ion (MMI) Soil Geochemistry

Pb MMI Response Ratio

DEL 3 Mineral Claim

NTS:94C11E

Omineca Mining Division

(2)

-25 0 25 50 75 100

Drawn by: rgs	Scale: 1:2,500
Date: Dec 2, 2001	Fig. ING-01-5

DELKLUZ LAKE

clearcut

ONWARD SHOWING

Swannell Forest Access Road

6282933 N
366961 E
Elev 813 m

L0S

L1S

clearcut

L2S

DEL 3 CLAIM
379607

ONWARD SOUTH SHOWING
Lmst+Sph/Gal in dump
shaft

L3S

clearcut

L4S

L5S

L6S

L7S

L8S

900W 800W 700W 600W 500W 400W 300W 200W 100W BASE LINE 100E

LEGEND

- Road
- Claim Boundary
- Drainage
- Clearcut Boundary
- Soil Line
- Cd MMI Response Ratio Cd ppm (soil test line)
- Sample Site

INGENIKA PROPERTY

CROSS LAKE MINERALS LTD.

Mobile Metal Ion (MMI) Soil Geochemistry

Cd MMI Response Ratio

DEL 3 Mineral Claim

NTS:94C11E

Omineca Mining Division

-25 0 25 50 75 100

Drawn by: rgs	Scale: 1:2,500
Date: Dec 2, 2001	Fig: ING-01-6

DELKLUZ LAKE

clearcut

ONWARD SHOWING

Swannell Forest Access Road

6282933 N
366961 E
Elev 813 m

L0S

L1S

clearcut

L2S

DEL 3 CLAIM
379607

ONWARD SOUTH SHOWING

Lmst+Sph/Gal in dump

shaft

L3S

Cu ppm (soil test line)

clearcut

L4S

L5S

L6S

L7S

L8S

900W 800W 700W 600W 500W 400W 300W 200W 100W BASE LINE 100E

LEGEND

- Road
- Claim Boundary
- Drainage
- Clearcut Boundary
- Soil Line
- Cu MMI Response Ratio
- Cu ppm (soil test line)
- Sample Site

INGENIKA PROPERTY

CROSS LAKE MINERALS LTD.

Mobile Metal Ion (MMI) Soil Geochemistry

Cu MMI Response Ratio

DEL 3 Mineral Claim

NTS:94C11E

Omineca Mining Division

(4)

-25 0 25 50 75 100

Drawn by: rgs	Scale: 1:2,500
Date: Dec 2, 2001	Fig: ING-01-7