Diamond Drilling Report

for

McVicar Minerals Ltd

on their

McVicar Lake Property

in

Northwestern Ontario

September 12, 1997

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SUMMARY

One thousand two hundred metres of thin wall B core was drilled in 10 holes during this program in order to test a number of targets which remained after the BHP exploration program in the area. Five of the holes are located in the Sor Lake area (MV97-1 to MV97-5) which tested the altered Sor Lake Tonalite Sill, and a couple of IP targets on a granite - greenstone contact. An additional five holes in the Lower McVicar Lake area (MV97-6 to MV97-10) tested possible sulphide facies iron formations which were postulated to form possible traps to gold mineralizing fluids.

Some low grade gold values were returned from within quartz veins that contained sulphides in the Sor Lake Tonalite Sill in hole MV97-1. These values averaged 1.65 g/t gold over a true width of 1.75 metres and the host tonalite contained some irregularly distributed anomalous gold concentrations up to 200 ppm. No significant gold concentrations were returned from the other hole (MV97-2) that tested the Sor Lake Sill.

The IP target tested at the north end of the Sor Lake Grid intersected a sequence of intercalated siltstones and mudstones on the contact of a granitic intrusion. No significant assays were returned from either of the two holes that tested the two closely spaced targets (MV97-3 & -4).

One hole targeted to test the east end of the Sor Lake Tonalite Sill intersected a highly sheared and highly altered arenaceous siltstone sequence. Trace amounts of secondary pyrite occur in this hole but only a few samples returned slightly anomalous gold concentrations. Despite the lack of significant assays, the shearing and alteration encountered in this hole are encouraging and further work is recommended in the area.

All five holes in the Lower McVicar Lake intersected a sequence of submarine mafic metavolcanics with local brecciation and alteration intercalated with arenaceous sediments and felsic metavolcanics. The massive and semi-massive sulphide horizons in this sequence are associated with the contacts between mafic metavolcanics and the metasediments but do not appear to form part of a banded iron formation. Rather these sulphide horizons appear to be a favourable environment for VMS base metal deposits. No significant gold mineralization was returned from any of the five holes that tested targets in this area (MV97-6 to -10) but it is recommended that the base metal potential of the area be appraised.

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INTRODUCTION

McVicar Minerals Ltd has leased a property at McVicar Lake from BHP Minerals Canada Ltd. This property covers 5,792 hectares in 275 mineral claims and is located some 80 kilometres west of the town of Pickle Lake in Northwestern Ontario. This is within the Patricia Mining Division and contained within NTS sheets: 52O/11 (McVicar Lake) and52O/12 (Cat Lake).

Access to the property is by fixed wing aircraft or helicopter from Pickle Lake throughout the year, as no roads presently pass close to the property. In the past, all field activities have been based out of a camp near the eastern end of McVicar Lake. During the coarse of this drill program a new camp was established on the northeastern shore of Sor Lake which is located immediately west of McVicar Lake. All that is left at the old camp on McVicar Lake is a 14' boat and floors for a number of tents. Most of these floors are now rotten and useless.

Previous work in the area, together with a property description are documented by Waldie (1994) and Cargill and Gow (1997).

GENERAL GEOLOGY

The property is centred on the western end of the Lang Lake Greenstone Belt, where it is truncated by the northwest trending Bear Head Fault Zone (Figure 1). The Bear Head Fault (BHFZ) is a regional "left lateral" fault and the western extension of the Lang Lake Greenstone Belt is the Meen-Dempster Greenstone Belt. This latter greenstone belt hosts the now abandoned Golden Patricia Mine which produced 0.554 million ounces of gold from 1,046,700 tonnes of ore at an average grade of 17.2 g/t between 1992 and 1997. Structurally the Golden Patricia Mine is located on a sigmoidal structure adjacent to the Bear Head Fault Zone. Both the Lang Lake and Meen-Dempster Greenstone Belts plus adjacent granites form part of the Uchi Subprovince within the Archean Superior Province (Stott and Corfu 1991).

Isoclinally folded metavolcanic and metasedimentary rocks, intruded by mafic and felsic plutons, form the Lang Lake Greenstone Belt. Within the supracrustal rocks, a tentative regional stratigraphic column has been recognized (Table 1); tholeiitic basalts occur in pillowed and massive flows and are overlain by calc-alkaline dacitic pyroclastic rocks and metasediments (Scott and Corfu 1991, Waldie 1994). The sedimentary rocks at McVicar Lake are not part of the unconformable Billet Lake Assemblage but rather a wacke dominated sequence with intercalated banded iron formations which are more widespread east of the property and in the immediate Lang Lake area in the northwestern part of the property. These supracrustal rocks are intruded by discordant gabbro and anorthositic gabbro plutons that are elongated parallel to the overall trend of the greenstone belt. Subsequent to these mafic intrusions, the whole assemblage was intruded by the regional Dobie Batholith, then smaller granite and tonalite plutons.

From the aeromagnetic data (Figures 4 *in* Diorio 1993 and Figure 3 *in* Waldie 1994) it can be interpreted that there are a number of distinct phases to the metavolcanic - metasediment

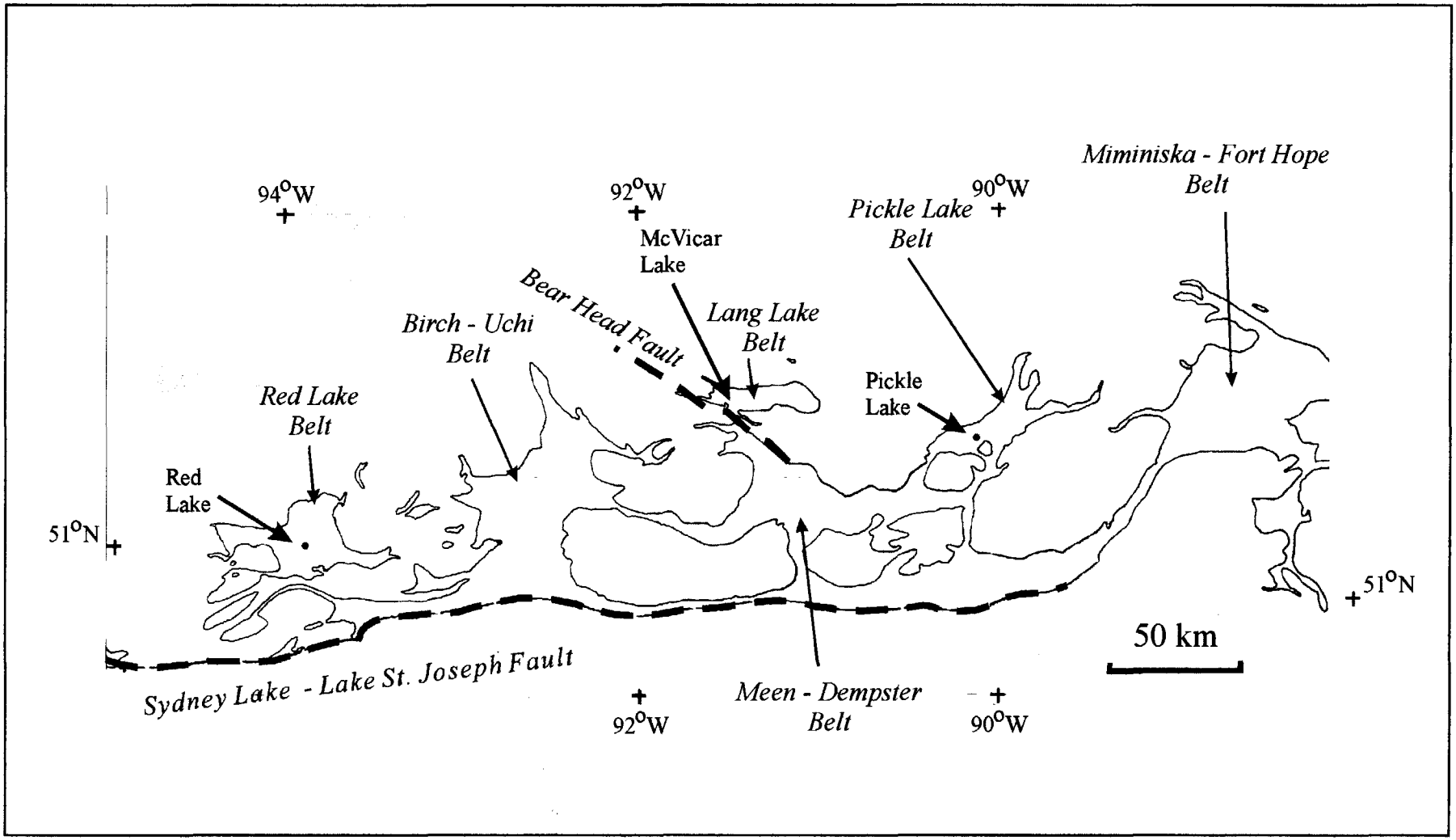

Figure 1
Location of the McVicar Lake Property in the Greenstone Terrain of the Uchi Lake Subprovince.
The geology map is modified from Stott and Corfu (1991)

AGE	GROUP	LITHOLOGY / TECTONISM
ARCHEAN		
		Tonalite Granite
	Intrusive	....
		North Flexure, Altered Zone, brecciated basalt/gabbro, fault gouge
	Tectonism	- - - - - - - - - - - -
		Dobie Lake Batholith
	Intrusive	....
		Gabbro Anorthositic gabbro
	Intrusive	....
	Billett Lake	Greywacke Mudstone Banded Ironstone
	Unconformity	▬▬▬▬▬▬▬▬▬▬▬▬
	Confederation Assemblage	Dacite Basalt

Table 1 Stratigraphic Column, McVicar Lake Property. (Taken from Waldie 1994 who modified the column by Sage and Breaks 1975, Stott and Wallace 1984, Thomas 1988).

sequences within the Lang Lake Greenstone Belt. The greenstone belt contains a folded sequence of banded supracrustal rocks with high magnetic contrast north of Lang Lake separated from similar supracrustals with the same magnetic banding east of Shonia Lake by a terrain with a relatively "flat" magnetic expression. These different magnetic signatures may be due to differing geochemical metavolcanic suites, e.g. Fe Tholeiitic and Calc Alkaline metavolcanics, with possible intercalated metasediments in the high contrast terrains.

STRUCTURE

Isoclinal folding and major crustal faults are the two dominant structural features related to the gold mineralization in the area. The isoclinal folding has an axial plane trending roughly east-west passing close to the "Altered Zone" mineralization at the east end of McVicar Lake. Younger felsic

metavolcanic and metasedimentary rocks occur in the core of this fold and which indicate that the isocline is a syncline plunging to the east.

Three regional faults have been recognized on the property by Waldie (1994), Diorio (1993) and Cargill and Gow (1997) which are labelled 1) Bear Head Fault or BH1, 2) Lower McVicar Fault or BH2, and 3) Altered Zone Fault or BH3. These faults are related to each other, and subdivide the greenstone belt into distinct structural domains (Diorio 1993).

Between the Bear Head and Lower McVicar faults, the supracrustal rocks are folded into "S" shaped sigmoidal folds and splay faults. This would suggest that the movement along the faults had a "right lateral" motion in contradiction to the "left lateral" sense indicated by the regional displacement of the greenstone belt. Within this structural domain there are a number of gold prospects, including: 1) Chellow Vein, 2) AGM Zone, 3) Jay Zone, 4) Sor Lake Sill, and to the southeast of the property, 5) the Golden Patricia Mine.

The Altered Zone Fault is roughly coincident with the axial plane of the regional isoclinal fault though is generally discordant to the axial plane. Three gold prospects are associated with this fault which are:- 1) Altered Zone, 2) North Flexure, and 3) Shonia prospects.

MINERALIZATION

The gold mineralization that has been explored for by BHP and others in the area is associated with quartz veining associated with strong shearing and alteration. Alteration is typically characterized by the formation of sericite, calcite, ferroan dolomite and pyrite. There is also a strong association between the amount of secondary pyrite and gold mineralization (Waldie 1994). The rocks affected by this alteration include both the supracrustal rocks and the intrusive tonalites within the greenstone belt.

Basically three generalized gold targets were to be tested in this drill program. Firstly the Sor Lake Sill which has been interpreted to have anomalous gold concentrations in an altered zone within tonalite some 100 to 300 metres wide by 2 kilometres long and in which a low grade - high tonnage deposit could be hosted. Secondly, IP anomalies coincident with granite - greenstone contacts northeast of Sor Lake. Thirdly, at Lower McVicar Lake a series of sulphide facies iron formations have been inferred to occur striking parallel to the Lower McVicar Fault Zone and related Apple Green Mica (AGM) alteration zone. It has been speculated that these sulphides could be a trap for gold mineralizing fluids (Waldie 1994).

In the past, base metal mineralization has also been sought in the area. At Lower McVicar Lake previous exploration by Kenlew Mines Limited in 1959 had discovered some chalcopyrite, pyrrhotite, pyrite mineralization along the south shore. This mineralization was tested in trenching and five diamond drill holes for a total of 1,175 feet (Fenwick 1971). Subsequently Pickle - Patricia Exploration Ltd explored and drilled to the southeast of Lower McVicar Lake in 1962 as did Duration Mines in 1987. In all three cases no locations are available for any of this drilling on the Government ERLIS system.

DRILL PROGRAM

The drill contract was let to W.G. Langley of Brampton, Ontario who used a JKS 300 drill with BDBGM Rods (Thin wall "BQ"). Typical hole depth was 100 metres which generally took 2 days to drill and drill moves were achieved using a helicopter. Half a shift or more was usually lost waiting for a helicopter to move the rig, then a night shift was also lost while the crews rested after the move.

Drilling was carried out on the old BHP Semia Lake and Sor Lake grids both of which are still in relatively good shape. However, because of the age of the grid, the blazing along the grid lines is now blending with the multiple ages of staking that have occurred in the past.

Drill core was examined and split at the Sor Lake camp site. The split core was shipped to the Chemex Labs Ltd prep facility at Thunder Bay Ontario and then analysed at the Chemex laboratory in Mississauga, Ontario. Sample preparation consisted of preparing a 200 gramme pulp in a two stage crushing procedure, initially a jaw crusher followed by a ring mill. A 30 gramme charge from the pulp of each sample was then analysed using Fire Assay techniques with an Atomic Absorption finish. The detection limit of this analytical methodology is 5 ppb. Though some rocks intersected have a base metal potential, no base metal assays were requested. Despite this, all zones of base metal interest have been split and submitted for gold assay.

The remaining core after sampling has been left at Sor Lake in a crib. The previous core drilled by BHP is stored in seven racks at the old camp site on McVicar Lake. One of these racks which is of bush construction, has collapsed though some of the core could be salvaged. The other racks which are made of 4x4 lumber and steel are still standing.

RESULTS

A total of 1,209.7 metres were drilled in 10 holes during the program. Five holes in the Sor Lake area (MV97-1 to MV97-5) and five holes in the Lower McVicar Lake area (MV97-6 to MV97-10). Drill logs and sections are included in Appendix I, with assays included in Appendix II and the results are summarized below. The general location of the drill holes are shown in Figures 2 and 3 and for detailed setting of each hoe reference is made to the geology maps by Waldie (1993) and geophysic maps by Diorio (1993).

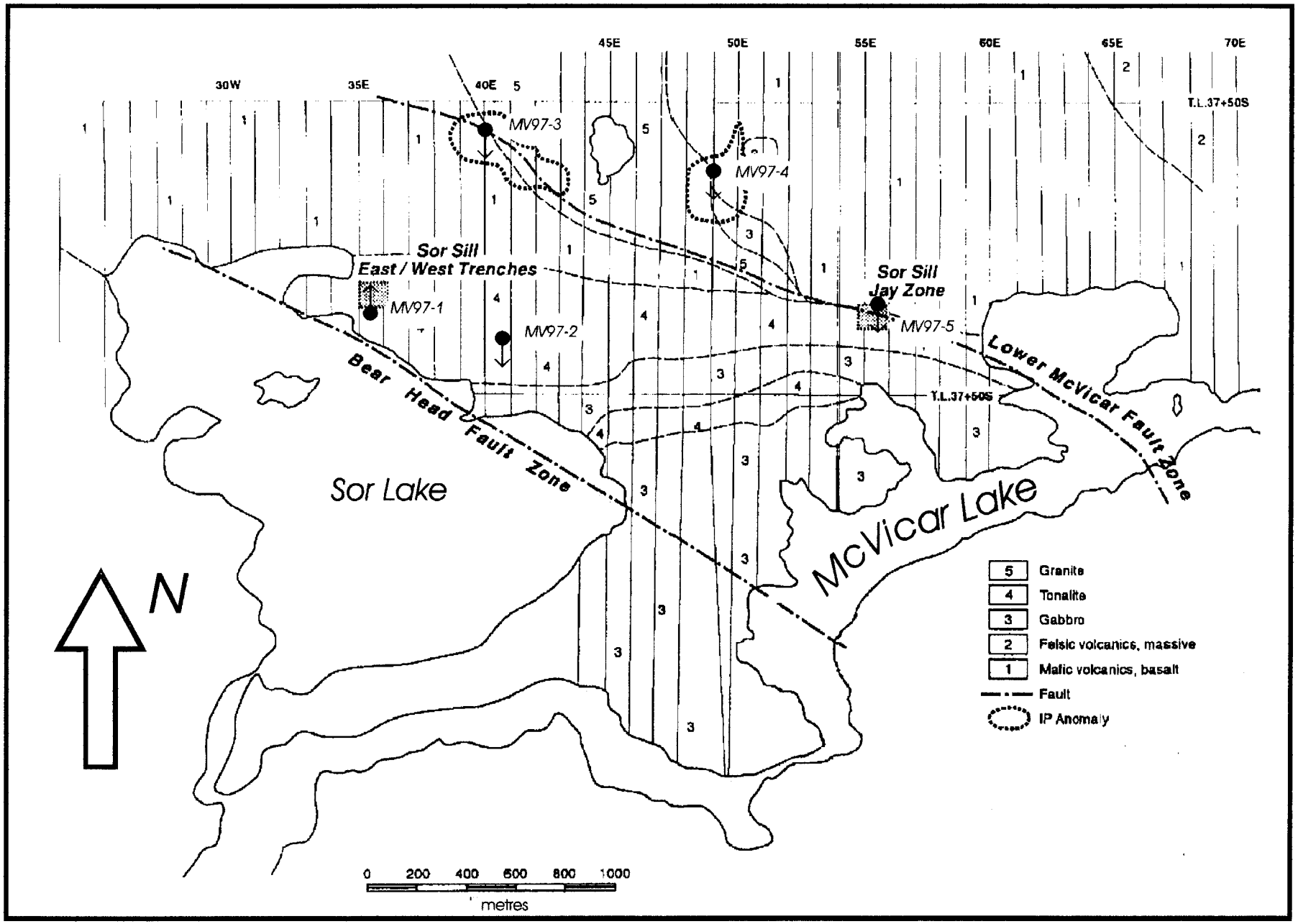

Figure 2

Location of Diamond Drill Hole MV97-1 to MV97-5 on the Sor Lake Grid relative to the IP anomalies and trenching reported Diorio (1993) and Waldie (1994). Figure adapted from Cargill and Gow (1997)

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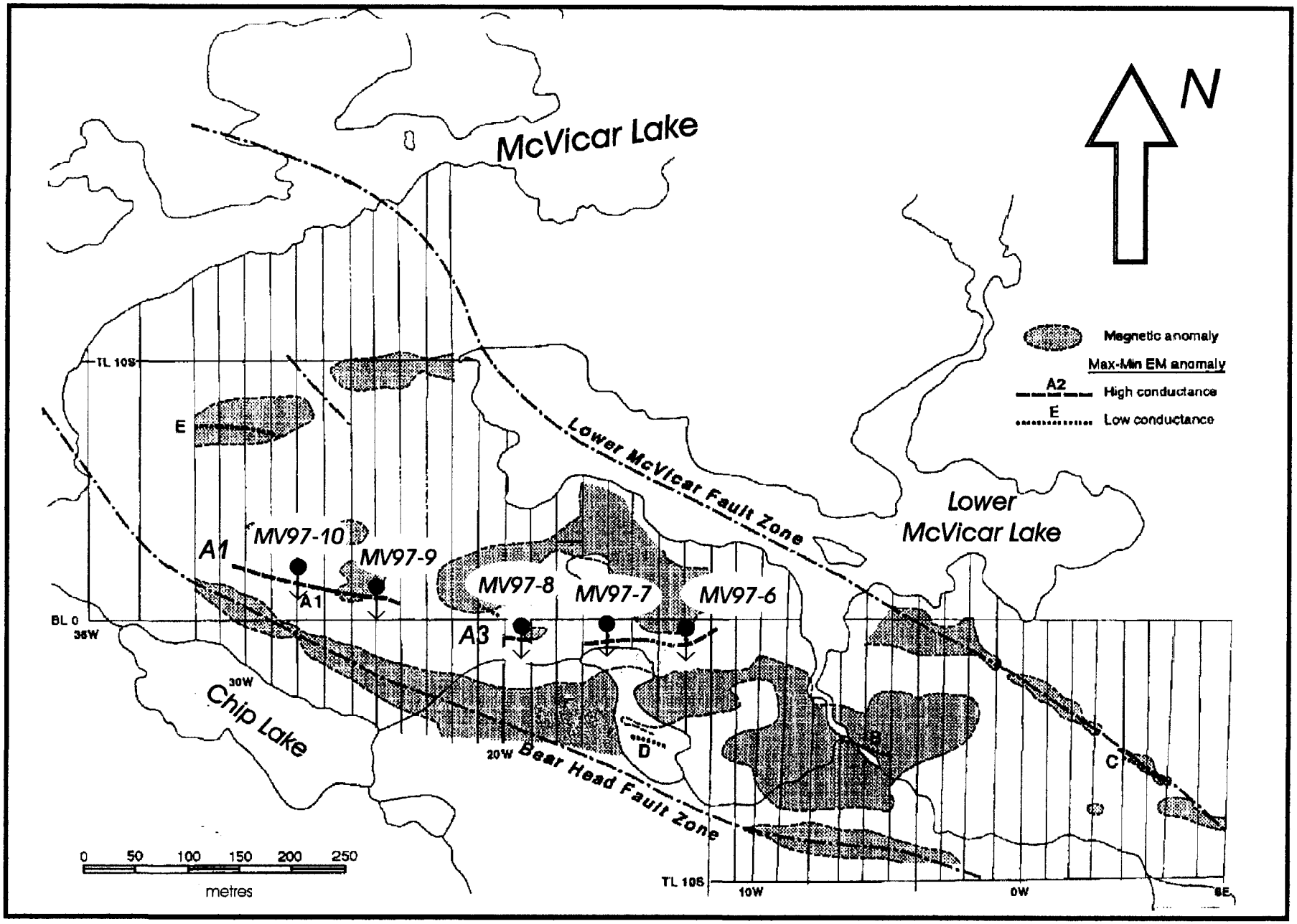

Figure 3

Location of Diamond Drill Holes MV97-6 to MV97-10 on the Semia Lake Grid relative to the EM and Magnetic anomalies reported by Diorio (1993). Figure adapted from Cargill and Gow (1997)

Sor Lake Area

MV97-1

L35+20E / 45+30S @ -45° grid north, 100.3 metres.
Originally proposed set-up L35+50E / 44+60S @ -50° grid south

Target: Altered tonalite forming part of the Sor Lake Sill and associated with smoky quartz veins up to 2 metres wide that locally form up to 20% of the outcrop. 2-5% pyrite occurs within the quartz veining and the best assay in channel samples across the quartz veining was 3.8 g/t Au. The set-up was moved to the south of the target as the veining and foliation in the host tonalite varied between 85°S and 90°. The set-up was also moved west a bit to undercut the largest vein exposed at surface which has been extensively tested with deep trenches. In this location there is a cross veining trending 330° within the dominant direction of 070°.

Results: The hole intersected a weakly to moderately altered sericitized and locally carbonatized tonalite. This tonalite contains a number minor shear zones and small quartz veins scattered throughout the hole. Though two larger quartz veins were intersected between 34.9 to 41 metres which contain some massive pyrite and some chalcopyrite. These veins correlate with the veins exposed on surface and explored by an old set of deep trenches.

Assay results confirm a generally anomalous gold concentration in the altered tonalite of 10 to 100 ppb being common but higher concentrations are rare and irregularly distributed. The resilicified crackle quartz veining intersected in the hole contains some low grade gold mineralization with an average gold grade of 1.65 g/t over a true width of 1.75 metres

MV97-2 23 Gram Zone

L40+35E / 46+22S @ -45° grid south, 200.9 metres.
Originally proposed set-ups L40+80E / 46+10S @ -50° grid south
L40+80E / 46+70S @ -50° grid south

Target: The northern part of a strongly altered tonalite with minor disseminated cubic pyrite and quartz veining. In this area the gold concentration correlates with the pyrite abundance. Average gold content in surface grab samples in the area is 2-3 g/t with a maximum value of 23.3 g/t Au. The two holes originally proposed were reduced to one as the original holes formed a "toe to heal section" and by drilling one 200 metre hole rather than two 100 metre holes the same package of rocks would be tested. This would eliminate a drill move and associated lost time. The set-up was also moved west to undercut the best structure on surface and moved south to avoid unsuitable ground for a set-up.

Results: Like the first hole, this hole intersected weakly to moderately altered sericitized and locally carbonatized tonalite and also the tonalite - greenstone contact. This altered tonalite contains a number minor shear zones and small quartz veins and secondary pyrite scattered throughout the hole.

Despite the apparently favourable alteration and secondary pyrite mineralization, the best assay result returned from this hole is 105 ppb Au and not associated with any quartz veining or significant sulphide mineralization. The second highest result is 70 ppb Au associated with higher pyrite concentrations though the gold concentration in adjacent samples is below detection levels.

MV97-3 IP West
L40+00E / 38+25S @ -45° grid south, 100.3 metres

Target: A strong IP chargeability response flanking a moderately magnetic structure correlated with the inferred Lower McVicar Fault Zone on a contact between granite and mafic metavolcanic rocks.

Results: The upper part of the hole passed through a megacrystic granodiorite with abundant fine grained magnetite which explains the flanking magnetic anomaly associated with the IP anomaly. Lower in the hole a sequence of intercalated arenaceous siltstones and mudstones were intersected rather than the expected mafic metavolcanics. Associated with these metasediments is widespread disseminated pyrite which occurs in four modes. 1) as thin lamellae parallel to the bedding which may have formed during diagenesis, 2) fine grains of secondary pyrite disseminated in the matrix, 3) discordant and discontinuous trails of secondary pyrite, and 4) coarser grains in the small quartz / calcite veinlets. The abundance of secondary pyrite explains the IP anomaly but no gold assays above the 5ppb detection limit were returned from these rocks which is discouraging.

MV97-4 IP East
L49+00E / 40+25S @ -50° grid south, 185.3 metres

Target: The northern part of a large and strong IP chargeability response associated with the inferred contact between granite and mafic metavolcanic. The anomaly is located in an area with old trenches which returned slightly anomalous gold values. Two holes were originally proposed on this anomaly but this was reduced to one as the original holes formed a "toe to heal section" and by drilling one 200 metre hole rather than two 100 metre holes the same package of rocks would be tested and eliminate a drill move and associated lost time.

Results: From top to bottom, this hole intersected a siltstone and mudstone sequence similar to that intersected in hole MV97-3, though the amount of secondary pyrite is

considerable less. However, like in hole MV97-3 the gold assay values are below the 5 ppb detection level.

MV97-5 Jay Zone
L55+80E / 45+50S @ -45° grid south, 109.4 metres
Originally proposed set-up L55+80E / 45+75S @ -50° grid south

Target: Strong sericite alteration in sheared tonalite with centimetre to decimetre quartz veins which contain minor pyrite and chalcopyrite associated with weak iron carbonate. The shearing trends 110°/80° N. Previous best assay in the area was a 2.5 g/t Au in a channel sample. The set-up was moved north to step back 60 metres from the best reported mineralization in the vein.

Results: Highly sheared and altered rocks were intersected from top to bottom in this hole. Cataclastic textures are dominant, though the protolith where even slightly discernable is consistently a fine sandstone to siltstone. Within the sheared rocks, some less deformed intersections and trace amounts of secondary pyrite do exist. Despite the extensive shearing, alteration and secondary pyrite, all features favourable to gold mineralization, only two assays from this hole exceeded the 5 ppb detection levels. These two higher values of 190 and 45 ppb are adjacent to each other in a narrow zone where there is an elevated pyrite concentration adjacent to a quartz vein. The shearing and alteration alone can be considered encouragement for further work in the area.

The surface outcrops were re-examined because of the discrepancy between the original outcrop description and the drill log. It was found that the original showing has a central leuco-tonalite sill emplaced in arenaceous sediments. The sill is 2 - 3m thick and attenuated along strike with some shearing on the contacts. This shearing which also hosts the mineralized quartz veins, dips steeply both to the north and south. Other outcrops in the area are arenaceous with no observed tonalite and shearing which is less apparent, dips to the south.

Semia Lake or Lower McVicar Lake Area

MV97-6 A4 Zone
L13+00W / 0+30S @ -50° grid south, 121.6 metres
Originally proposed set-up L13+00W / 0+40S @ -50° grid south

Target: A Max-Min anomaly with a high conductivity, indicative of massive sulphdes and off-set from a small cliff face which suggests that there is also a fault zone associated with the anomaly. This fault may be a splay of the nearby Bear Head Fault Zone and off-set from the auriferous Chellow Vein which is located to the east. The

main cause of the anomaly is postulated to be sulphide facies iron formations. The set-up was moved north 10 metres to a flat spot near the crest of the hill.

Results: The Max-Min geophysical survey indicates that the rock sequence intersected in holes MV97-6 and MV97-7 are the same and the general impression is that this is so. The apparent difference between the logs for the two holes is greater than reality. Both holes intersected two widely spaced horizons of massive and semi-massive sulphides. In these horizons pyrrhotite primarily occurs with some secondary recrystallized, coarser pyrite and rarer chalcopyrite in thin fractures. These horizons occur within a mafic metavolcanic sequence, are not laminated as would be expected of banded iron formation. The apparent difference between the two holes is in an fine grained siliceous unit towards the bottom of each hole.

In both holes a thin siliceous horizon occurs above the lower conductor. In both holes this unit's identification is problematic though in each case is thought to be a recrystallized felsic metavolcanic. In hole MV97-6 the lower sulphide horizon occurs within a unit that has been brecciated prior to recrystallization. In hole MV97-8 the sulphide horizon is located in the hanging wall of highly altered mafic pillowed flows whose macroscopic appearance resembles the brecciated siliceous unit in hole MV97-6 which was interpreted as a felsic metavolcanic.

In either case the high degree of alteration and brecciation are favourable indicators of a volcanic massive sulphide environment. The gold assay values returned from hole MV97-6 are discouraging for a gold play, but the samples should be re-assayed to determine the base metal concentrations.

MV97-7 A4 Zone
L16+03W / 0+23S @ -50° grid south, 121.6 metres, 121.6 metres
Originally proposed set-ups L16+00W / 0+25S @ -50° grid south

Target: A Max-Min anomaly with a high conductivity indicative of massive sulphdes and off-set from a small cliff face which suggests that there is also an associated fault zone. This fault may be a splay of the nearby Bear Head Fault Zone and off-set from the auriferous Chellow Vein. Again the main cause of the anomaly is thought to be sulphide facies iron formations. The set-up was moved north 10 metres to a flat spot near the crest of the hill.

Results: The general results for this hole are described together with hole MV97-6 above, though in addition there is extensive secondary pyrite mineralization associated with the altered pillowed flows in the footwall of the lower sulphide horizon. This pyrite is part of the alteration assemblage but is not associated with any gold mineralization.

MV97-8 A3 Zone
L19+24W / 0+14S @ -50° grid south, 91.1 metres
Originally proposed set-up L19+25W / 0+25S @ -50° grid south

Target: A short Max-Min anomaly along strike from the "A4 Zone" and off-set from the same small cliff face and fault zone as in the "A4 Zone". This fault may be a splay of the nearby Bear Head Fault Zone and off-set from the auriferous Chellow Vein. The set-up was moved north 10 metres to a flat spot near the crest of the hill.

Results: A similar package of rocks was intersected in this hole as in holes which suggests that the "A3" electromagnetic anomaly could be a strike extension of the "A4" with two EM conductors being intersected in a mafic volcanic suite of rocks. The hole ended in a problematic siliceous unit with characteristics of both a siltstone and a felsic metavolcanic breccia. Based on observations in hole MV97-10 this unit may best be interpreted as a recrystallized, arenaceous siltstone - sandstone which has undergone some alteration. This alteration does not appear to be related to any tectonism. The massive sulphide horizons are associated with the siliceous unit near the contact with mafic metavolcanic rocks. No anomalous gold concentrations occur in any of the samples from this hole.

MV97-9 A1 Zone
L24+98W / 1+32N @ -50° grid south, 88.1 metres

Target: A short Max-Min anomaly along strike from both the "A4 Zone" and "A3 Zones" The strong conductivity and regional alignment of this anomaly together with the other anomalies to the east indicate that the cause is probably a sulphide facies iron formation.

Results: During the drilling of this hole an old drill set-up was found some 60m west and apparently testing the same target. It is not known who did the drilling and logs could not be found but it is suspected that Kenlew Mines (1959) or its successors Pickle Patricia Exploration Ltd (1962) or Duration Mines (1987) were involved.

Together with hole MV97-10 which tested the same target an intercalated sequence of mafic metavolcanics and siltstone - sandstone beds (siliceous unit) were intersected. Like hole MV97-8 the massive sulphide horizons are associated with these sediments and adjacent to mafic metavolcanic flows which are locally pillow flows. No gold values above the 5 ppb detection level were returned for any of the samples.

MV97-10 A1 Zone
L27+98W / 2+02N @ -50° grid south

Target: This hole together with MV97-10 is designed to test the western extension of a short Max-Min anomaly along strike from both the "A4 Zone" and "A3 Zones"

Results: The general results for this hole are described together with hole MV97-9 above and again no gold values above the 5 ppb detection level were returned for any of the samples.

RECOMMENDATIONS

Any additional exploration of the altered tonalite in the Sor Lake Sill should include a geological re-interpretation carried out in conjunction with small scale outcrop stripping. This should permit a more accurate delimitation of the intrusive. Also during the stripping, the altered tonalite should be extensively sampled in addition to sampling any of the small quartz veins that may occur. This would permit a more accurate appraisal of the low grade - large tonnage potential of the Sill prior to any additional drilling in the area.

No further work is recommended to explore the IP anomalies which occur at the north end of the Sor Lake grid and tested with holes MV97-3 and MV97-4.

The highly sheared and altered rocks intersected in hole MV97-5 are favourable hosts for gold mineralization and it is warranted to explore along strike for gold mineralization. This exploration could initially take the form of additional prospecting and sampling in the area combined with an IP survey in which higher "n" values are surveyed compared to the BHP survey so there is greater resolution and depth penetration.

The geological environment in the Lower McVicar Lake area would appear to be more favourable for base metal VMS deposits than gold mineralization. Therefore, it is initially recommended that the samples collected in this drill program be re-analysed for their base metal concentrations. This should be followed by a re-interpretation of the BHP "EM" and magnetic data to define various possible VMS targets.

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APPENDIX I

DIAMOND DRILL LOGS

McVicar Minerals

Diamond Drill Log

Project	McVicar Lake
Area	McVicar Lake
Hole	MV97-1
Core Size	BDBDGM
Date started	1st August 1997
Date finished	4th August 1997
Geologist	Stew Fumerton
Drill Company	W.G. Langley

Collar Co-ordinates

	Grid	UTM
Grid	Sor Lake	
Easting	L35+20E	
Northing	45+30S	
Elevation		
Depth	100.3 m	
Overburden	13 m	
Units	Metres	

Survey

	Direction	Inclination
Surface	Grid N	45
100m		42

Instrument

Acid Uncorrected 50 deg

Casing 45' of BW casing inserted, and removed upon completion of the hole.

JKS300 drill rig used.

Reason drilled To test a set of auriferous quartz veins sampled in trenches, extensive early trenches exist and recent channel samples have returned ore grade values associated with quartz veins and adjacent disseminated sulphides

Results The target quartz vein was intersected and is part of a set which combined, have a true width of 5 metres. Though the combined set of veins is anomalous in gold only part of the upper vein has assays over 1 g/t.

Skeleton Log

From m	To m	Lithology
0.00	13.00	Overburden
13.00	19.25	Weathered Tonalite
19.25	34.90	Tonalite
34.90	38.50	Quartz Vein
38.50	40.70	Tonalite
40.70	41.00	Quartz Vein
41.00	72.70	Altered Tonalite
72.70	75.20	Shear in Tonalite
75.20	89.80	Tonalite
89.80	96.45	Altered Tonalite
96.45	96.80	Mylonite
96.80	100.30	Altered Tonalite

Significant Assays

From m	To m	Value g/t
36.00	37.00	1.900
37.00	38.00	1.465
38.00	38.50	1.520
40.70	41.00	0.770
86.20	87.00	0.500

McVicar Minerals **Project** **McVicar Lake** **Page 2 of 5**

Diamond Drill Log **Hole** **MV97-1**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	serl-cite 0-3	CO3 0-3	Mineralization py %	cpy %	hm %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
11		**0-13m Overburden**													
2		Sandy till overlying assorted boulders													
3															
4		**13-19.25m Weathered Tonalite**	**<1**	**4**	**0**	**0**									
5		Buff shades on green -off white, fine													
6		grained tonalitegrained tonalite													
7		14.2-14.7m lithified sand seam													
8		15.8-16.6m lithified sand seam													
9		17.9-119.25m lithified sand seam													
20		**19.25-34.9m Tonalite**	**2**	**4**	**1**	**0**	**3**	**0**	**0**	19.25	20.30	1.05	743201	0.185	
1		Pale green to off white, 1-2 mm grains													
2		with a spotty appearance due to Hble +													
3		some chlorite. <<1 mm subhedral pyrite													
4		disseminated in matrix. Locally sericte													
5		occurs in fine anatomizing trails of													
6		variable intensity, giving a coarse grain													
7		flaser like texture. Coarser pyrite occurs								26.00	27.00	1.00	743202	0.050	
8		along these trails. Quartz veins are up													
9	25	to 4cm thick with diffuse margins @ 25													
30		degrees to core and locally associated								29.00	30.00	1.00	743203	0.360	
1		with discontinuous pyrite trails.													
2															
3		33-34.9m sericitic alteration zone with								32.00	33.00	1.00	743204	<0.005	
4	60	disseminated. Foliation 60 degrees to	**1**	**5**	**2**	**0**	**5**	**0**	**0**	33.00	34.00	1.00	743205	0.030	
5		core.								34.00	34.90	0.90	743206	0.025	
6		**34.9-38.5m Quartz Vein**	**90**	**6**	**0**	**0**	**6**	**0.5**	**2**	34.90	36.00	1.10	743207	0.245	
7		Resilicified crackle vein with massive Py								36.00	37.00	1.00	743208	1.900	
8		veins up to 4cm + disseminated Py &								37.00	38.00	1.00	743209	1.465	
9		sparse Cpy + specularite, vuggy,								38.00	38.50	0.50	743210	1.520	
40		**38.5-40.7m Tonalite** <1cm Py veins +diss Py	**1**	**4**	**2**	**0**	**5**	**0**	**0.5**	38.50	39.50	1.00	743211	0.110	

McVicar Minerals **Project** **McVicar Lake** **Page** **3** **of** **5**

Diamond Drill Log **Hole** **MV97-1**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	serl-cite 0-3	CO3 0-3	Mineralization py %	cpy %	hm %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
41		**40.7-41m Crackle Quartz Vein**	**100**	**6**	**0**	**0**	**1**	**0**	**0**	39.50	40.70	1.20	743212	0.025	
2		**41-72.7m Altered Tonalite**	**0.5**	**4**	**2**	**0**	**0.5**	**0**	**0**	40.70	41.00	0.30	743213	0.770	
3		Similar to material @ 33m but without a					**2**	**0**	**0**	41.00	42.00	1.00	743214	0.070	
4		well developed structural foliation. Buff								42.00	43.00	1.00	743215	0.380	
5		yellow to off-white, "apparent" coarse grain					**0.5**	**0**	**0**	43.00	44.00	1.00	743216	0.015	
6		due to alteration matrix surrounding litho								45.00	46.00	1.00	743217	<0.005	
7		fragments. Green tint between 38.5 to 44m													
8		due to some Hble in matrix, gradational													
9		boundaries													
50		42 - 44m Py aggregates <4mm in size in													
1	55	trails @ 55 degrees to core.								50.00	51.00	1.00	743218	<0.005	
2		44 + 44.3m, 2cm fine grained mylonite													
3															
4															
5															
6										55.00	56.00	1.00	743219	<0.005	
7															
8															
9															
60															
1	35	60.8-61.75 shear zone @ 35 to core								60.00	60.80	0.80	743220	<0.005	
2		some chlorite alteration	**0**	**4**	**2**	**1**	**0.5**	**0**	**0.5**	60.80	61.75	0.95	743221	<0.005	
3			**0.5**	**4**	**2**	**0**	**0.5**	**0**	**0**						
4															
5															
6										65.00	66.00	1.00	743222	<0.005	
7		66.5 -67m F.G. felsic dyke													
8															
9															
70															

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	seri-cite 0-3	CO3 0-3	Mineralization py %	cpy %	hm %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
71		**41-72.7m Altered Tonalite, Cont:**	**0.5**	**4**	**2**	**0**	**0.5**	**0**	**0**						
2															
3															
4		**72.7-75.2m Shear in Tonalite**	**0**	**4**	**2**	**0**	**1**	**0**	**0**	72.70	74.00	1.30	743223	0.060	
5		Several, variable intensity shears @ 45								74.00	75.20	1.20	743224	<0.005	
6		**75.2-89.8m Tonalite**	**0**	**6**	**0**	**0**	**Tr**	**0**	**0**						
7		Off-white with blotchy pink and green tints													
8		stockwork of chlorite filled joints in C.G.													
9		matrix with Hble aggregates <4mm. Py													
80		Py concentrated in joints.													
1		77.2-77.9m <20cm mylonite adjacent								80.00	81.00	1.00	743225	0.015	
2		to fault breccia parallel to core then 2nd													
3		10cm mylonite zone @ 50degrees.													
4															
5															
6															
7		86.2-87m sheared sericitic zone Py trails	**7**	**4**	**1**	**0**	**2**	**0**	**0**	86.20	87.00	0.80	743226	0.500	
8		or with quartz veining.	**1**	**5**	**1**	**0**	**0.5**	**0**	**0**						
9															
90		**89.8-96.45m Altered Tonalite**	**3**	**5**	**1**	**0**	**5**	**0**	**0**	89.80	91.00	1.20	743227	0.140	
1		Gradational boundary to off-white with buff													
2		tint similar to 41m. Py disseminated in													
3		matrix as fine grains, coarser Py occurs in													
4		aggregates & in massive veins with quartz.													
5										95.00	96.00	1.00	743228	0.200	
6										96.00	96.45	0.45	743229	0.035	
7		**96.45-96.8m Mylonite**	**10**	**3**	**1**	**1**	**1**	**0**	**Tr**						
8		**96.8-100.3m Altered Tonalite**	**5**	**4**	**2**	**1**	**3**	**0**	**0**	96.80	98.00	1.20	743230	0.025	
9		Similar to 89.8m with quartz vein								98.00	99.00	1.00	743231	0.010	
100		stockwork.								99.00	100.30	1.30	743232	0.020	

Project McVicar Lake Hole MV97-1

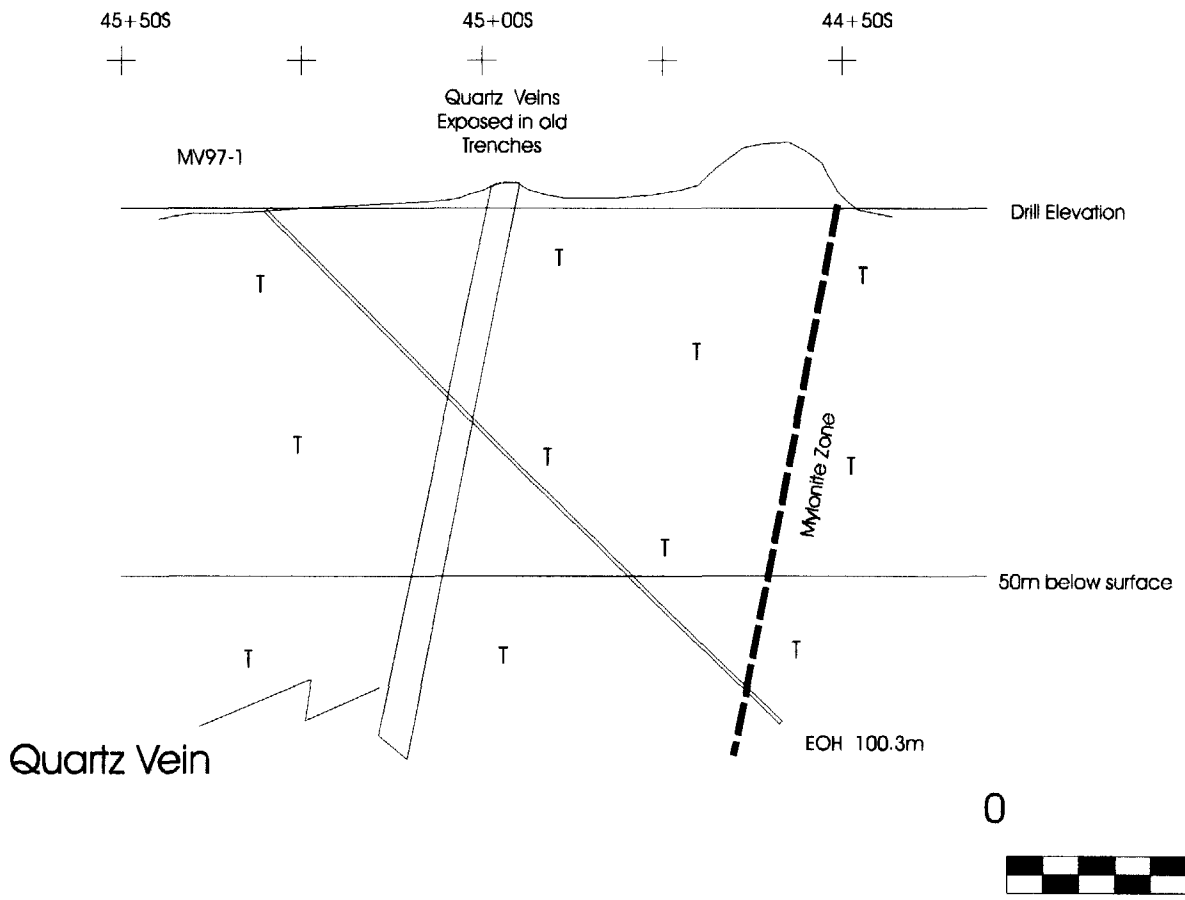
Technical Log

Core Recovery Log

From	To	Width (metres)	Length of Core	% Core Recovery
14.9	18.0	3.10	1.69	55
18.0	21.0	3.00	2.40	80
21.0	24.1	3.10	3.00	97
24.1	27.1	3.00	3.07	102
27.1	30.2	3.10	3.18	103
30.2	33.2	3.00	2.94	98
33.2	36.3	3.10	2.84	92
36.3	39.3	3.00	2.78	93
39.3	42.4	3.10	2.75	89
42.4	45.4	3.00	2.96	99
45.4	48.5	3.10	2.86	92
48.5	51.5	3.00	3.01	100
51.5	54.6	3.10	2.86	92
54.6	57.6	3.00	3.18	106
57.6	60.7	3.10	2.82	91
60.7	63.7	3.00	2.74	91
63.7	66.8	3.10	3.02	97
66.8	69.8	3.00	2.96	99
69.8	72.8	3.00	2.98	99
72.8	75.9	3.10	2.94	95
75.9	78.9	3.00	3.01	100
78.9	82.0	3.10	2.96	95
82.0	85.0	3.00	2.92	97
85.0	88.1	3.10	3.02	97
88.1	91.1	3.00	2.98	99
91.1	94.2	3.10	3.05	98
94.2	97.2	3.00	3.05	102
97.2	100.3	3.10	3.00	97
			Total	95

RQD Log

From	To	Width (metres)	Total Core >13cm for BD	RQD
14.9	18.0	3.10	0.27	0.09
18.0	21.0	3.00	1.43	0.48
21.0	24.1	3.10	1.66	0.54
24.1	27.1	3.00	2.71	0.90
27.1	30.2	3.10	2.61	0.84
30.2	33.2	3.00	2.05	0.68
33.2	36.3	3.10	1.47	0.47
36.3	39.3	3.00	1.30	0.43
39.3	42.4	3.10	1.17	0.38
42.4	45.4	3.00	2.28	0.76
45.4	48.5	3.10	1.33	0.43
48.5	51.5	3.00	1.63	0.54
51.5	54.6	3.10	2.39	0.77
54.6	57.6	3.00	2.45	0.82
57.6	60.7	3.10	1.96	0.63
60.7	63.7	3.00	1.50	0.50
63.7	66.8	3.10	2.20	0.71
66.8	69.8	3.00	1.97	0.66
69.8	72.8	3.00	2.21	0.74
72.8	75.9	3.10	1.57	0.51
75.9	78.9	3.00	1.52	0.51
78.9	82.0	3.10	2.09	0.67
82.0	85.0	3.00	1.72	0.57
85.0	88.1	3.10	2.56	0.83
88.1	91.1	3.00	2.25	0.75
91.1	94.2	3.10	2.36	0.76
94.2	97.2	3.00	2.27	0.76
97.2	100.3	3.10	2.73	0.88



Legend

MS	Metasediment	Gr	Granite / Granodiorite
FV	Felsic Metavolcanic	T	Tonalite
MV	Mafic Metavolcanic	Ga	Gabbro

McVicar Minerals Ltd.

DDH MV97-1

Section L35+20E

Looking West

Date 15th Aug 97	Scale As shown
Stewart Fumerton Consulting Geologist	

Diamond Drill Log

Project	McVicar Lake
Area	McVicar Lake
Hole	MV97-2
Core Size	BDBDGM
Date started	5th August 1997
Date finished	10th August 1997
Geologist	Stew Fumerton
Drill Company	W.G. Langley
Casing	10' of BW casing inserted and removed at the end of the hole
Reason drilled	To test a set of auriferous quartz veins sampled in trenches and hosted in sericite and carbonate altered tonalite
Results	No quartz veining within a zone of disseminated pyrite intersected in the hole as occurs at the 23 gramme zone on surface. However, extensive intervals of strongly altered tonalite were intersected. Predominately sericitic alteration at the upper levels and carbonate alteration at the lower levels. Despite the extensive alteration, no significant gold mineralization occurs.

Collar Co-ordinates

	Grid	UTM
Grid	Sor Lake	
Easting	L40+35E	
Northing	46+22S	
Elevation		
Depth	200.9 m	
Overburden	2 m	
Units	Metres	

Survey

	Direction	Inclination
Surface	Grid S	45
118m		40
201m		41

Instrument Acid — Uncorrected 48 deg & 49 deg resp

Skeleton Log

From m	To m	Lithology
0.00	2.00	Overburden
2.00	153.00	Altered Tonalite
153.00	162.60	Banded Tonalite
162.60	177.90	Altered Tonalite
177.90	195.40	Greenstone
195.40	197.20	Tonalite Dyke
197.20	200.90	Greenstone

Significant Assays

From m	To m	Value g/t
		None

McVicar Minerals **Project** **McVicar Lake** **Page** **2** **of** **11**

Diamond Drill Log **Hole** **MV97-2**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	serl-cite 0-3	CO3 0-3	Mineralization py %	cpy %	hm %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
1		**0-2m Overburden**													
2															
3		**2-153m Altered Tonalite**													
4		Variably altered tonalite with 2-3mm grain siz	**0**	**5**	**1**	**2**	**0.5**	**0**	**0**						
5		size, 25-30% quartz. Colours pale green-													
6		buff to off-white. V.F.G. pyrite dissemin								5.00	6.00	1.00	743233	0.040	
7		in matrix & partially concentrated adjacent													
8		to chlorite filled joints.													
9															
10		9-16m pale buff coloured, altered	**0.5**	**4**	**2**	**0**	**Tr**	**0**	**0**						
1		tonalite with feldspar matrix altered to FG								10.00	11.00	1.00	743234	<0.005	
2		sericite rich material. Local rotated quartz													
3		veins form rare "augen". Weak foliation													
4	60	at 60 degrees to core.								13.00	14.00	1.00	743235	<0.005	
5										14.00	15.00	1.00	743236	<0.005	
6		16-19m pale green altered tonalite with								15.00	16.00	1.00	743237	<0.005	
7		some chlorite / carbonate alteration.	**0**	**4**	**1**	**1**	**2**	**0**	**0**	16.00	17.00	1.00	743238	0.070	
8		Disseminated pyrite as single grain +													
9		<3mm aggregates													
20			**0**	**4**	**1**	**0**	**1**	**0**	**0**						
1										20.00	21.00	1.00	743239	<0.005	
2															
3															
4															
5															
6	60	25-25.5m Fragmented zone with kaolin .	**0**	**4**	**2**	**0**	**0.5**	**0**	**0**	25.00	26.00	1.00	734240	<0.005	
7															
8															
9															
30															

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	serl-cite 0-3	CO3 0-3	Mineralization py %	cpy %	hm %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
31		**Altered Tonalite Cont:-**	**0**	**4**	**1**	**1**	**0.5**	**0**	**0**	30.00	31.00	1.00	743241	0.085	
2															
3															
4															
5															
6										35.00	36.00	1.00	743242	0.015	
7		36-39m diffuse quartz veins with some	**1**	**4**	**2**	**0**	**0.5**	**0**	**0**	36.00	37.00	1.00	743243	<0.005	
8	65	Hble, typically <4mm @ 65 degrees to								37.00	38.00	1.00	743244	<0.005	
9		core													
40		39-40m pale green alteration, CO3 + Chl	**0**	**4**	**1**	**1**	**0.5**	**0**	**0**						
1		40m onwards. The change between pale	**0**	**4**	**1**	**1**	**0.5**	**0**	**0**	40.00	41.00	1.00	743245	<0.005	
2		green CO3 +Chl alteration is gradational													
3		and repetitive with pale buff sericite													
4		alteration and commonly on a sub metre													
5		scale.													
6										45.00	46.00	1.00	743246	0.025	
7															
8															
9															
50															
1	35	Foliation at 35 to core axis, pyrite in	**0.5**	**4**	**2**	**0**	**Tr**	**0**	**0**	50.00	51.00	1.00	743247	0.105	
2		discontinuous trails & disseminated in													
3		matrix. Joints filled with Chl, Qz, Calcite.													
4		at 54m, 2cm calcite vein													
5															
6										55.00	56.00	1.00	743248	<0.005	
7															
8		58 - 60m 2-3% discontinuous calcite veins	**0.5**	**4**	**1**	**1**	**0.5**	**0**	**0**						
9															
60															

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	serl-cite 0-3	CO3 0-3	Mineralization py %	cpy %	hm %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
61		**Altered Tonalite Cont:-**	**0.5**	**4**	**1**	**1**	**0.5**	**0**	**0**	60.00	61.00	1.00	743249	0.205	
2		60-69m pale green alteration with some													
3		Qz/CO3/Chl veinlets << 1cm thick.													
4		Foliation at 63 degrees to core axis.													
5	63														
6										65.00	66.00	1.00	743250	0.005	
7															
8															
9															
70		69-72.7m pink tint to altered tonalite. Py	**0.5**	**4**	**1**	**1**	**Tr**	**0**	**0**						
1		occurs as small aggregates in some								70.00	71.00	1.00	743251	0.040	
2	61	hair line Qz/Chl/CO3 veinlets. Foliation													
3		much weaker													
4		72.7-76m Pale green + pink altered	**0.5**	**4**	**1**	**1**	**Tr**	**0**	**0**						
5		tonalite													
6										75.00	76.00	1.00	743252	<0.005	
7		76-87m Less altered tonalite, mottled	**Tr**	**4**	**1**	**1**	**Tr**	**0**	**0**						
8		with 1cm lithoclasts rather than flaser													
9		or net textured. Very sparse dissem pyrite													
80		at 80m, 3cm Chl/CO3/Qz filled shear 20													
1		degrees to core axis								80.00	81.00	1.00	743253	<0.005	
2															
3															
4	60	Foliation 60 degrees to core													
5															
6		at 85.5m, <2cm chloritic shear at 20								85.00	86.00	1.00	743254	<0.005	
7		degrees													
8		87- 91m more intense shearing with	**2**	**4**	**1**	**1**	**Tr**	**0**	**0**						
9	60	some microbreccia of quartz veins. Very													
90		sparse disseminated pyrite.								89.00	990.00	1.00	743255	<0.005	

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	serl-cite 0-3	CO3 0-3	Mineralization py %	cpy %	hm %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
91		**Altered Tonalite Cont:-**	**2**	**4**	**1**	**1**	**Tr**								
2		87.2m, 4cm shear filled with Qz + Chl													
3		92.7m on pale green altered tonalite with	**2**	**4**	**0**	**2**	**2**	**0**	**0**	92.10	92.70	0.60	743256	0.030	
4		some vitrious spinal and very rare specks	**0.3**	**4**	**1**	**2**	**0**	**0**	**0**						
5	42	of pyrite. Week foliation 42 degrees													
6															
7															
8															
9															
100		at 99m, 3cm chlorite/carbonate shear at													
1		50 degrees to core axis								100.00	111.00	1.00	743257	<0.005	
2															
3															
4															
5															
6															
7															
8	58	at 57m, foliation is 58 degrees to core													
9															
110															
1										110.00	111.00	1.00	743258	<0.005	
2															
3															
4		112.9-113.2m crackle quartz veins <5cm	**30**	**5**	**0**	**3**	**0**	**0**	**0**	112.90	113.20	0.30	743259	<0.005	
5		thick plus carbonate & chlorite at 70 deg	**0.2**	**4**	**1**	**2**	**0**	**0**	**0**						
6		115.5m, 10cm Chl/CO3 shear													
7															
8															
9															
120															

McVicar Minerals **Project** **McVicar Lake** **Page** **6** **of** **11**

Diamond Drill Log **Hole** **MV97-2**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	serl-cite 0-3	CO3 0-3	Mineralization py %	cpy %	hm %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
121		**Altered Tonalite Cont:-**	**0.2**	**4**	**1**	**2**	**0**	**0**	**0**	120.00	121.00	1.00	743260	<0.005	
2															
3															
4															
5															
6															
7															
8															
9															
130										129.00	130.00	1.00	743261	<0.005	
1		130-130.4m, Chl/CO3 shear	**10**	**3**	**0**	**2**	**2**	**0**	**0**	130.00	130.40	0.40	743262	<0.005	
2		130.4-137m, CO3 vein stockwork with	**0.5**	**3**	**0**	**2**	**1**			131.00	132.00	1.00	743263	0.010	
3		<5mm veins forming approx 5% of rock.								132.00	133.00	1.00	743264	0.850	
4		Pyrite associated with veins and is semi													
5		massive													
6										135.00	136.00	1.00	743265	0.020	
7		136.8m, 2cm anastomizing Chl shear													
8		Rare specks of pyrite in matrix of	**0**	**4**	**0**	**2**	**0**	**0**	**0**						
9		altered tonalite													
140															
1										140.00	141.00	1.00	743266	<0.005	
2															
3															
4															
5															
6		145.7m, 10cm Chl/CO3 shear at 48 deg	**0**	**4**	**0**	**2**	**1**	**0**	**0**	145.00	146.00	1.00	743267	<0.005	
7		with disseminated pyrite													
8															
9		Pyrite in matrix occurs in <1mm													
150		aggregates													

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	seri-cite 0-3	CO3 0-3	Mineralization py %	cpy %	hm %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
151		**Altered Tonalite Cont:-**	**0**	**4**	**0**	**2**	**1**	**0**	**0**						
2															
3															
4		**153-162.6m Banded Tonalite**	**0.2**	**3**	**0**	**2**	**2**	**0**	**0**	153.00	154.00	1.00	743268	<0.005	
5		Gradational boundary to unit with diffuse								154.00	155.00	1.00	743269	<0.005	
6		chlorite/pyrite banding, probably re-								155.00	156.00	1.00	743270	<0.005	
7		crystallized shears. Pyrite occurs in<3mm								156.00	157.00	1.00	743271	<0.005	
8		semi massive bands. Pyrite also in matrix								157.00	158.00	1.00	743272	<0.005	
9		as disseminated, <<1mm subhedral grains.								158.00	159.00	1.00	743273	<0.005	
160	65	Foliation 65 deg to core axis.								159.00	160.00	1.00	743274	<0.005	
1										160.00	161.00	1.00	743275	<0.005	
2										161.00	162.60	1.60	743276	0.015	
3		**162.6-177.9m Altered Tonalite**	**0.5**	**4**	**0**	**2**	**0.5**	**0**	**0**						
4		Gradational boundary to pale to medium													
5		green tonalite with carbonate stockwork													
6		similar to 130,3m. 2-3mm CO3/Qz													
7		aggregates form incipient porphyroblasts													
8		Pyrite concentrated along joints and													
9		irregularly disseminated in matrix as <1mm													
170		grains													
1		170.1-170.4m Quartz vein with Chl	**50**	**6**	**0**	**1**	**Tr**	**0**	**0**	170.00	170.50	0.50	743277	<0.005	
2		selvages													
3															
4	40	173.7m, 40cm Chloritic greenstone band													
5		174.4m, 10cm Chloritic greenstone band													
6		175m, 80cm Chloritic greenstone band													
7															
8		**177.9-195.4m Greenstone**	**3**	**3**	**0**	**2**	**0**	**0**	**0**						
9		Gradual contact, hetrolithic unit. Fine													
180		grained, olive green, altered mafic													

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	serl-cite 0-3	CO3 0-3	Mineralization py %	cpy %	hm %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
181		**Greenstone Cont:-**	**3**	**3**	**0**	**2**	**0**	**0**	**0**	180.00	181.00	1.00	743278	<0.005	
2		volcanic cut by small tonalite dykelets,													
3		<20cm, which are faulted. Some quartz													
4		veins are brecciated and recrystallized, <5cm													
5		Younger Qz/CO3 veins are <2cm. Rare													
6		specks of pyrite in matrix.													
7															
8															
9															
190										190.00	191.00	1.00	743279	<0.005	
1	60	Foliation at 60 deg to core axis													
2															
3															
4															
5															
6		**195.4-197.2m Tonalite dyke**	**0**	**5**	**0**	**2**	**0**	**0**	**0**						
7															
8	65	**197.2-200.9m Greenstone**	**1**	**5**	**0**	**2**	**0**	**0**	**0**						
9		Same as at 177.9m								199.00	200.00	1.00	743280	<0.005	
200		199.9m, 5cm CO3 vein in 20cm chlorite													
1		shear													
		200.9m, E.O.H.													

Project McVicar Lake Hole MV97-2

Technical Log

Core Recovery Log

From	To	Width (metres)	Length of Core	% Core Recovery
3.0	5.8	2.80	2.30	82
5.8	8.8	3.00	2.93	98
8.8	11.9	3.10	3.00	97
11.9	14.9	3.00	3.04	101
14.9	18.0	3.10	3.06	99
18.0	21.0	3.00	3.01	100
21.0	24.1	3.10	2.96	95
24.1	27.1	3.00	2.90	97
27.1	30.2	3.10	2.93	95
30.2	33.2	3.00	2.93	98
33.2	36.3	3.10	2.98	96
36.3	39.3	3.00	3.03	101
39.3	42.4	3.10	2.92	94
42.4	45.4	3.00	2.90	97
45.4	48.5	3.10	2.94	95
48.5	51.5	3.00	3.05	102
51.5	54.6	3.10	2.89	93
54.6	57.6	3.00	3.01	100
57.6	60.7	3.10	3.00	97
60.7	63.7	3.00	2.87	96
63.7	66.8	3.10	3.02	97
66.8	69.8	3.00	3.00	100
69.8	72.8	3.00	3.00	100
72.8	75.9	3.10	3.04	98
75.9	78.9	3.00	3.01	100
78.9	82.0	3.10	2.98	96
82.0	85.0	3.00	3.05	102
85.0	88.0	3.00	2.99	100
88.0	91.1	3.10	3.03	98
91.1	94.2	3.10	3.05	98
94.2	97.2	3.00	2.99	100

RQD Log

From	To	Width (metres)	Total Core >13cm for BD	RQD
3.0	5.8	2.80	0.75	0.27
5.8	8.8	3.00	1.04	0.35
8.8	11.9	3.10	1.77	0.57
11.9	14.9	3.00	2.44	0.81
14.9	18.0	3.10	2.41	0.78
18.0	21.0	3.00	1.60	0.53
21.0	24.1	3.10	2.30	0.74
24.1	27.1	3.00	1.84	0.61
27.1	30.2	3.10	2.03	0.65
30.2	33.2	3.00	2.03	0.68
33.2	36.3	3.10	1.94	0.63
36.3	39.3	3.00	2.73	0.91
39.3	42.4	3.10	2.02	0.65
42.4	45.4	3.00	2.17	0.72
45.4	48.5	3.10	1.91	0.62
48.5	51.5	3.00	2.62	0.87
51.5	54.6	3.10	1.44	0.46
54.6	57.6	3.00	2.82	0.94
57.6	60.7	3.10	2.27	0.73
60.7	63.7	3.00	2.21	0.74
63.7	66.8	3.10	2.29	0.74
66.8	69.8	3.00	2.79	0.93
69.8	72.8	3.00	2.61	0.87
72.8	75.9	3.10	2.06	0.66
75.9	78.9	3.00	2.62	0.87
78.9	82.0	3.10	1.61	0.52
82.0	85.0	3.00	2.50	0.83
85.0	88.0	3.00	2.88	0.96
88.0	91.1	3.10	2.46	0.79
91.1	94.2	3.10	2.58	0.83
94.2	97.2	3.00	2.65	0.88

Project McVicar Lake **Hole** MV97-2

Technical Log

Core Recovery Log

From	To	Width (metres)	Length of Core	% Core Recovery
97.2	100.3	3.10	2.88	93
100.3	103.3	3.00	3.12	104
103.3	106.4	3.10	3.01	97
106.4	109.4	3.00	2.95	98
109.4	112.5	3.10	3.04	98
112.5	115.5	3.00	3.05	102
115.5	118.6	3.10	3.05	98
118.6	121.6	3.00	3.03	101
121.6	124.7	3.10	3.05	98
124.7	127.7	3.00	2.90	97
127.7	130.8	3.10	3.02	97
130.8	133.8	3.00	2.90	97
133.8	136.9	3.10	3.08	99
136.9	139.9	3.00	3.05	102
139.9	142.9	3.00	2.82	94
142.9	146.0	3.10	3.05	98
146.0	149.0	3.00	2.95	98
149.0	152.1	3.10	3.05	98
152.1	155.1	3.00	2.99	100
155.1	158.2	3.10	2.98	96
158.2	161.2	3.00	3.01	100
161.2	164.3	3.10	3.05	98
164.3	167.3	3.00	3.00	100
167.3	170.4	3.10	3.02	97
170.4	173.4	3.00	2.94	98
173.4	176.5	3.10	3.02	97
176.5	179.5	3.00	3.05	102
179.5	182.6	3.10	3.05	98
182.6	185.6	3.00	3.01	100
185.6	188.7	3.10	3.01	97
188.7	191.7	3.00	3.03	101

RQD Log

From	To	Width (metres)	Total Core >13cm for BD	RQD
97.2	100.3	3.10	2.50	0.81
100.3	103.3	3.00	2.26	0.75
103.3	106.4	3.10	2.57	0.83
106.4	109.4	3.00	2.20	0.73
109.4	112.5	3.10	2.30	0.74
112.5	115.5	3.00	1.65	0.55
115.5	118.6	3.10	1.78	0.57
118.6	121.6	3.00	2.50	0.83
121.6	124.7	3.10	1.53	0.49
124.7	127.7	3.00	1.96	0.65
127.7	130.8	3.10	2.50	0.81
130.8	133.8	3.00	1.24	0.41
133.8	136.9	3.10	2.12	0.68
136.9	139.9	3.00	2.22	0.74
139.9	142.9	3.00	2.27	0.76
142.9	146.0	3.10	2.50	0.81
146.0	149.0	3.00	2.24	0.75
149.0	152.1	3.10	2.20	0.71
152.1	155.1	3.00	2.77	0.92
155.1	158.2	3.10	2.91	0.94
158.2	161.2	3.00	2.85	0.95
161.2	164.3	3.10	2.83	0.91
164.3	167.3	3.00	2.38	0.79
167.3	170.4	3.10	2.56	0.83
170.4	173.4	3.00	2.74	0.91
173.4	176.5	3.10	2.89	0.93
176.5	179.5	3.00	2.80	0.93
179.5	182.6	3.10	2.43	0.78
182.6	185.6	3.00	2.75	0.92
185.6	188.7	3.10	2.77	0.89
188.7	191.7	3.00	3.00	1.00

Project McVicar Lake **Hole** MV97-2

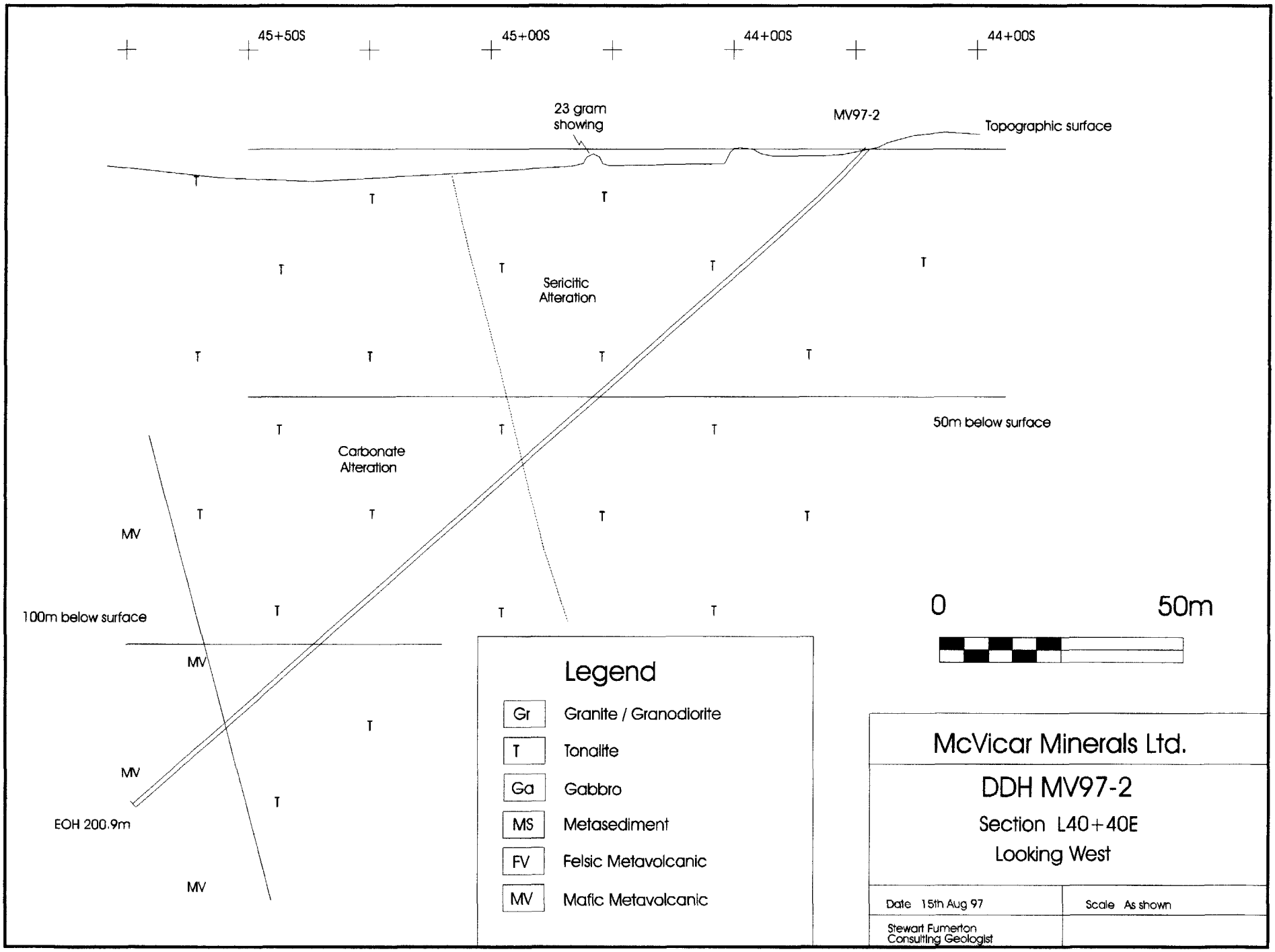
Technical Log

Core Recovery Log

From	To	Width (metres)	Length of Core	% Core Recovery
191.7	194.7	3.00	3.00	100
194.7	197.8	3.10	3.01	97
197.8	200.9	3.10	3.01	97
			Total	98

RQD Log

From	To	Width (metres)	Total Core >13cm for BD	RQD
191.7	194.7	3.00	2.45	0.82
194.7	197.8	3.10	2.67	0.86
197.8	200.9	3.10	2.51	0.81


45+50S
45+00S
44+00S
44+00S
23 gram showing
MV97-2
Topographic surface
Sericitic Alteration
50m below surface
Carbonate Alteration
100m below surface
EOH 200.9m
MV
T
0
50m
Legend
Gr Granite / Granodiorite
T Tonalite
Ga Gabbro
MS Metasediment
FV Felsic Metavolcanic
MV Mafic Metavolcanic
McVicar Minerals Ltd.
DDH MV97-2
Section L40+40E
Looking West
Date 15th Aug 97
Scale As shown
Stewart Fumerton
Consulting Geologist

Diamond Drill Log

Project	McVicar Lake
Area	McVicar Lake
Hole	MV97-3
Core Size	BDBDGM
Date started	11th August 1997
Date finished	13th August 1997
Geologist	Stew Fumerton
Drill Company	W.G. Langley
Casing	6' of BW casing inserted and removed upon completion of the hole.

Collar Co-ordinates

	Grid	UTM
Grid	Sor Lake	
Easting	L40E	
Northing	38+25S	
Elevation	363 m	
Depth	100.3 m	
Overburden	1 m	
Units	Metres	

Survey

	Direction	Inclination
Surface	Grid S	45
100m		41

Instrument

Acid Uncorrected 49 deg

Reason drilled To test a very strong IP chargeabilty anomaly on the granite / greenstone contact and coincident with the Lower McVicar Fault.

Results The hole intersected extensive intervals of disseminated pyrite and discontinuous pyrite trails. This would explain the IP anomaly and the secondary nature of most of the pyrite mineralization is favourable for gold mineralization, but no significant gold assay values were obtained. No indications of major faulting was intersected.

Skeleton Log

From m	To m	Lithology
0.00	1.00	Overburden
1.00	19.70	Hornblende Granodiorite
19.70	26.70	Fine grain, chill margin of Granodiorite
26.70	100.30	Interbedded Siltstones and Graphitc Mudstones. Common stockwork of calcite / quartz veins and pyrite in four modes. 1) thin lamellae which may be primary, 2) disseminated in matrix, 3) in irregular discontinuous trails, and 4) associated with the calcite / quartz vein stockwork.

Significant Assays

From m	To m	Value g/t
		None

McVicar Minerals **Project** **McVicar Lake** **Page** **2** **of** **7**

Diamond Drill Log **Hole** **MV97-3**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	serl-cite 0-3	CO3 0-3	Mineralization py %	cpy %	aspy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
1		**0-1 m, Overburden**													
2		**1-19.7 m, Granodiorite**	**2**	**6**	**0**	**1**	**0**	**0**	**0**						
3		Pale green to of-white, C.G. (2-4mm),													
4		anhedral feldspar megacrysts up to 1cm													
5		do occur but uncommon. Hble forms 10%													
6		with minor amounts of V.F.G. Magnetite													
7		disseminated in matrix together with rare													
8		specks of pyrite. Some calcite occurs in													
9		matrix and associated with quartz /													
10	40	feldspar veins which are up to 1 cm thick													
1		and at 40 deg to core axis.								10.00	11.00	1.00	743281	<0.005	
2															
3															
4															
5															
6															
7															
8															
9															
20															
1		**19.7- 26.7 m, Granodiorite Chill Margin.**	**0.2**	**6**	**0**	**2**	**Tr**	**0**	**0**						
2		Relatively sharp change to M.G - F.G.													
3		phase of the granodiorite. Local													
4		concentrations of Py in trails.													
5		24.5m, 2cm Quartz vein.								24.00	25.00	1.00	743282	0.010	
6															
7															
8		**26.7- 100.3 m, Siltstone / Graphitic Mud**	**1**	**4**	**0**	**0**	**0.2**	**0**	**0**						
9		Sharp contact, off-white siltstone with													
30		some fine arenite grading into cold grey													

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	serl-cite 0-3	CO3 0-3	Mineralization py %	cpy %	aspy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
31		**Intercalated Siltstone / Mudstone Cont:-**	**1**	**4**	**0**	**0**	**0.2**	**0**	**0**	30.00	31.00	1.00	743283	<0.005	
2		graphitic mudstone. Bedding in siltstone													
3		<20cm typically 2-3cm. In mudstone <2cm													
4		commonly 0,5cm and down to 0.1cm. Tops													
5		down-hole at 32,33,34, & 36m. Bedding													
6	55	commonly whispy due to slightly oblique								35.00	36.00	1.00	743284	<0.005	
7		faulting. Bedding core angle 50-60 deg													
8		Cal/Qz/Py brittle veins, <1cm, form open													
9	40	stockwork.	**10**	**4**	**0**	**1**	**3**	**0**	**0**	38.00	39.00	1.00	743285	<0.005	
40		38-39.9m, disrupted, sheared zone with								39.00	39.90	0.90	743285	<0.005	
1		Cal/Qz veins, Py trails parallel to foln & as	**2**	**4**	**0**	**0**	**2**	**0**	**0**						
2		smears along parting planes @ 40 deg													
3		39.9m onwards. Intercalated siltstone								42.00	43.00	1.00	743287	<0.005	
4		mudstone. Fold axis @ 44.5m with tops													
5		up @ 43m and down at 47,49, 51, 57m.													
6		Calcite veining more common in mud-								45.00	46.00	1.00	743288	<0.005	
7		stone phases. Pyrite occurs in fine &													
8		coarse sediments as V.F.G. dissemin-													
9		ations in matrix + discontinuous trails								48.00	49.00	1.00	743289	<0.005	
50		parallel to bedding and associated with													
1	50	calcite / quartz veins. Bedding at 50 deg													
2		at 50m.								51.00	52.00	1.00	743290	<0.005	
3															
4															
5										54.00	55.00	1.00	743291	<0.005	
6		55-78m Siltstone forms approx. 95% &	**1**	**4**	**0**	**0**	**2**	**0**	**0**						
7		mudstone forms 5% of the unit.													
8										57.00	58.00	1.00	743292	<0.005	
9		All top measurements from graded beds													
60															

McVicar Minerals **Project** **McVicar Lake** **Page** **4** **of** **7**

Diamond Drill Log **Hole** **MV97-3**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	seri-cite 0-3	CO3 0-3	Mineralization py %	cpy %	aspy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
61		**Intercalated Siltstone / Mudstone Cont:-**	**1**	**4**	**0**	**0**	**2**	**0**	**0**	60.00	61.00	1.00	743293	<0.005	
2	Beds	Pyrite disseminated in matrix & in trails													
3	45	subparallel to bedding & in small Calcite /													
4		quartz veinlets. Open stockwork of veins								63.00	64.00	1.00	743294	<0.005	
5		with irregular orientation & <3mm wide.													
6		Less tectonic shuffling of bedding and													
7	60	graded tops down hole at 63, 66, 75,								66.00	67.00	1.00	743295	<0.005	
8		& 77m													
9															
70										69.00	70.00	1.00	743296	<0.005	
1															
2															
3										72.00	73.00	1.00	743297	<0.005	
4		75m, 4 cm semi massive, primary pyrite in													
5	60	graphitic mudstone bed.													
6		75.5m, apparent "S" fold in bedding								74.90	76.00	1.10	743298	<0.005	
7															
8	35														
9		78-78.4m shear zone	**10**	**4**	**0**	**0**	**2**	**0**	**0**	78.00	79.00	1.00	743299	<0.005	
80		78.4-90.6m, 90% siltstone 10% mudstone													
1	45	with graded beds tops down hole at 77,													
2		71, 86, & 89m. Some erosional channels								81.00	82.00	1.00	743300	<0.005	
3		at base of siltstone beds with tops down													
4		hole. Pyrite in addition to being dissemin													
5		in matrix & in trails plus veins, also occurs								84.00	85.00	1.00	743301	<0.005	
6		as thin lamellae parallel to bedding in													
7		graphitic mudstone beds & are <2mm thick													
8		Discontinuous quartz veins < 5cmthick at								87.00	88.00	1.00	743302	<0.005	
9	55	79.5, 84.2, 85.4m in addition to normal													
90		calcite / quartz stockwork.													

McVicar Minerals **Project** **McVicar Lake** **Page** **5** **of** **7**

Diamond Drill Log **Hole** **MV97-3**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	serl-cite 0-3	CO3 0-3	Mineralization py %	cpy %	aspy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
91		**Intercalated Siltstone / Mudstone Cont:-**	**10**	**4**	**0**	**0**	**2**	**0**	**0**	90.00	91.00	1.00	743303	<0.005	
2		90.6-100.3m, base of siltstone beds													
3		include some coarser arenite. 80% silt-													
4		stone, 20% mudstone and incipient quartz								93.00	94.00	1.00	743304	<0.005	
5		veins formed in silt beds. These are													
6		recrystallized, fractured with secondary													
7		hairline offshoots. Pyrite occurs in 4 modes								96.00	97.00	1.00	743305	<0.005	
8		1 matrix, 2 discontinuous trails, 3 veins													
9		and 4 thin lamellae													
100															
1		**100.3m E.O.H.**													
		Note, Box with core from 26.9 - 30.9m was dropped while being split .													

Project McVicar Lake Hole MV97-3

Technical Log

Core Recovery Log

From	To	Width (metres)	Length of Core	% Core Recovery
2.70	5.80	3.10	3.03	98
5.80	8.80	3.00	3.02	101
8.80	11.90	3.10	3.00	97
11.90	14.90	3.00	3.05	102
14.90	18.00	3.10	3.02	97
18.00	21.00	3.00	3.10	103
21.00	24.10	3.10	3.15	102
24.10	27.10	3.00	2.96	99
27.10	30.20	3.10	2.92	94
30.20	33.20	3.00	3.03	101
33.20	36.30	3.10	2.98	96
36.30	39.30	3.00	3.02	101
39.30	42.40	3.10	2.99	96
42.40	45.40	3.00	2.87	96
45.40	48.50	3.10	2.98	96
48.50	51.50	3.00	3.03	101
51.50	54.60	3.10	2.99	96
54.60	57.60	3.00	2.96	99
57.60	60.70	3.10	3.04	98
60.70	63.70	3.00	2.96	99
63.70	66.80	3.10	2.89	93
66.80	69.20	2.40	2.51	105
69.20	72.40	3.20	3.11	97
72.40	72.80	0.40	0.49	123
72.80	75.90	3.10	3.08	99
75.90	78.90	3.00	3.03	101
78.90	82.10	3.20	3.15	98
82.10	85.00	2.90	2.86	99
85.00	86.80	1.80	1.63	91
86.80	88.10	1.30	1.29	99
88.10	91.10	3.00	2.97	99

RQD Log

From	To	Width (metres)	Total Core >13cm for BD	RQD
2.70	5.80	3.10	1.79	0.58
5.80	8.80	3.00	2.97	0.99
8.80	11.90	3.10	2.24	0.72
11.90	14.90	3.00	2.67	0.89
14.90	18.00	3.10	2.37	0.76
18.00	21.00	3.00	1.97	0.66
21.00	24.10	3.10	2.55	0.82
24.10	27.10	3.00	1.29	0.43
27.10	30.20	3.10	1.64	0.53
30.20	33.20	3.00	1.81	0.60
33.20	36.30	3.10	1.84	0.59
36.30	39.30	3.00	1.23	0.41
39.30	42.40	3.10	1.47	0.47
42.40	45.40	3.00	0.66	0.22
45.40	48.50	3.10	0.96	0.31
48.50	51.50	3.00	0.48	0.16
51.50	54.60	3.10	0.73	0.24
54.60	57.60	3.00	0.72	0.24
57.60	60.70	3.10	1.04	0.34
60.70	63.70	3.00	2.04	0.68
63.70	66.80	3.10	1.42	0.46
66.80	69.20	2.40	1.67	0.70
69.20	72.40	3.20	2.37	0.74
72.40	72.80	0.40	0.27	0.68
72.80	75.90	3.10	1.62	0.52
75.90	78.90	3.00	2.02	0.67
78.90	82.10	3.20	2.73	0.85
82.10	85.00	2.90	1.80	0.62
85.00	86.80	1.80	1.39	0.77
86.80	88.10	1.30	0.82	0.63
88.10	91.10	3.00	2.51	0.84

Project McVicar Lake **Hole** MV97-3

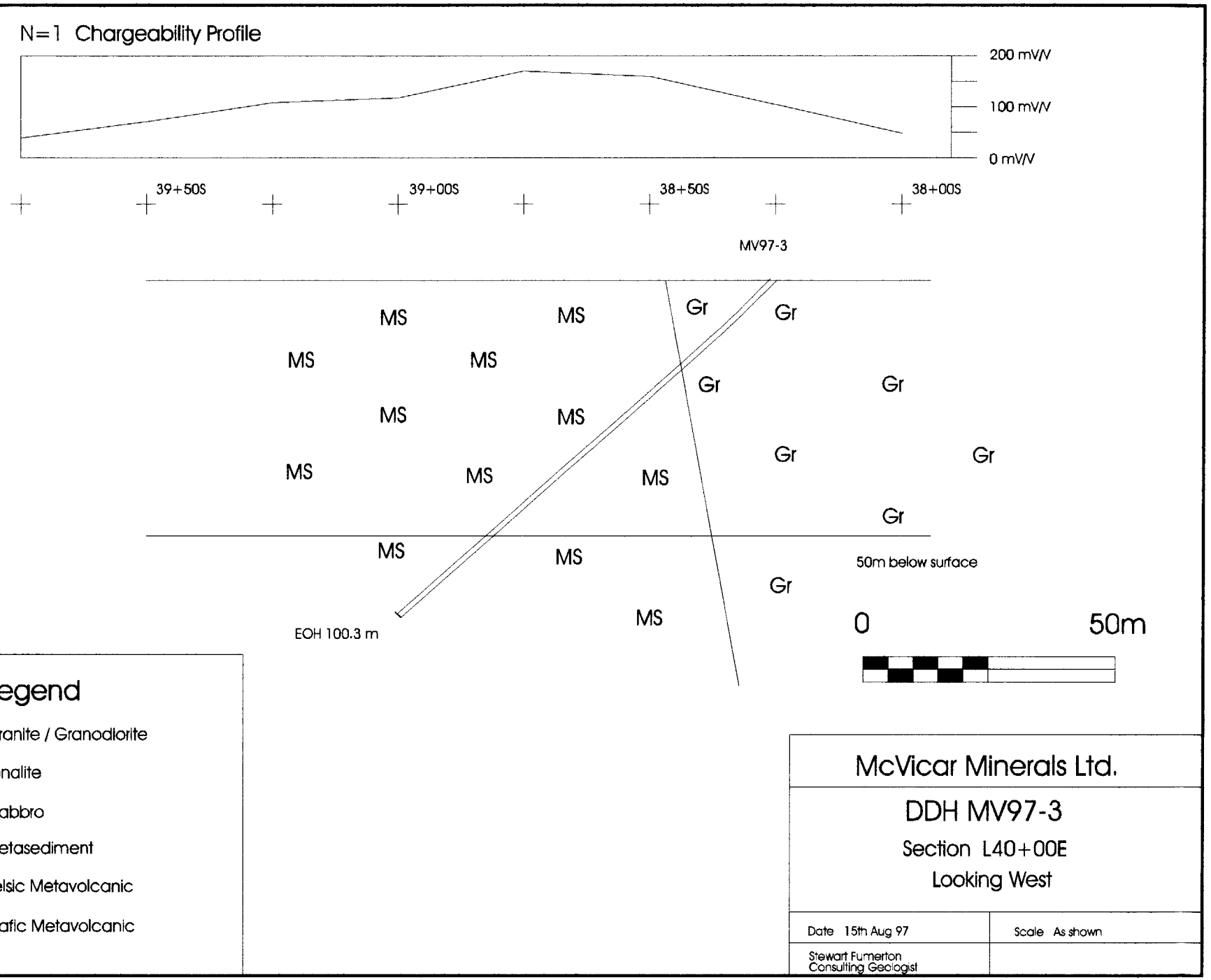
Technical Log

Core Recovery Log

From	To	Width (metres)	Length of Core	% Core Recovery
91.10	94.20	3.10	3.10	100
94.20	97.20	3.00	3.02	101
97.20	100.30	3.10	3.00	97
			Total	99

RQD Log

From	To	Width (metres)	Total Core >13cm for BD	RQD
91.10	94.20	3.10	2.92	0.94
94.20	97.20	3.00	2.04	0.68
97.20	100.30	3.10	1.87	0.60


N=1 Chargeability Profile
200 mV/V
100 mV/V
0 mV/V
39+50S
39+00S
38+50S
38+00S
MV97-3
MS
Gr
50m below surface
EOH 100.3 m
0
50m
Legend
Gr Granite / Granodiorite
T Tonalite
Ga Gabbro
MS Metasediment
FV Felsic Metavolcanic
MV Mafic Metavolcanic
McVicar Minerals Ltd.
DDH MV97-3
Section L40+00E
Looking West
Date 15th Aug 97
Scale As shown
Stewart Fumerton
Consulting Geologist

Project	McVicar Lake
Area	McVicar Lake
Hole	MV97-4
Core Size	BDBDGM
Date started	13th August 1997
Date finished	16th August 1997
Geologist	Stew Fumerton
Drill Company	W.G. Langley

Collar Co-ordinates

	Grid	UTM
Grid	Sor Lake	
Easting	L49E	
Northing	40+25S	
Elevation	376 m	
Depth	185.3 m	
Overburden	0 m	
Units	Metres	

Survey

	Direction	Inclination
Surface	Grid S	50
185m		46

Instrument

Acid Uncorrected 54 deg

Casing 2' of casing inserted and removed upon completion of the hole.

Reason drilled To test a very strong IP chargeabilty anomaly east of the anomaly tested in Hole MV97-3 and oincident with a granite / greenstone contact. Some trenches in the nearby volcanics returned anomalous gold values.

Results The main unit intersected is a massive fine grained arenaceous sandtone. Restricted bedding indicates a shallow core angle or parallel to core indicating that the hole basically went down dip. The pyrite wafers in joint planes plus some disseminated grains in the matrix could explain the chargeability anomaly.

The hole was stopped before the planned 200m because of the lack of alteration and structural orientation of the hole.

Skeleton Log

From m	To m	Lithology
0.00	1.00	Feldspar Porphyry
1.00	13.80	Arenaceous Sandstone
13.80	18.95	Feldspar Porphyry
18.95	161.20	Arenaceous Sandstone
161.20	167.40	Granitic Dyke
167.40	185.30	Arenaceous Sandstone

Significant Assays

From m	To m	Value g/t
		None

McVicar Minerals **Project** **McVicar Lake** **Page** **2** **of** **11**

Diamond Drill Log **Hole** **MV97-4**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	serl-cite 0-3	CO3 0-3	Mineralization py %	cpy %	aspy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
1		**0-1m, Feldspar Porphyry dyke**													
2		**1-13.8, Arenaceous Sandstone**	**0.5**	**5**	**0**	**0**	**0.1**								
3		Medium cold grey, typically 0.5-1mm													
4		grains, bedding is poorly developed and													
5		the unit is generally massive. Pyrite is													
6		associated with chlorite along joint planes.													
7		Qz/Feld veins are < 1cm thick.													
8															
9		19m, 2-3cm thick graded beds, sandstone -													
10	30	siltstone over half metre. Tops down hole													
1		with bedding at 30 deg to core axis								10.00	11.00	1.00	743306	<0.005	
2															
3															
4		**13.8-18.95m, Feldspar Porphyry**	**6**	**6**	**0**	**0**	**0.1**								
5		White, subhedral feldspar laths, <4mm													
6		randomly orientated. F.G. felsic matrix													
7		Some <2cm xenoliths. Py + Chlorite plates													
8		along joint planes. Common Qz/Cal veins													
9		16.3 & 18.2m 5 & 10cm Qz/Feld veins													
20		**18.95-42.4m, Arenaceous Sandstone**	**2**	**5**	**0**	**0**	**0.1**								
1		Sharp contact with sandstone similar to								20.00	21.00	1.00	743307	<0.005	
2		unit @ 1m. Pyrite also occurs as minute													
3		specks sparsely disseminated in matrix.													
4		23.5 & 24m, 3-4cm quartz veins.													
5		Strong set of conjugate veins throughout													
6		the unit.													
7	40	27m, poorly developed bedding, 5-10cm													
8		sand to silt & not graded. 40 deg to core													
9															
30	45	29m bedding @ 45 deg to core.													

McVicar Minerals **Project** **McVicar Lake** **Page** **3** **of** **11**

Diamond Drill Log **Hole** **MV97-4**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	serl-cite 0-3	CO3 0-3	Mineralization py %	cpy %	aspy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
31		**Arenaceous Sandstone Cont:-**	**1**	**4**	**0**	**0**	**Tr**	**0**	**0**	30.00	31.00	1.00	743308		
2		at 31m, 6cm sausseritized zone. Pyrite													
3		sparsely disseminated in matrix and rarely													
4		in discontinuous trails + in smears along													
5		joints. Unit is typically massive with poor													
6		bedding.													
7		at 36m, 20cm shear zone parallel to bed													
8															
9															
40	25	at 42m, <1cm thick beds at 25 deg to													
1		core, poor grading indicates tops up hole.								40.00	41.00	1.00	743309	<0.005	
2															
3		42.4-42.8m, Granitic Dyke													
4	20	43.8m, 0.5cm beds at 20 deg to core													
5															
6		Open stockwork of Qz/Feld/Cal veins													
7		typically <3mm thick & <4cm long in													
8		multiple structural directions.													
9															
50	0	at 50m, bedding parallel to core													
1		50.8-51m, chloritic shear.								50.00	51.00	1.00	743310	<0.005	
2															
3															
4															
5															
6		56.5m, bedding 35 deg to core.													
7															
8															
9															
60															

McVicar Minerals **Project** **McVicar Lake** **Page** **4** **of** **11**

Diamond Drill Log **Hole** **MV97-4**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	serl-cite 0-3	CO3 0-3	Mineralization py %	cpy %	aspy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
61	25	**Arenaceous Sandstone Cont:-**	**1**	**4**	**0**	**0**	**0.5**	**0**	**0**	60.00	61.00	1.00	743311		
2		at 61m, bedding at 25 deg to core													
3															
4		Pyrite also associated with the Quartz /													
5		feldspar veins in addition to the joints.													
6															
7															
8															
9															
70	35	at 70m, bedding 35 deg to core axis.													
1										70.00	71.00	1.00	743312	<0.005	
2		at 71m, 5cm calcite vein.								71.00	72.00	2.00	743313	<0.005	
3	25	at 72m, bedding at 25 deg to core and													
4		pyrite occurs in thin wafers along the													
5		bedding plane.													
6															
7															
8															
9															
80															
1										80.00	81.00	1.00	743314	<0.005	
2															
3	0	at 83.5m, bedding parallel to the core axis													
4															
5	20	at 85m, bedding 20 deg to core													
6															
7															
8															
9															
90															

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	serl-cite 0-3	CO3 0-3	Mineralization py %	cpy %	aspy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
91		**Arenaceous Sandstone Cont:-**	**1**	**4**	**0**	**0**	**0.5**	**0**	**0**	90.00	91.00	1.00	743315		
2															
3															
4															
5															
6	10	at 95m, bedding at 10 deg to core.													
7															
8															
9															
100															
1										100.00	101.00	1.00	743316	<0.005	
2															
3	0	102-104m, graded beds parallel to core													
4		axis. Small scale faulting has formed													
5		small off-sets of the bedding, 1-2mm.													
6															
7															
8															
9		108.15-108.3m, granitic dyke													
110															
1			**0.2**	**4**	**0**	**0**	**0.5**	**0**	**0**	110.00	111.00	1.00	743317	<0.005	
2															
3	0	at 112m, bedding 0 deg to core axis.													
4															
5	20	at 114.5m bedding at 20 deg to core													
6															
7															
8															
9															
120															

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	serl-cite 0-3	CO3 0-3	Mineralization py %	cpy %	aspy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
121		**Arenaceous Sandstone Cont:-**	**0.2**	**5**	**0**	**0**	**0.1**	**0**	**0**	120.00	121.00	1.00	743318	<0.005	
2															
3															
4															
5															
6	30	at 125m, bedding 30 deg to core axis													
7															
8															
9															
130															
1		130m onwards, pyrite aggregates <3mm	**1**	**5**	**0**	**0**	**0.5**	**0**	**0**	130.00	131.00	1.00	743319	<0.005	
2		sparsely disseminated in matrix. Magnetite													
3		occurs in some Qz/Cal veins along margins													
4															
5															
6		135.8m, 3cm Qz/Chl/Cal vein								135.00	136.00	1.00	743320	<0.005	
7	43	136m bedding at 43 deg to core axis								136.00	137.00	1.00	743321	<0.005	
8		136.5m Cal/Qz vein <5mm has <3mm													
9		galena crystals forming 55 of vein													
140	20	139m, bedding at 20 deg to core axis													
1										140.00	141.00	1.00	743322	<0.005	
2															
3															
4															
5															
6	45	145.8m bedding at 45 deg to core axis								145.00	146.00	1.00	743323	<0.005	
7		& scour channel indicates tops up hole.													
8															
9															
150	40	149.5m, bedding at 40 deg to core axis													

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	serl-cite 0-3	CO3 0-3	Mineralization py %	cpy %	aspy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
151	40	**Arenaceous Sandstone Cont:-**	**2**	**4**	**0**	**0**	**0.5**	**0**	**0**	150.00	151.00	1.00	743324	<0.005	
2		150m, bedding at 40 deg.													
3		Pyrite mainly occurs in the matrix at this													
4		depth but locally concentrated near veins.													
5	45	154m, bedding at 45 deg to core axis,													
6										157.00	158.00	1.00	743325	<0.005	
7		157.8m, 6cm crackle quartz vein.													
8															
9		160.2m, 2cm irregular quartz vein.													
160															
1		**161.2-167.4m,Granitic dyke**								160.00	161.20	1.20	743326	<0.005	
2		Medium grain, pale green-grey, strongly	**0.5**	**4**	**1**	**2**	**3**	**0**	**0**	161.20	162.00	1.00	743327	<0.005	
3		foliated with biotite, chlorite and pyrite								162.00	163.00	1.00	743328	<0.005	
4		as mafic minerals, occurring in foliation								163.00	164.00	1.00	743329	<0.005	
5		plane. Calcite alteration is strong and								164.00	165.00	1.00	743330	<0.005	
6	45	ubiquitous with sericite alteration assoc-								165.00	166.00	1.00	743331	<0.005	
7		iated with mafics. Foln at 45 deg at 166m.								166.00	167.00	1.00	743332	<0.005	
8		**167.4-185.3m, Arenaceous Sandstone**	**1**	**4**	**0**	**0**	**0.5**	**0**	**0**	167.00	167.40	0.40	743333	<0.005	
9		Same unit as above.													
170															
1		171.4-172.1m Granitic dyke as above.													
2										171.40	172.10	0.70	743334	<0.005	
3															
4															
5															
6	35	176m, graded bedding at 35 deg to													
7		core axis and tops down hole.													
8															
9															
180		179.4m, 2cm quartz vein with pyrite.								179.00	180.00	1.00	743335	<0.005	

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Diamond Drill Log **Hole** **MV97-4**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	serl-cite 0-3	CO3 0-3	Mineralization py %	cpy %	aspy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
181		**Arenaceous Sandstone Cont:-**	**1**	**4**	**0**	**0**	**0.5**	**0**	**0**						
2															
3	0	183-185.3m, bedding parallel to core													
4		axis													
5															
6		**185.3m End of Hole**													
7															
8															
9															
190															

Project McVicar Lake **Hole** MV97-4

Technical Log

Core Recovery Log

From	To	Width (metres)	Length of Core	% Core Recovery
0.0	2.7	2.70	1.38	51
2.7	5.8	3.10	2.57	83
5.8	8.8	3.00	3.00	100
8.8	11.4	2.60	2.56	98
11.4	11.9	0.50	0.45	90
11.9	14.9	3.00	3.00	100
14.9	18.0	3.10	2.99	96
18.0	20.4	2.40	2.35	98
20.4	21.0	0.60	0.56	93
21.0	22.7	1.70	1.66	98
22.7	24.1	1.40	1.35	96
24.1	25.3	1.20	1.14	95
25.3	27.1	1.80	1.80	100
27.1	29.6	2.50	2.41	96
29.6	30.2	0.60	0.65	108
30.2	32.5	2.30	2.27	99
32.5	33.2	0.70	0.77	110
33.2	36.3	3.10	3.02	97
36.3	39.3	3.00	3.03	101
39.3	41.5	2.20	1.86	85
41.5	42.4	0.90	1.13	126
42.4	44.2	1.80	1.93	107
44.2	45.4	1.20	1.05	88
45.4	48.2	2.80	2.67	95
48.2	48.5	0.30	0.24	80
48.5	51.3	2.80	2.77	99
51.3	51.5	0.20	0.18	90
51.5	52.6	1.10	1.10	100
52.6	54.6	2.00	1.92	96
54.6	55.8	1.20	1.02	85
55.8	57.6	1.80	1.75	97

RQD Log

From	To	Width (metres)	Total Core >13cm for BD	RQD
0.0	2.7	2.70	0.71	0.26
2.7	5.8	3.10	1.12	0.36
5.8	8.8	3.00	1.48	0.49
8.8	11.4	2.60	1.82	0.70
11.4	11.9	0.50	0.15	0.30
11.9	14.9	3.00	2.67	0.89
14.9	18.0	3.10	2.56	0.83
18.0	20.4	2.40	0.97	0.40
20.4	21.0	0.60	0.37	0.62
21.0	22.7	1.70	0.78	0.46
22.7	24.1	1.40	0.80	0.57
24.1	25.3	1.20	0.20	0.17
25.3	27.1	1.80	0.56	0.31
27.1	29.6	2.50	1.62	0.65
29.6	30.2	0.60	0.38	0.63
30.2	32.5	2.30	1.02	0.44
32.5	33.2	0.70	0.00	0.00
33.2	36.3	3.10	1.99	0.64
36.3	39.3	3.00	2.20	0.73
39.3	41.5	2.20	1.00	0.45
41.5	42.4	0.90	1.00	1.11
42.4	44.2	1.80	0.55	0.31
44.2	45.4	1.20	0.62	0.52
45.4	48.2	2.80	1.56	0.56
48.2	48.5	0.30	0.00	0.00
48.5	51.3	2.80	0.97	0.35
51.3	51.5	0.20	0.00	0.00
51.5	52.6	1.10	0.30	0.27
52.6	54.6	2.00	0.83	0.42
54.6	55.8	1.20	0.22	0.18
55.8	57.6	1.80	0.63	0.35

Project McVicar Lake **Hole** MV97-4

Technical Log

Core Recovery Log

From	To	Width (metres)	Length of Core	% Core Recovery
57.6	59.6	2.00	2.05	103
59.6	60.7	1.10	0.96	87
60.7	63.7	3.00	3.01	100
63.7	66.8	3.10	3.05	98
66.8	69.5	2.70	2.81	104
69.5	69.8	0.30	0.25	83
69.8	72.8	3.00	3.01	100
72.8	75.9	3.10	3.01	97
75.9	78.9	3.00	2.97	99
78.9	82.0	3.10	2.98	96
82.0	85.0	3.00	3.00	100
85.0	88.1	3.10	2.92	94
88.1	90.4	2.30	2.25	98
90.4	91.1	0.70	0.78	111
91.1	94.0	2.90	2.84	98
94.0	94.2	0.20	0.18	90
94.2	97.1	2.90	2.94	101
97.1	100.1	3.00	3.09	103
100.1	101.2	1.10	0.95	86
101.2	103.3	2.10	2.12	101
103.3	106.4	3.10	2.96	95
106.4	109.4	3.00	3.02	101
109.4	112.5	3.10	3.09	100
112.5	115.5	3.00	3.02	101
115.5	118.0	2.50	2.37	95
118.0	118.6	0.60	0.67	112
118.6	121.6	3.00	3.09	103
121.6	124.7	3.10	3.03	98
124.7	127.7	3.00	2.91	97
127.7	130.8	3.10	3.06	99
130.8	133.8	3.00	3.02	101

RQD Log

From	To	Width (metres)	Total Core >13cm for BD	RQD
57.6	59.6	2.00	0.48	0.24
59.6	60.7	1.10	0.50	0.45
60.7	63.7	3.00	1.58	0.53
63.7	66.8	3.10	2.42	0.78
66.8	69.5	2.70	1.07	0.40
69.5	69.8	0.30	0.00	0.00
69.8	72.8	3.00	1.82	0.61
72.8	75.9	3.10	1.33	0.43
75.9	78.9	3.00	1.70	0.57
78.9	82.0	3.10	1.91	0.62
82.0	85.0	3.00	1.94	0.65
85.0	88.1	3.10	1.06	0.34
88.1	90.4	2.30	0.96	0.42
90.4	91.1	0.70	0.30	0.43
91.1	94.0	2.90	1.30	0.45
94.0	94.2	0.20	0.00	0.00
94.2	97.1	2.90	1.93	0.67
97.1	100.1	3.00	2.40	0.80
100.1	101.2	1.10	0.74	0.67
101.2	103.3	2.10	1.95	0.93
103.3	106.4	3.10	2.00	0.65
106.4	109.4	3.00	2.03	0.68
109.4	112.5	3.10	1.02	0.33
112.5	115.5	3.00	1.30	0.43
115.5	118.0	2.50	1.48	0.59
118.0	118.6	0.60	0.48	0.80
118.6	121.6	3.00	2.01	0.67
121.6	124.7	3.10	1.78	0.57
124.7	127.7	3.00	1.27	0.42
127.7	130.8	3.10	2.25	0.73
130.8	133.8	3.00	2.34	0.78

Project McVicar Lake **Hole** MV97-4

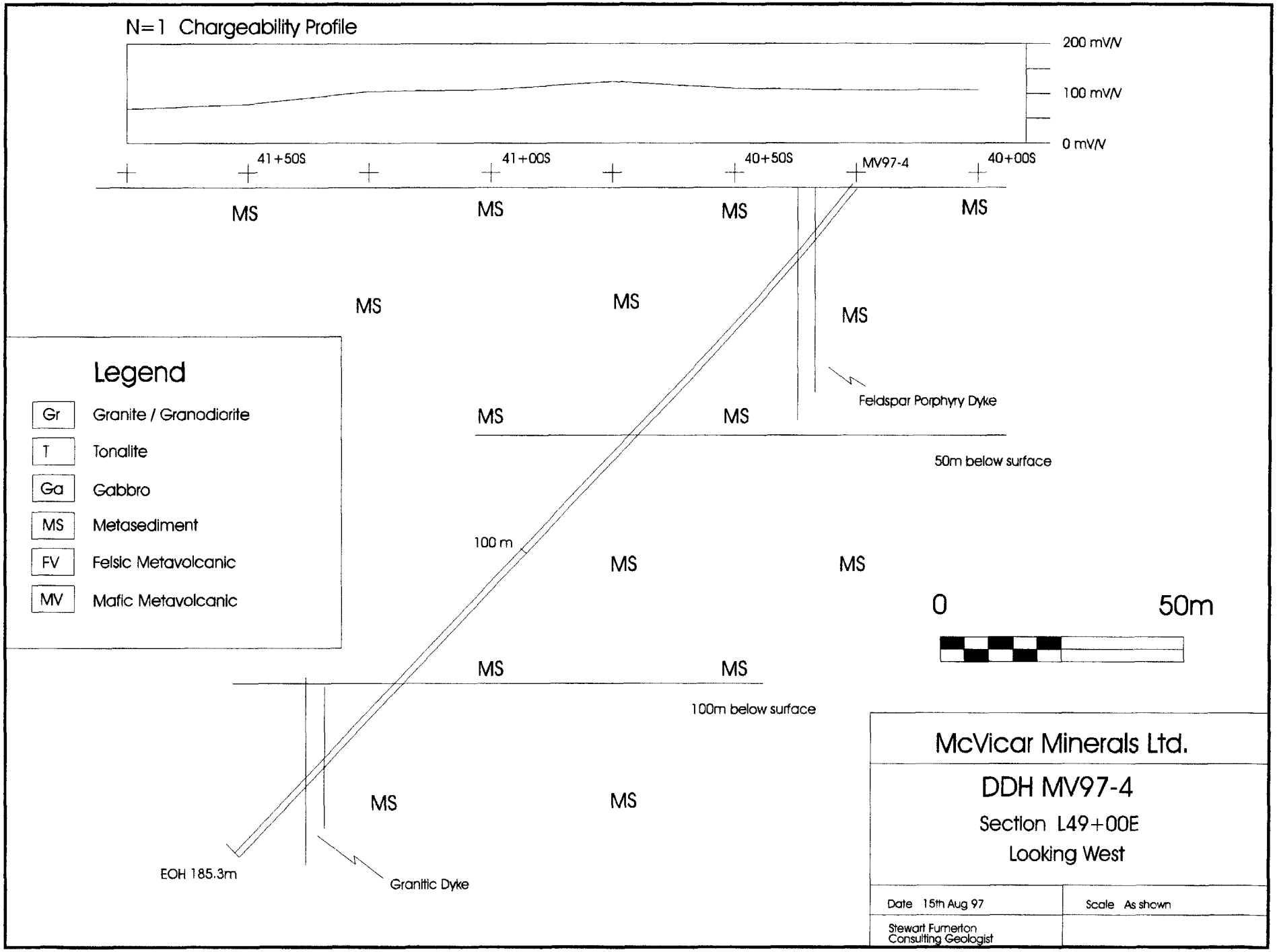
Technical Log

Core Recovery Log

From	To	Width (metres)	Length of Core	% Core Recovery
133.8	136.9	3.10	3.01	97
136.9	139.9	3.00	3.05	102
139.9	143.0	3.10	3.05	98
143.0	145.4	2.40	2.41	100
145.4	146.0	0.60	0.66	110
146.0	148.7	2.70	2.73	101
148.7	149.0	0.30	0.33	110
149.0	151.6	2.60	2.52	97
151.6	152.1	0.50	0.51	102
152.1	154.7	2.60	2.62	101
154.7	155.1	0.40	0.30	75
155.1	156.8	1.70	1.47	86
156.8	158.2	1.40	1.62	116
158.2	160.9	2.70	2.70	100
160.9	161.2	0.30	0.23	77
161.2	162.9	1.70	1.25	74
162.9	164.0	1.10	1.36	124
164.0	164.3	0.30	0.21	70
164.3	166.1	1.80	1.55	86
166.1	167.3	1.20	1.48	123
167.3	169.8	2.50	2.20	88
169.8	170.4	0.60	0.63	105
170.4	173.4	3.00	2.94	98
173.4	175.4	2.00	1.89	95
175.4	176.5	1.10	1.08	98
176.5	179.5	3.00	2.98	99
179.5	180.9	1.40	1.23	88
180.9	182.6	1.70	1.70	100
182.6	185.5	2.90	2.80	97
			Total	97

RQD Log

From	To	Width (metres)	Total Core >13cm for BD	RQD
133.8	136.9	3.10	1.88	0.61
136.9	139.9	3.00	2.08	0.69
139.9	143.0	3.10	2.30	0.74
143.0	145.4	2.40	1.52	0.63
145.4	146.0	0.60	0.54	0.90
146.0	148.7	2.70	1.94	0.72
148.7	149.0	0.30	0.21	0.70
149.0	151.6	2.60	2.45	0.94
151.6	152.1	0.50	0.38	0.76
152.1	154.7	2.60	2.10	0.81
154.7	155.1	0.40	0.27	0.67
155.1	156.8	1.70	0.79	0.46
156.8	158.2	1.40	0.92	0.66
158.2	160.9	2.70	1.73	0.64
160.9	161.2	0.30	0.00	0.00
161.2	162.9	1.70	0.00	0.00
162.9	164.0	1.10	0.00	0.00
164.0	164.3	0.30	0.00	0.00
164.3	166.1	1.80	0.35	0.19
166.1	167.3	1.20	0.33	0.27
167.3	169.8	2.50	0.58	0.23
169.8	170.4	0.60	0.00	0.00
170.4	173.4	3.00	1.88	0.63
173.4	175.4	2.00	0.54	0.27
175.4	176.5	1.10	1.03	0.94
176.5	179.5	3.00	1.74	0.58
179.5	180.9	1.40	0.00	0.00
180.9	182.6	1.70	0.63	0.37
182.6	185.5	2.90	1.13	0.39


N=1 Chargeability Profile
200 mV/V
100 mV/V
0 mV/V
41+50S
41+00S
40+50S
MV97-4
40+00S
MS
Feldspar Porphyry Dyke
50m below surface
100 m
100m below surface
EOH 185.3m
Granitic Dyke
Legend
Gr Granite / Granodiorite
T Tonalite
Ga Gabbro
MS Metasediment
FV Felsic Metavolcanic
MV Mafic Metavolcanic
0
50m
McVicar Minerals Ltd.
DDH MV97-4
Section L49+00E
Looking West
Date 15th Aug 97
Scale As shown
Stewart Furnerton
Consulting Geologist

Project	McVicar Lake
Area	McVicar Lake
Hole	MV97-5
Core Size	BDBDGM
Date started	17th August 1997
Date finished	19th August 1997
Geologist	Stew Fumerton
Drill Company	W.G. Langley

Collar Co-ordinates

	Grid	UTM
Grid	Sor Lake	
Easting	L55+80E	
Northing	45+50S	
Elevation		
Depth	109.4 m	
Overburden	4.6 m	
Units	Metres	

Survey

	Direction	Inclination
Surface	Grid S	45
100m		38

Instrument

Acid Uncorrected 46 deg

Casing 15' of BW casing inserted and removed upon completion of the hole.

Reason drilled To test a series of quartz veins hosted in sheared and altered tonalite that has some iron carbonate and sericite alteration. The anastomising veins returned assays up to 2.3 g/t gold in channel samples.

Results The hole intersected extensive shearing and alteration throughout the hole with some disseminated pyrite and minor quartz veining. The structural and alteration are favourable hosts for gold mineralization, but no significant gold values were returned. The foliated arenaceous siltstone intersected in the hole corresponds with what has been mapped as sheared tonalite on surface. However, in the core no quartz veining occurs in the unit.

Skeleton Log

From m	To m	Lithology
0.00	4.60	Overburden
4.60	76.50	Chlorite / Carbonate Schist, (Porphyroclastic Mylonitr)
76.50	78.30	Biotite / Carbonate Schist
78.30	84.00	Chlorite / Carbonate Schist
84.00	96.00	Foliated Arenaceous Siltstone
96.00	109.40	Chlorite / Carbonate Schist

Significant Assays

From m	To m	Value g/t
		None

McVicar Minerals **Project** **McVicar Lake** **Page** **2** **of** **7**

Diamond Drill Log **Hole** **MV97-5**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	seri-cite 0-3	CO3 0-3	Mineralization py %	cpy %	aspy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
1		**0-4.6m, Overburden**													
2															
3															
4		**4.6-76.5m Chlorite / Carbonate Schist**	**1**	**3**	**0**	**3**	**Tr**	**0**	**0**						
5		**(Porphyroclastic Mylonite)**													
6		The unit has a strong schistosity with								5.00	6.00	1.00	743336	<0.005	
7		alternating chlorite rich lamellae and quartz													
8		dolomite. Lamellae are <<3mm thick,													
9	37	whispy with local kink folds and rotated								8.00	9.00	1.00	743337	<0.005	
10		quartz porphyroclasts which may be													
1		remnants of Qz veins. These are <1cm &													
2		unevenly distriuted. The matrix typically								11.00	12.00	1.00	743338	<0.005	
3		has <<1mm grain size, and is medium green.													
4		Locally in less sheared sections (9-11m)													
5		the protolith appears to be the								14.00	15.00	1.00	743339	<0.005	
6	34	arenaceous sandstone-siltstone. Pyrite													
7		occurs as minute specks sparsely dissem-								16.50	17.50	1.00	743340	<0.005	
8		inated in the matrix. Schistosity 37 deg													
9		at9m, 34 deg @ 16m and 30 deg 24m.													
20		at 17m a number od Qz/dolomite lamellae								19.00	20.00	1.00	743341	<0.005	
1		contain 50% pyrite.													
2															
3										22.00	23.00	1.00	743342	<0.005	
4	30														
5															
6										25.00	26.00	1.00	743343	<0.005	
7															
8															
9										28.00	29.00	1.00	743344	<0.005	
30			**1**	**3**	**1**	**2**	**Tr**	**0**	**0**						

McVicar Minerals **Project** **McVicar Lake** **Page** **3** **of** **7**

Diamond Drill Log **Hole** **MV97-5**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	serl-cite 0-3	CO3 0-3	Mineralization py %	cpy %	aspy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
31		**Chlorite / Carbonate Schist Cont:-**	**1**	**3**	**1**	**2**	**Tr**	**0**	**0**						
2		29-41.4m, Quartz / Dolomite lamellae are								31.00	32.00	1.00	743345	<0.005	
3		attenuated.													
4		31.5m, 10cm zone of strong bleaching													
5		sericite alteration.								34.00	35.00	1.00	743346	<0.005	
6															
7			**0.5**	**3**	**0**	**2**	**Tr**	**0**	**0**						
8										37.00	38.00	1.00	743347	<0.005	
9															
40		39.9-42.2m, Quartz vein + some country													
1		rock selvedges	**7**	**3**	**1**	**2**	**1**	**0**	**0**	39.90	41.00	1.10	743348	<0.005	
2		41.4-42.3m, Py in trails parallel to schist								41.00	41.90	0.90	743349	0.190	
3		42.4m, 10cm arenaceous silt protolith	**1**	**3**	**0**	**2**	**Tr**	**0**	**0**	41.90	42.30	0.40	743350	0.045	
4		bedding parallel to schistosity													
5		42.4-56.6m, Quartz / dolomite lamellae													
6		poorly developed								45.00	46.00	1.00	743351	<0.005	
7	38														
8		47m, schistosity 38 deg to core													
9															
50										49.00	50.00	1.00	743352	<0.005	
1															
2															
3										52.00	53.00	1.00	743353	<0.005	
4	30														
5		54m, schistosity 30 deg to core axis													
6										55.00	56.00	1.00	743354	<0.005	
7		56.6-57.9m, arenite bedding transposed	**0**	**3**	**0**	**1**	**Tr**	**0**	**0**						
8		parallel to schistosity.													
9	25		**1**	**3**	**0**	**2**	**Tr**	**0**	**0**	58.00	59.00	1.00	743355	<0.005	
60		59m, schistosity 25 deg to core axis.													

McVicar Minerals **Project** **McVicar Lake** **Page** **4** **of** **7**

Diamond Drill Log **Hole** **MV97-5**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	serl-cite 0-3	CO3 0-3	Mineralization py %	cpy %	aspy %	From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
61		**Chlorite / Carbonate Schist Cont:-**	**1**	**3**	**0**	**2**	**Tr**	**0**	**0**						
2										61.00	62.00	1.00	743356	<0.005	
3		62m, 30cm zone with abundant lamellae													
4															
5		64-76.5m, common quartz porphyroclasts	**10**	**3**	**0**	**3**	**Tr**	**0**	**0**	64.00	65.00	1.00	743357	<0.005	
6		plus attenuated Qz/Dolomite veins & kink													
7		folds. Very fine grains of pyrite sparsely													
8		disseminated in the matrix.								67.00	68.00	1.00	743358	<0.005	
9	40	68m, schistosity 40 deg to core axis													
70															
1			**3**	**3**	**0**	**2**	**Tr**	**0**	**0**	70.00	71.00	1.00	743359	<0.005	
2															
3															
4										73.00	74.00	1.00	743360	<0.005	
5															
6															
7		**76.5-78.3m Biotite / Carbonate Schist**	**0**	**4**	**0**	**2**	**0**	**0**	**0**	76.50	77.50	1.00	743361	<0.005	
8		Weak schistosity, 2 colours- dark brown								77.50	78.30	0.80	743362	<0.005	
9		off-white, diffuse lamellae, <1% V.F.G.	**0.5**	**3**	**1**	**2**	**0**	**0**	**0**						
80		magnetite disseminated in matrix.													
1		**78.3-84.0m, Chlorite / Carbonate Schist**													
2		Same unit as from 4.4 to 76.5m.								81.00	82.00	1.00	743363	<0.005	
3															
4															
5		**84.0-96.0m Foliated Arenaceous Siltstone**	**1**	**4**	**1**	**2**	**0**	**0**	**0**	84.00	85.00	1.00	743364	<0.005	
6		Gradual contacts, off-white, <0.5mm													
7		grains, relatively massive with poorly													
8		developed bedding. Pyrite occurs rarely								87.00	88.00	1.00	743365	<0.005	
9		as minute grains disseminated in the matrix	**0.5**	**3**	**0**	**2**	**0**	**0**	**0**						
90		Local zones with higher shearing + chlorite													

McVicar Minerals **Project** **McVicar Lake** **Page** **5** **of** **7**

Diamond Drill Log **Hole** **MV97-5**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	serl-cite 0-3	CO3 0-3	Mineralization py %	cpy %	aspy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
91		**Foliated Arenaceous Siltstone Cont:-**	**0**	**4**	**1**	**1**	**0**	**0**	**0**	90.00	91.00	1.00	743360	<0.005	
2															
3															
4		94-96m deformed zone with 20cm													
5		recrystalized microbreccia at top & 20cm	**0**	**3**	**1**	**1**	**0**	**0**	**0**	94.00	95.00	1.00	743369	<0.005	
6		of chloritic / carbonate shear near bottom								95.00	96.00	1.00	743368	<0.005	
7		**96.0-109.4m, Chlorite / Carbonate Schist**	**1**	**3**	**0**	**2**	**0**	**0**	**0**						
8		Same unit as from 4.4 to 76.5m but rare													
9		specks of pyrite in matrix.								98.00	99.00	1.00	743369	<0.005	
100															
1															
2										101.00	102.00	1.00	743370	<0.005	
3															
4															
5										104.00	105.00	1.00	743371	<0.005	
6															
7															
8															
9															
110		**109.4m, End of Hole**													

Project McVicar Lake Hole MV97-5

Technical Log

Core Recovery Log

From	To	Width (metres)	Length of Core	% Core Recovery
4.6	5.8	1.20	1.07	89
5.8	7.9	2.10	2.08	99
7.9	8.8	0.90	0.90	100
8.8	10.4	1.60	1.47	92
10.4	11.9	1.50	1.51	101
11.9	14.9	3.00	3.01	100
14.9	18.0	3.10	3.01	97
18.0	21.0	3.00	2.99	100
21.0	23.3	2.30	2.20	96
23.3	24.1	0.80	0.76	95
24.1	27.1	3.00	3.06	102
27.1	30.2	3.10	3.06	99
30.2	33.2	3.00	3.04	101
33.2	36.3	3.10	3.05	98
36.3	39.3	3.00	3.00	100
39.3	42.4	3.10	2.92	94
42.4	45.4	3.00	2.91	97
45.4	48.5	3.10	3.04	98
48.5	50.4	1.90	2.02	106
50.4	51.5	1.10	0.98	89
51.5	54.6	3.10	3.07	99
54.6	57.6	3.00	3.05	102
57.6	58.5	0.90	0.68	76
58.5	60.7	2.20	2.28	104
60.7	62.6	1.90	1.80	95
62.6	63.7	1.10	1.15	105
63.7	66.8	3.10	2.98	96
66.8	69.8	3.00	3.02	101
69.8	71.6	1.80	1.67	93
71.6	72.8	1.20	1.17	97
72.8	74.8	2.00	1.65	83

RQD Log

From	To	Width (metres)	Total Core >13cm for BD	RQD
4.6	5.8	1.20	0.60	0.50
5.8	7.9	2.10	1.41	0.67
7.9	8.8	0.90	0.73	0.81
8.8	10.4	1.60	0.57	0.36
10.4	11.9	1.50	1.13	0.75
11.9	14.9	3.00	2.10	0.70
14.9	18.0	3.10	1.96	0.63
18.0	21.0	3.00	2.82	0.94
21.0	23.3	2.30	1.26	0.55
23.3	24.1	0.80	0.16	0.20
24.1	27.1	3.00	2.36	0.79
27.1	30.2	3.10	2.85	0.92
30.2	33.2	3.00	2.68	0.89
33.2	36.3	3.10	2.49	0.80
36.3	39.3	3.00	1.73	0.58
39.3	42.4	3.10	1.44	0.46
42.4	45.4	3.00	1.58	0.53
45.4	48.5	3.10	2.33	0.75
48.5	50.4	1.90	0.78	0.41
50.4	51.5	1.10	0.43	0.39
51.5	54.6	3.10	2.58	0.83
54.6	57.6	3.00	2.22	0.74
57.6	58.5	0.90	0.18	0.20
58.5	60.7	2.20	1.98	0.90
60.7	62.6	1.90	1.07	0.56
62.6	63.7	1.10	0.28	0.25
63.7	66.8	3.10	2.30	0.74
66.8	69.8	3.00	2.07	0.69
69.8	71.6	1.80	0.67	0.37
71.6	72.8	1.20	0.63	0.52
72.8	74.8	2.00	1.13	0.57

Project McVicar Lake Hole MV97-5

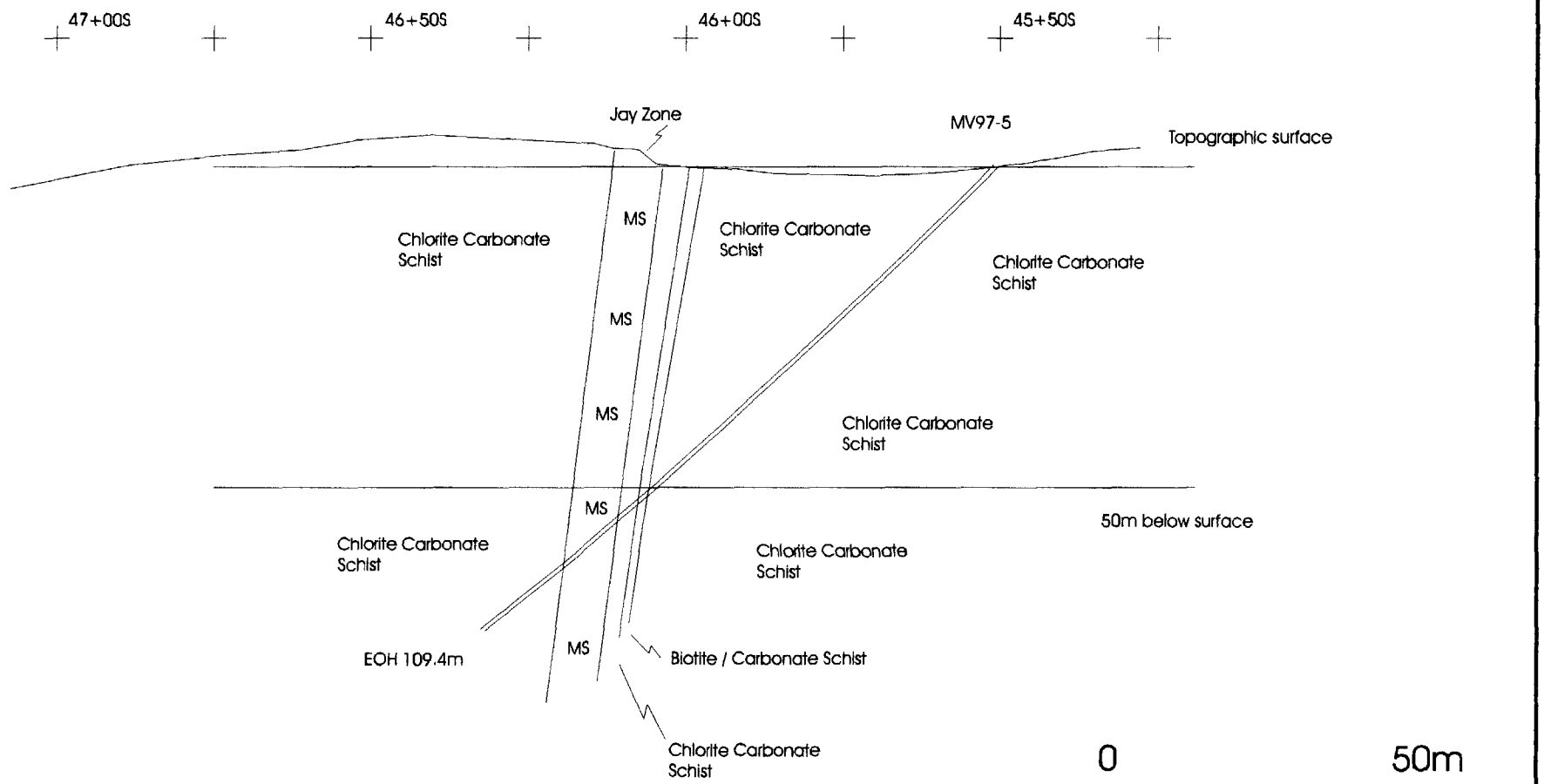
Technical Log

Core Recovery Log

From	To	Width (metres)	Length of Core	% Core Recovery
74.8	75.9	1.10	1.32	120
75.9	78.9	3.00	2.96	99
78.9	80.8	1.90	1.66	87
80.8	82.0	1.20	1.32	110
82.0	83.8	1.80	1.77	98
83.8	85.0	1.20	1.20	100
85.0	86.9	1.90	1.90	100
86.9	88.1	1.20	1.10	92
88.1	91.1	3.00	2.97	99
91.1	93.7	2.60	2.47	95
93.7	95.4	1.70	1.45	85
95.4	96.8	1.40	1.35	96
96.8	98.1	1.30	1.22	94
98.1	100.3	2.20	2.05	93
100.3	102.7	2.40	2.35	98
102.7	103.3	0.60	0.60	100
103.3	106.4	3.10	3.05	98
106.4	109.4	3.00	2.96	99
			Total	98

RQD Log

From	To	Width (metres)	Total Core >13cm for BD	RQD
74.8	75.9	1.10	1.09	0.99
75.9	78.9	3.00	2.20	0.73
78.9	80.8	1.90	0.72	0.38
80.8	82.0	1.20	0.82	0.68
82.0	83.8	1.80	0.58	0.32
83.8	85.0	1.20	0.97	0.81
85.0	86.9	1.90	0.70	0.37
86.9	88.1	1.20	0.62	0.52
88.1	91.1	3.00	1.64	0.55
91.1	93.7	2.60	1.22	0.47
93.7	95.4	1.70	0.18	0.11
95.4	96.8	1.40	0.00	0.00
96.8	98.1	1.30	0.30	0.23
98.1	100.3	2.20	0.80	0.36
100.3	102.7	2.40	0.62	0.26
102.7	103.3	0.60	0.36	0.60
103.3	106.4	3.10	2.05	0.66
106.4	109.4	3.00	2.11	0.70



Legend

Gr	Granite / Granodiorite
T	Tonalite
Ga	Gabbro
MS	Metasediment
FV	Felsic Metavolcanic
MV	Mafic Metavolcanic

McVicar Minerals Ltd.

DDH MV97-5

Section L55+80E

Looking West

Date 21st Aug 97	Scale As shown
Stewart Fumerton Consulting Geologist	

Project	McVicar Lake
Area	McVicar Lake
Hole	MV97-6
Core Size	BDBDGM
Date started	20th August 97
Date finished	22nd August 97
Geologist	Stew Fumerton
Drill Company	W.G. Langley

Collar Co-ordnates

	Grid	UTM
Grid	Semla Lake	
Easting	L13+00W	
Northing	0+30S	
Elevation		
Depth	121.6 m	
Overburden	4.6 m	
Units	Metres	

Survey

	Direction	Inclination
Surface	Grid S	47
121m		44

Instrument Acid Uncorrected 52 deg

Casing 20' of BW casing inserted in the hole, but 15' had to be abandoned after completion of the hole. The casing deflected while being driven and the drill had to be re-aligned from the original 50 deg declination

Reason drilled To test a strong EM anomaly that was interpreted to be sulphide facies iron formation.

Results No indication of the interpreted banded iron formation was intersected. However, a sequence of altered mafic and felsic metavolcanic breccias were intersected and associated with some massive sulphides. The whole sequence would appear favourable to host a base metal massive sulphide deposit. Abundant fractures in the upper 25m and associated with the sulphides, could be channels for ground water flow, re-enforcing the EM geophysical anomalies.

Skeleton Log

From m	To m	Lithology
0.00	5.00	Overburden
5.00	7.00	Felsic Dyke
7.00	11.80	Mafic Metavolcanic - Diorite
11.80	16.20	Felsic Dyke
16.20	19.50	Breccia + Massive Sulphides
19.50	27.00	Mafic Metavolcanic - Diorite
27.00	29.50	Quartz / Calcite Stockwork in Mafic Metavolcanics
29.50	69.00	Mafic Metavolcanics
69.00	78.05	Mafic Metvolcanic Breccia
78.05	80.20	Felsic Tuff
80.20	93.00	Granitic Breccia
93.00	117.20	Felsic Metavolcanic Breccia
117.20	121.60	Feldspar Porphyry

Significant Assays

From m	To m	Value g/t
		None

McVicar Minerals **Project** **McVicar Lake** **Page** **2** **of** **7**

Diamond Drill Log **Hole** **MV97-6**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	seri-cite 0-3	CO3 0-3	Mineralization py %	po %	cpy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
1		**0-5m, Overburden**													
2															
3															
4															
5															
6		**5-7m, Felsic Dyke**	**0**	**5**	**0**	**0**	**0**	**0**	**0**						
7		**7-11.8m, Mafic Metavolcanic - Diorite**													
8		Dark green, <1mm grains, massive, some	**0.2**	**5**	**0**	**0**	**Tr**	**0**	**0**						
9		feldspar laths, saussuritized fractures.													
10		Pyrite disseminated in matrix.								9.00	10.00	1.00	743372	<0.005	
1		11.2-11.5m pink granitic dyke.													
2		**11.8-16.2m, Felsic Dyke**													
3		Light grey, VFG with abundant chloritized	**1**	**4**	**0**	**1**	**0**	**Tr**	**Tr**						
4		mafic volcanic breccia fragments. Cal/Qz								13.00	14.00	1.00	743373	<0.005	
5		stockwork of <3mm veins. Foliation 43deg													
6	43	12.3-12.6m Feld Porphyry dyke													
7		**16.2-19.5m, Breccia + Massive Sulphides**	**0**	**4**	**0**	**1**	**10**	**2**	**1**	16.20	17.20	1.00	743374	<0.005	
8		Brecciated & chloritic felsic + mafic MV								17.20	18.20	1.00	743375	<0.005	
9		Massive, botryiodal Py in 3x20cm intervals								18.20	19.50	1.30	743376	<0.005	
20		& in fractures. Po + cpy conc at edges								19.50	20.00	0.50	743377	<0.005	
1		**19.5-27m Mafic Metavolcanic - Diorite**	**0**	**4**	**0**	**1**	**1**	**Tr**	**0**	20.00	21.00	1.00	743378	<0.005	
2		Dark green, medium to fine grained,								21.00	22.00	1.00	743379	<0.005	
3		massive mafic volcanic. Some disseminated													
4		pyrite + pyrrhotite adjacent to veins +													
5		fractures & felsic dykelets													
6		22.3-23m, Felsic dyke + breccia.													
7		26.6-27m Breccia in Felsic Dyke													
8		**27-29.5m, Qz/Calcite Stockwork in MV**	**20**	**5**	**0**	**2**	**0.1**	**0**	**0**	27.00	28.00	1.00	743380	<0.005	
9		Some biotite alteration of mafic volcanics								28.00	29.00	1.00	743381	<0.005	
30										29.00	29.50	0.50	743382	<0.005	

McVicar Minerals **Project** **McVicar Lake** **Page** **3** **of** **7**

Diamond Drill Log **Hole** **MV97-6**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	seri-cite 0-3	CO3 0-3	Mineralization py %	po %	cpy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
31		**29.5-69m, Mafic Metavolcanics**	**50**	**6**	**0**	**0**	**0**	**0**	**0**	29.50	31.00	1.50	743383	<0.005	
2		Dark green, fine grained, massive mafic								31.00	32.10	1.10	743384	<0.005	
3		volcanics. Distinct from unit above.	**0.2**	**6**	**0**	**0**	**0**	**0**	**0**						
4		Hairline calcite/Qz veins which form open													
5		stockwork with some veins <2cm locally.													
6		29.5-32m, 20cm crackle quartz vein													
7		subparallel to the core.													
8															
9		The matrix of the metavolcanic contains													
40		finely disseminated magnetite													
1										40.00	41.00	1.00	743385	<0.005	
2															
3															
4															
5															
6															
7															
8															
9															
50															
1		50.8-51.2m pink felsic dyke								50.00	50.80	0.80	743386	<0.005	
2															
3															
4															
5		55.1 & 55.3m 10cm white felsic dykes													
6		56-56.4m, white felsic dyke.													
7		57.5-57.8m, white felsic dyke.													
8															
9															
60		59.5m, 10cm pink felsic dyke													

McVicar Minerals **Project** **McVicar Lake** **Page** **4** **of** **7**

Diamond Drill Log **Hole** **MV97-6**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	Seri-cite 0-3	CO3 0-3	Mineralization py %	po %	cpy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
61		**Mafic Metavolcanics Cont:-**	**0.2**	**5**	**0**	**0**	**0**	**0**	**0**						
2		60.4-60.7m, white felsic dyke								61.00	62.00	1.00	743382	<0.005	
3															
4															
5															
6		64.5-69m, pink felsic dykelets form a	**0**	**6**	**0**	**0**	**Tr**	**0**	**0**						
7		stockwork and locally breccia with mafic													
8		volcanic rocks as angular fragments.													
9		**69-78.05m, Mafic Volcanic Breccia**													
70		30% of rock is formed of <5cm angular	**1**	**4**	**0**	**2**	**0.1**	**0**	**0**						
1		volcanic fragments set in a foliated,													
2		off-white, medium grained matrix. Lots of								71.00	72.00	1.00	743388	<0.005	
3		calcite & quartz in matrix and possible													
4		fine grained biotite in fragments. Py is	**1**	**6**	**0**	**1**	**0.1**	**0**	**0**						
5		sparsely disseminated. Unit could be an								74.00	75.00	1.00	743389	<0.005	
6		altered hyaloclastite.	**1**	**4**	**0**	**2**	**0.1**	**0**	**0**						
7		73-75m , breccia matrix silicified													
8		73-74m, 5cm felsic dykes form stockwork													
9		**78.05-80.2m, Felsic Tuff**	**0**	**5**	**1**	**1**	**0**	**0**	**0**						
80		F.G & M.G. whispy lamellae <2cm thick								79.00	80.20	1.20	743390	<0.005	
1		**80.2-93.0m, Granitic Breccia**	**0**	**6**	**0**	**0**	**Tr**	**0**	**0**						
2		Stockwork of felsic dykes fragmented the													
3		mafic volcanics. Where dykes are up to													
4		0.5m true agmatitic breccia. Disseminated													
5		pyrite adjacent to some felsic dykes.													
6										85.00	86.00	1.00	743390	0.015	
7															
8															
9		88.8-90.2m, Fine grained felsic dyke	**0**	**5**	**0**	**0**	**Tr**	**0**	**0**						
90										89.00	90.00	1.00	743392	<0.005	

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	Seri-cite 0-3	CO3 0-3	Mineralization py %	po %	cpy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
91		**Breccia Cont:-**	0	5	0	0	Tr	0	0						
2		92.1-93m, several 2cm bands of 1mm,													
3	50	massive pyrrhotite grains with some	0	5	0	1	1	6	0	92.10	93.00	0.90	743393	0.025	
4		pyrite grains in the centre of the bands.	0	5	1	1	Tr	0	0						
5		**93-101.25m, Felsic Volcanic Breccia**													
6		Angular to rounded felsic volcanic								95.00	96.00	1.00	743394	<0.005	
7		fragments in light grey, aphanitic felsic													
8		volcanic matrix. Polymictic fragments &													
9	70	some tuff bands <5cm. Some sericite +													
100		minor pyrite & ilmenite on foliation planes													
1										100.00	101.00	1.00	743395	<0.005	
2		**101.25-103.95m, Mafic Volcanic Breccia**	4	5	0	1	0.1	0	0						
3		Same as at 69m. Pyrite disseminated													
4		in mafic fragments.													
5		**103.95-117.2m, Felsic Volcanic Breccia**	1	5	1	1	0	0	0	103.95	105.00	1.05	743396	0.005	
6		Similar to 93m. Most quartz veining +													
7		sericite concentrated at top contact.													
8		Fragments more visible than at 93m and													
9		includes some <5cm felsic dykelets													
110															
1															
2		11.6-112.8m, mafic volcanic horizon													
3	75	112.8-113.2m sericitic shear zone at 75													
4		deg to core								112.80	114.00	1.20	743397	0.015	
5															
6															
7															
8		**117.2-121.6m, Feldspar Porphyry**	0	5	0	1	Tr	0	0						
9		<1cm clusters of feldspar phenocrysts													
120		form 15% in F.G. green-grey felsic matrix													

Project McVicar Lake Hole MV97-6

Technical Log

Core Recovery Log

From	To	Width (metres)	Length of Core	% Core Recovery
6.1	8.8	2.70	1.83	68
8.8	10.7	1.90	1.78	94
10.7	11.9	1.20	1.21	101
11.9	14.9	3.00	2.70	90
14.9	16.5	1.60	1.48	93
16.5	18.0	1.50	1.46	97
18.0	21.0	3.00	2.94	98
21.0	23.5	2.50	2.35	94
23.5	24.1	0.60	0.59	98
24.1	25.8	1.70	1.48	87
25.8	26.2	0.40	0.41	103
26.2	27.1	0.90	0.82	91
27.1	30.2	3.10	3.00	97
30.2	33.2	3.00	3.00	100
33.2	36.3	3.10	3.15	102
36.3	39.3	3.00	3.05	102
39.3	42.4	3.10	3.04	98
42.4	45.4	3.00	3.07	102
45.4	48.5	3.10	3.04	98
48.5	51.5	3.00	3.00	100
51.5	54.6	3.10	3.07	99
54.6	57.6	3.00	3.01	100
57.6	60.7	3.10	3.06	99
60.7	63.7	3.00	3.03	101
63.7	66.8	3.10	3.07	99
66.8	69.8	3.00	3.03	101
69.8	72.8	3.00	3.04	101
72.8	75.9	3.10	3.06	99
75.9	78.9	3.00	3.05	102
78.9	82.0	3.10	2.98	96
82.0	85.0	3.00	3.04	101

RQD Log

From	To	Width (metres)	Total Core >13cm for BD	RQD
6.1	8.8	2.70	0.91	0.34
8.8	10.7	1.90	0.56	0.29
10.7	11.9	1.20	0.80	0.67
11.9	14.9	3.00	0.90	0.30
14.9	16.5	1.60	0.13	0.08
16.5	18.0	1.50	0.67	0.45
18.0	21.0	3.00	1.71	0.57
21.0	23.5	2.50	1.30	0.52
23.5	24.1	0.60	0.20	0.33
24.1	25.8	1.70	0.43	0.25
25.8	26.2	0.40	0.00	0.00
26.2	27.1	0.90	0.40	0.44
27.1	30.2	3.10	2.30	0.74
30.2	33.2	3.00	2.40	0.80
33.2	36.3	3.10	2.53	0.82
36.3	39.3	3.00	2.24	0.75
39.3	42.4	3.10	2.72	0.88
42.4	45.4	3.00	2.10	0.70
45.4	48.5	3.10	2.85	0.92
48.5	51.5	3.00	2.39	0.80
51.5	54.6	3.10	2.15	0.69
54.6	57.6	3.00	2.64	0.88
57.6	60.7	3.10	2.60	0.84
60.7	63.7	3.00	2.31	0.77
63.7	66.8	3.10	2.63	0.85
66.8	69.8	3.00	2.25	0.75
69.8	72.8	3.00	2.22	0.74
72.8	75.9	3.10	2.37	0.76
75.9	78.9	3.00	2.49	0.83
78.9	82.0	3.10	2.60	0.84
82.0	85.0	3.00	2.36	0.79

Project McVicar Lake Hole MV97-6

Technical Log

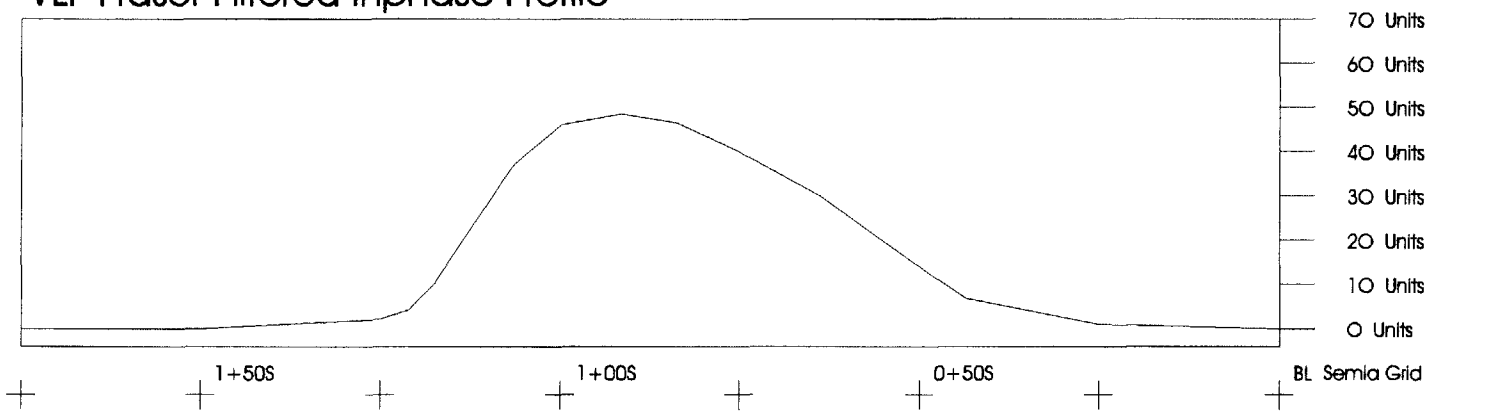
Core Recovery Log

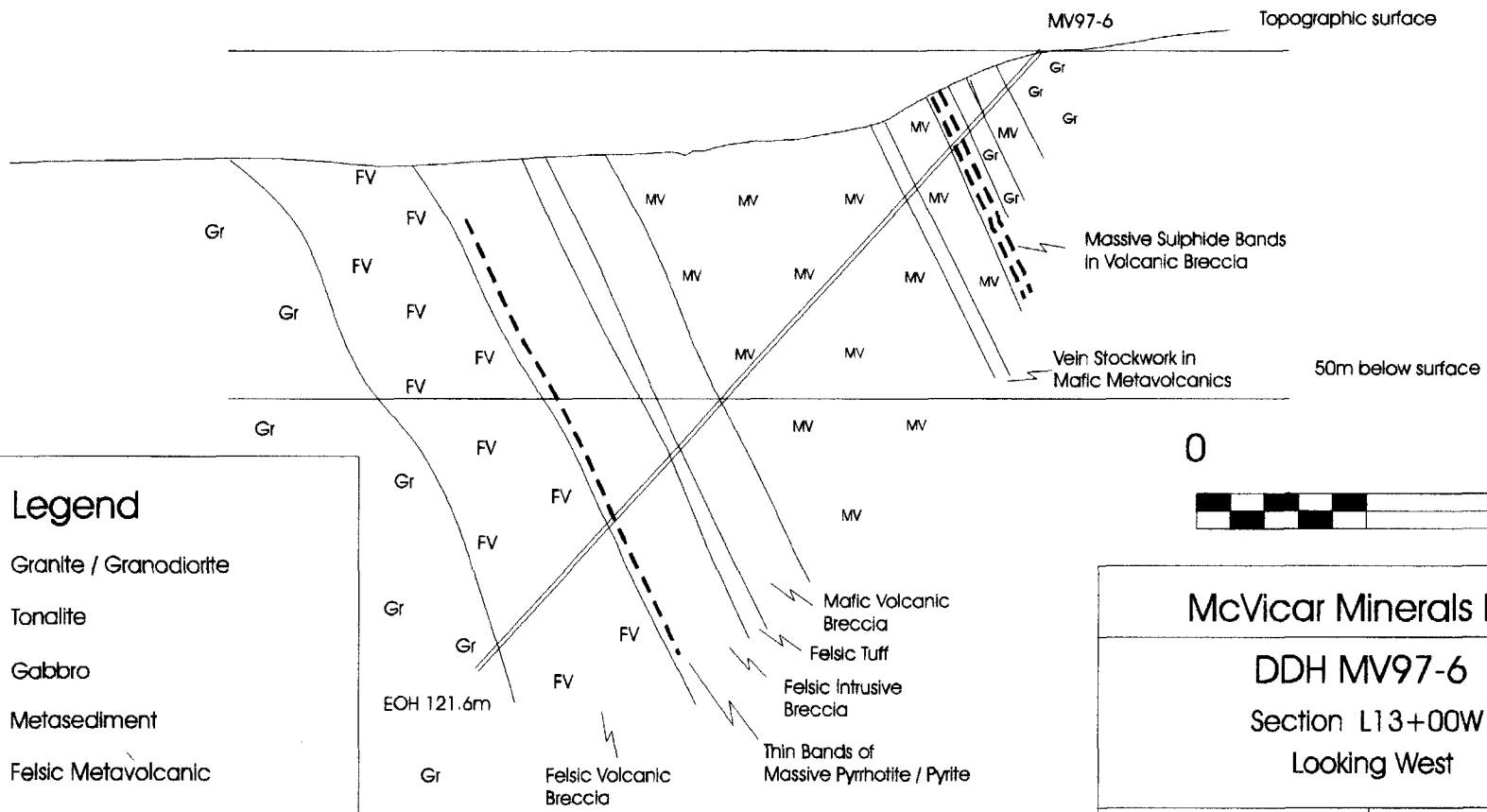
From	To	Width (metres)	Length of Core	% Core Recovery
85.0	88.1	3.10	3.02	97
88.1	91.1	3.00	3.03	101
91.1	94.2	3.10	3.03	98
94.2	97.2	3.00	3.01	100
97.2	100.3	3.10	3.04	98
100.3	103.3	3.00	3.02	101
103.3	106.1	2.80	2.62	94
106.1	109.1	3.00	3.08	103
109.1	112.2	3.10	3.03	98
112.2	115.2	3.00	2.98	99
115.2	118.3	3.10	2.97	96
118.3	121.3	3.00	3.06	102
121.3	121.6	0.30	0.35	117
			Total	98

RQD Log

From	To	Width (metres)	Total Core >13cm for BD	RQD
85.0	88.1	3.10	2.81	0.91
88.1	91.1	3.00	1.95	0.65
91.1	94.2	3.10	2.72	0.88
94.2	97.2	3.00	2.15	0.72
97.2	100.3	3.10	2.25	0.73
100.3	103.3	3.00	2.26	0.75
103.3	106.1	2.80	1.07	0.38
106.1	109.1	3.00	1.62	0.54
109.1	112.2	3.10	1.85	0.60
112.2	115.2	3.00	1.27	0.42
115.2	118.3	3.10	2.38	0.77
118.3	121.3	3.00	2.78	0.93
121.3	121.6	0.30	0.23	0.77

VLF Fraser Filtered Inphase Profile





0 50m

Legend

Gr	Granite / Granodiorite
T	Tonalite
Ga	Gabbro
MS	Metasediment
FV	Felsic Metavolcanic
MV	Mafic Metavolcanic
- - -	Conductor

McVicar Minerals Ltd.

DDH MV97-6

Section L13+00W

Looking West

Date 23rd Aug 97	Scale As shown
Stewart Fumerton Consulting Geologist	

Project	McVicar Lake
Area	McVicar Lake
Hole	MV97-7
Core Size	BDBDGM
Date started	22nd August 97
Date finished	24th August 97
Geologist	Stew Fumerton
Drill Company	W.G. Langley

Collar Co-ordinates

	Grid	UTM
Grid	Semla Lake	
Easting	L26+03W	
Northing	0+23S	
Elevation		
Depth	121.6 m	
Overburden	2.7 m	
Units	Metres	

Survey

	Direction	Inclination
Surface	Grid S	50
120m		43

Instrument

Acid Uncorrected 51 deg

Casing Inserted 7' of BW casing in the hole which was recovered upon completion.

JKS300 drill rig used.

Reason drilled To test a strong EM anomaly that was interpreted to be sulphide facies iron formation.

Results The hole did not intersect any iron formation sequence but did intersect a massive and semi massive sulphide intersection overlying an altered sequence of mafic pillowed flows which contain disseminated pyrite and pyrrhotite. Little chalcopyrite occurs in the core and no sphalerite but the environment appears to be favourable for a base metal volcanic massive sulphide deposit. No significant gold values were obtained.

Skeleton Log

From m	To m	Lithology
0.00	2.70	Overburden
2.70	6.00	Mafic Metavolcanics
6.00	14.80	Altered & Brecciated Mafic Metavolcanics
14.80	21.00	Pillowed Mafic Metavolcanics
21.00	31.90	Fragmental Metavolcanics
31.90	44.20	Mafic Metavolcanic Flow
44.20	61.50	Felsic Dyke Stockwork in Mafic Metavolcanics.
61.50	68.00	Mafic Metavolcanics
68.00	72.60	Sheared Mafic Metavolcanics
72.60	76.00	"Tuffwacke"
76.00	79.00	Felsic Metavolcanics
79.00	83.40	Massive and Semi Massive Sulphides
83.40	97.00	Altered Mafic Pillowed Metavolcanics + Sulphides
97.00	120.40	Altered Mafic Metavolcanics

Significant Assays

From m	To m	Value g/t Au
		None

McVicar Minerals **Project** **McVicar Lake** **Page** **2** **of** **8**

Diamond Drill Log **Hole** **MV97-7**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	seri-cite 0-3	CO3 0-3	Mineralization py %	po %	cpy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
1		**0-2.7m, Overburden**													
2															
3		**2.7-6m, Mafic Metavolcanics**	**0**	**5**	**0**	**0**	**0**	**0**	**0**						
4		Dark green, fine grain, massive with some													
5		<1cm calcite/quartz veins. Possible													
6		Fe Tholeiite													
7		**6-14.8m, Altered Brecciated Mafic Volc**	**2**	**5**	**1**	**1**	**Tr**	**Tr**	**0**						
8		Variable alteration, mostly near top from								7.00	8.00	1.00	743398	<0.005	
9		light grey to dark green. Sericite, carb &								8.00	9.00	1.00	743399	<0.005	
10		local shearing + brecciation. Common								8.00	10.00	1.00	743400	<0.005	
1		granodiorite dykes <0.5m which are locally								9.00	11.00	1.00	743401	<0.005	
2		saussuritized. Two ages of quartz veins.													
3		VFG quartz, <2cm associated with													
4		hydraulic fractures. These are cut by													
5		hairline calcite / quartz veins.													
6		**14.8-21m, Pillowed Mafic Volcanics**	**0**	**5**	**0**	**0**	**0.5**	**0.5**	**0**						
7		Dark green, fine grained massive rock													
8		with pillow selvages about a metre apart.													
9		<3mm calcite veins + some py & po veins.													
20		Sulphides sparsely disseminated in matrix.													
1															
2		**21.4-31.9m, Fragmental Metavolcanics.**	**0.5**	**3**	**1**	**1**	**0.5**	**0.5**	**0**						
3		Off-white to buff with local ghost								22.00	23.00	1.00	743402	<0.005	
4		fragments and local weak foliation.													
5		Fragments are <3cm, angular & rounded.								24.00	25.00	1.00	743403	<0.005	
6	70	Fragments have <2mm quartz grain in matrix													
7		Gradual upper contact and foliated parts								26.00	27.00	1.00	743404	0.01	
8		are <1mm grains, coarser than fragmental													
9		and may contain some sediment. Py & Po													
30		disseminated in matrix & in trails.													

McVicar Minerals **Project** **McVicar Lake** **Page** **3** **of** **8**

Diamond Drill Log **Hole** **MV97-7**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	seri-cite 0-3	CO3 0-3	Mineralization py %	po %	cpy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
31		30.2 & 30.9m <2cm band semi massive Po	**0.5**	**3**	**1**	**1**	**3**	**1**	**0**	30.00	31.00	1.00	743405	<0.005	
2		31.5m, 20cm of Po & Py in breccia matrix								31.00	31.90	0.90	743406	<0.005	
3		**31.9-44.2m, Mafic Flow**	**0.1**	**5**	**0**	**0**	**Tr**	**0**	**0**						
4		Sheared contact to Very fine grained,													
5		dark green metavolcanic that becomes													
6		coarser grained down hole. Second chill								35.00	36.00	1.00	743407	<0.005	
7		at 33.9m. Anhedral feldspar phenocrysts													
8		<3mm between 34 &38m. Pink felsic dykes													
9		1 - 10cm form 10% of unit. Qz / Calcite													
40		veins are <2mm thick. Medium grained py													
1		rare & in trails associated with some veins													
2															
3		43.1m, pillow selvage													
4															
5		**44-61.5m, Felsic dyke stockwork**	**1**	**5**	**0**	**1**	**Tr**	**0.1**	**0**						
6		Similar mafic metavolcanics as above with													
7		local 20cm zones of breccia cemented with								46.00	47.00	1.00	743408	<0.005	
8		carbonate + quartz. The unit is cut by													
9		numerous felsic dykes. Both fine grained													
50		pink & porphyritic off-white which are													
1		typically 2-20cm thick and form 20% of													
2		unit. First 60cm of unit is a pink dyke.													
3		Trails of pyrrhotite + pyrite locally													
4		associated with dyke contacts. Some													
5		quartz / calcite vein occur throughout													
6		and are < 1cm thick.													
7															
8										57.00	58.00	1.00	743409	0.01	
9															
60		60.5-61.5m, off-white porphyritic dyke.													

McVicar Minerals **Project** **McVicar Lake** **Page** **4** **of** **8**

Diamond Drill Log **Hole** **MV97-7**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	seri-cite 0-3	CO3 0-3	Mineralization py %	po %	cpy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
61		**Felsic dyke stockwork Cont:-**	1	5	0	1	Tr	0.1	0						
2															
3		**61.5-68m, Mafic Metavolcanics**	2	4	0	2	Tr	0	0						
4		Similar to unit above without the dykes													
5		but more calcite veins. These locally are													
6		diffuse with lower quartz content.								65.00	66.00	1.00	743410	<0.005	
7		63.6m, 20cm quartz vein													
8		63.8m, 30cm porphyritic dyke.													
9		**68-72.6m, Sheared Mafic Metavolcanics**	2	4	1	1	0.1	0	0	68.00	69.00	1.00	743411	<0.005	
70		Gradual upper contact & variable shearing													
1	60	Pale green, fine grained some bio alteration								70.00	71.00	1.00	743412	<0.005	
2		Pyrite unevenly distributed in unit.								71.00	72.00	1.00	743413	<0.005	
3		**72.6-76m, "Tuffwacke"**								72.00	72.60	0.60	743414	<0.005	
4		Variable mafic tuff to arenite grading to	1	4	1	1	Tr	4	0	72.60	73.40	0.80	743415	<0.005	
5		breccia and graphitic shale with Po + Py								73.40	74.30	0.90	743416	<0.005	
6		trails. 73.4m 10cm massive pyrrhotite													
7		75-76m felsic dyke with 30cm mafic dyke	0	5	1	0	0	Tr	0						
8		**76-79m, Felsic volcanics**								77.00	78.00	1.00	743417	<0.005	
9		Off-white-buff, F.G. massive, looks like													
80		felsic volcanic wet & siltstone dry.	0	5	0	0	3	20	0.1	79.00	79.35	0.35	743418	<0.005	
1		78.6-79m, mafic dyke													
2		**79- 83.4m Massive-Semi Massive Sulphide**								81.50	82.50	1.00	743419	<0.005	
3		Coarse grain, Po & Py, some graphite	0	5	0	0	5	2	0	82.50	83.40	0.90	743420	<0.005	
4		Cpy in late fractures. Some graphitic shale								83.40	84.00	0.60	743421	<0.005	
5		Altered volc 79.35 - 81.5m.								84.00	85.00	1.00	743422	<0.005	
6		**83.4-97.4m, Altered Pillowed Flows**								85.00	86.00	1.00	743423	<0.005	
7		Medium grey, F.G. altered mafic pillowed								86.00	87.00	1.00	743424	<0.005	
8		flows. Sulphides disseminated through-								87.00	88.00	1.00	743425	<0.005	
9		out with local concentrations in core of								88.00	89.00	1.00	743426	<0.005	
90		pillows. Po also in hairline fractures. Py								89.00	90.00	1.00	743427	<0.005	

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	seri-cite 0-3	CO3 0-3	Mineralization py %	po %	cpy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
91		**Altered Pillowed Flows Cont:-**	**0**	**5**	**0**	**0**	**5**	**2**	**0**	90.00	91.00	1.00	743428	<0.005	
2		at <1mm is coarser than Po and also								91.00	92.00	1.00	743429	<0.005	
3		occurs locally in aggregates.													
4		94-97.4m gradual change into unaltered													
5		mafic pillowed flows.	**0.5**	**5**	**0**	**0**	**Tr**	**0**	**0**						
6															
7															
8		**97.4- 120.4m, Altered Mafic Metavolcanics**	**2**	**4**	**0**	**1**	**Tr**	**0.1**	**0**						
9		Light grey to medium green, F.G. with													
100		irregular & diffuse carbonate veins. Local													
1		20-50cm brecciated sections with													
2		carbonate cement. Po occurs locally with													
3		carbonate veins. 5% f unit intruded with													
4		stockwork of off-white porphyritic dykes													
5		<3cm thick.													
6	60														
7		107-107.6m, Po trials parallel to													
8		foliation at 60 deg to core axis								107.00	108.00	1.00	7E+06	<0.005	
9															
110															
1															
2															
3															
4															
5		114.3-114.7m, quartz vein								114.00	115.00	1.00	743433	<0.005	
6		116.6-116.8m, quartz vein													
7		116.8-119m, breccia phase								116.00	117.00	1.00	743434	<0.005	
8										117.00	118.00	1.00	743435	<0.005	
9															
120															

Depth metres scale	Graph	Lithological Description	Alteration: quartz veins %	Alteration: hardness 0-10	Alteration: sericite 0-3	Alteration: CO3 0-3	Mineralization: py %	Mineralization: po %	Mineralization: cpy %	Sampling: From m	Sampling: To m	Sampling: Width metres	Sampling: Sample #	Assay 1 Au g/t	Assay 2 Au g/t
121		**120.4-121.6m, Felsic Metavolcanic**	**0**	**4**	**1**	**1**	**0**	**0**							
2		Same as at 76m.													
3		**121.6m End of Hole**													
4															
5															
6															
7															
8															
9															
130															
		N.B. The felsic metavolcanics at 76m and again at 120.4m have an inconclusive appearance. Dry the unit is a relatively uniform off-white and relatively soft which may indicate that the fine grains are not tightly bound as may be the case with a siltstone. The unit has a blotchy off white to buff colour and is somewhat translucent like an aphanitic felsic rock and is cut by a stockwork of irregular hairline fractures.												
		Within the massive sulphide unit at 79m there is a barren section of mafic metavolcanics which was not sampled.													

Project McVicar Lake **Hole** MV97-7

Technical Log

Core Recovery Log

From	To	Width (metres)	Length of Core	% Core Recovery
2.7	5.8	3.10	2.70	87
5.8	8.8	3.00	3.05	102
8.8	11.9	3.10	2.98	96
11.9	14.9	3.00	3.09	103
14.9	18.0	3.10	3.01	97
18.0	21.0	3.00	3.09	103
21.0	24.1	3.10	3.05	98
24.1	27.1	3.00	2.97	99
27.1	30.2	3.10	3.00	97
30.2	32.3	2.10	1.85	88
32.3	33.2	0.90	1.02	113
33.2	36.3	3.10	3.02	97
36.3	39.3	3.00	3.02	101
39.3	42.2	2.90	3.03	104
42.2	45.4	3.20	3.03	95
45.4	48.5	3.10	2.98	96
48.5	51.5	3.00	2.99	100
51.5	54.6	3.10	3.07	99
54.6	57.6	3.00	3.06	102
57.6	60.7	3.10	3.00	97
60.7	63.7	3.00	3.04	101
63.7	66.8	3.10	3.02	97
66.8	69.8	3.00	3.04	101
69.8	72.8	3.00	2.96	99
72.8	75.9	3.10	3.07	99
75.9	78.9	3.00	3.04	101
78.9	82.0	3.10	3.03	98
82.0	85.0	3.00	3.07	102
85.0	88.1	3.10	3.03	98
88.1	91.1	3.00	2.95	98
91.1	94.2	3.10	2.94	95

RQD Log

From	To	Width (metres)	Total Core >13cm for BD	RQD
2.7	5.8	3.10	1.29	0.42
5.8	8.8	3.00	2.22	0.74
8.8	11.9	3.10	2.05	0.66
11.9	14.9	3.00	2.73	0.91
14.9	18.0	3.10	1.83	0.59
18.0	21.0	3.00	2.22	0.74
21.0	24.1	3.10	2.57	0.83
24.1	27.1	3.00	1.67	0.56
27.1	30.2	3.10	1.61	0.52
30.2	32.3	2.10	0.66	0.31
32.3	33.2	0.90	0.85	0.94
33.2	36.3	3.10	2.18	0.70
36.3	39.3	3.00	1.87	0.62
39.3	42.2	2.90	2.42	0.83
42.2	45.4	3.20	2.28	0.71
45.4	48.5	3.10	1.86	0.60
48.5	51.5	3.00	1.73	0.58
51.5	54.6	3.10	2.48	0.80
54.6	57.6	3.00	1.66	0.55
57.6	60.7	3.10	2.25	0.73
60.7	63.7	3.00	2.56	0.85
63.7	66.8	3.10	2.47	0.80
66.8	69.8	3.00	2.70	0.90
69.8	72.8	3.00	1.98	0.66
72.8	75.9	3.10	1.55	0.50
75.9	78.9	3.00	2.25	0.75
78.9	82.0	3.10	2.16	0.70
82.0	85.0	3.00	2.85	0.95
85.0	88.1	3.10	2.55	0.82
88.1	91.1	3.00	2.48	0.83
91.1	94.2	3.10	2.50	0.81

Project McVicar Lake Hole MV97-7

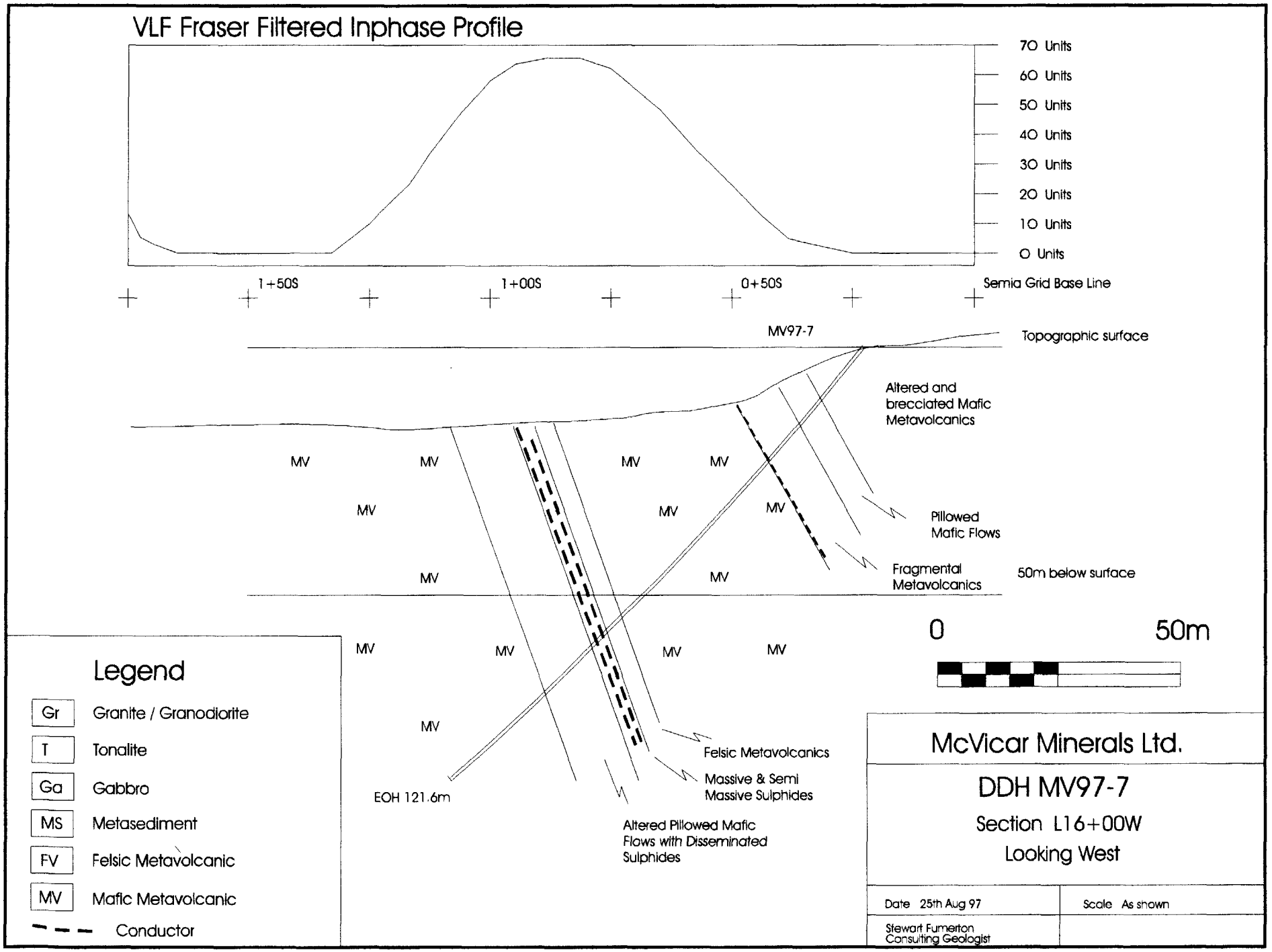
Technical Log

Core Recovery Log

From	To	Width (metres)	Length of Core	% Core Recovery
94.2	97.2	3.00	3.06	102
97.2	100.3	3.10	3.07	99
100.3	103.3	3.00	3.01	100
103.3	106.4	3.10	3.05	98
106.4	109.4	3.00	3.04	101
109.4	112.5	3.10	3.01	97
112.5	115.5	3.00	3.04	101
115.5	118.6	3.10	3.08	99
118.6	121.6	3.00	2.96	99
			Total	99

RQD Log

From	To	Width (metres)	Total Core >13cm for BD	RQD
94.2	97.2	3.00	2.53	0.84
97.2	100.3	3.10	2.45	0.79
100.3	103.3	3.00	2.08	0.69
103.3	106.4	3.10	1.48	0.48
106.4	109.4	3.00	2.80	0.93
109.4	112.5	3.10	2.59	0.84
112.5	115.5	3.00	2.49	0.83
115.5	118.6	3.10	2.43	0.78
118.6	121.6	3.00	2.55	0.85


VLF Fraser Filtered Inphase Profile
70 Units
60 Units
50 Units
40 Units
30 Units
20 Units
10 Units
0 Units
1+50S
1+00S
0+50S
Semia Grid Base Line
MV97-7
Topographic surface
Altered and brecciated Mafic Metavolcanics
MV
Pillowed Mafic Flows
Fragmental Metavolcanics
50m below surface
0
50m
Felsic Metavolcanics
Massive & Semi Massive Sulphides
EOH 121.6m
Altered Pillowed Mafic Flows with Disseminated Sulphides
Legend
Gr Granite / Granodiorite
T Tonalite
Ga Gabbro
MS Metasediment
FV Felsic Metavolcanic
MV Mafic Metavolcanic
Conductor
McVicar Minerals Ltd.
DDH MV97-7
Section L16+00W
Looking West
Date 25th Aug 97
Scale As shown
Stewart Fumerton
Consulting Geologist

McVicar Minerals

Diamond Drill Log

Project	McVicar Lake
Area	McVicar Lake
Hole	MV97-8
Core Size	BDBDGM
Date started	24th August 97
Date finished	26th August 97
Geologist	Stew Fumerton
Drill Company	W.G. Langley

Collar Co-ordinates

	Grid	UTM
Grid	McVicar Lake	
Easting	L19+24W	
Northing	0+14S	
Elevation		
Depth	91.1 m	
Overburden	1m	
Units	Metres	

Survey

	Direction	Inclination
Surface	Grid S	50
91		49

Instrument

Acid Uncorrected 57 deg

Casing 2' of BW casing was inserted at the start of the hole and recovered at the end of the hole.

JKS300 drill rig used.

Reason drilled To test a short EM conductor thought to be associated with banded iron formations.

Results The hole intersected a highly variable and locally altered mafic metavolcanics. Within this sequence there are three zones of semi massive sulphides in the matrix of volcanic breccias. These sulphide zones can explain the EM geophysical anomalies and are prospective for base metals even though no significant gold values were returned.

Skeleton Log

From m	To m	Lithology
0.00	1.00	Overburden
1.00	37.85	Mixed Mafic Metavolcanics
37.85	40.20	Siliceous Breccia
40.20	42.10	Semi Massive Sulphides in Volcanic Breccia
42.10	46.80	Mafic Metavolcanic Breccia
46.80	48.60	Semi Massive Sulphides in Volcanic Breccia
48.60	84.90	Mixed Mafic Metavolcanics
84.90	91.10	Siliceous Unit

Significant Assays

From m	To m	Value g/t Au
		None

McVicar Minerals **Project** **McVicar Lake** **Page** **2** **of** **5**

Diamond Drill Log **Hole** **MV97-8**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	serl-cite 0-3	CO3 0-3	Mineralization py %	po %	cpy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
1		**0-1m, Overburden.**													
2		**1-37.85m, Mixed Mafic Metavolcanics**	**0.5**	**5**	**0**	**1**	**Tr**	**Tr**	**0**						
3		Dark green, fine grained, mostly massive.													
4		*Pillowed flows are locally recognizable &*													
5		there Po with lesser Py occurs along the													
6		pillow margins and in nearby suassuritized													
7		joints. F.G. Ilmenite occurs in the matrix													
8															
9															
10															
1		10-12.5m, Altered and coarser grained	**0**	**4**	**0**	**1**	**0.1**	**0**	**0**						
2		phase, paler green with 20% carbonate/													
3		quartz veins <5cm, biotite grains form													
4		small aggregates. Some felsic dykes &	**2**	**5**	**0**	**0**	**Tr**	**Tr**	**0**						
5		Py sparsely disseminated in matrix													
6															
7															
8															
9		18-20m, Altered & coarser as at 10m	**0**	**4**	**0**	**0**	**0**	**0**	**0**						
20		possible pyroxene occurs.													
1		20-23m, brecciated phase with carbonate	**0.2**	**5**	**0**	**0**	**Tr**	**0**	**0**						
2		in matrix cement, with some remnant.													
3		hyaloclastite & vesicular pillows..													
4		23-27m, common <20cm CG, white felsic	**0.2**	**5**	**0**	**0**	**Tr**	**Tr**	**0**						
5		dykes form 30% of interval.													
6															
7															
8		27-28.9m, Qz/Calcite veins <2cm thick.	**3**	**5**	**0**	**1**	**Tr**	**0**	**0**						
9															
30		28.9-32.8m Altered brecciated phase	**2**	**4**	**0**	**2**	**0.1**	**0**	**0**						

McVicar Minerals **Project** **McVicar Lake** **Page** **3** **of** **5**

Diamond Drill Log **Hole** **MV97-8**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	seri-cite 0-3	CO3 0-3	Mineralization py %	po %	cpy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
31		The breccia has whispy lamellae and foln	2	4	0	2	0.1	0	0						
2	70	at 70 deg to core. Also crenulation													
3		cleavage. FG Pt sparsely disseminated in													
4		original clasts & breccia matrix.	0.2	5	0	0	0	0	0						
5		32.8-37.85m, felsic dykes <40cm form													
6		stockwork & 30% of interval													
7															
8		**37.85-40.2m, Siliceous Breccia**	0	6	0	0	Tr	0	0						
9		Foliated, whispy chloritic lamellae, zoned													
40		mafic volc fragments + Feld porphyry								39.00	40.20	1.20	743436	<0.005	
1		Sharp contacts with Py along foliation.	1	4	0	1	2	10	0	40.20	41.00	0.80	743437	<0.005	
2		**40.2-42.1m Sulphides in Volcanic Breccia**								41.00	42.10	1.10	743438	<0.005	
3		Sulphides in breccia matrix surrounding	0.5	4	0	2	0	0.1	0	42.10	43.00	0.90	743439	<0.005	
4		off-white volcanic fragments.													
5	75	**42.1-46.8m, Mafic Volcanic Breccia**													
6		Similar to 28.9m													
7		44.7-45.2m, siliceous unit													
8		**46.8-48.6m Sulphides in Volcanic Breccia**	0	6	0	0	2	15	0	46.80	47.80	1.00	743440	<0.005	
9		Similar to 40.2m								47.80	48.60	0.80	743441	<0.005	
50		**48.6-84.9m, Mixed Mafic Metavolcanics**	5	4	0	2	Tr	Tr	0						
1		Variable unit with shorts sections of FG													
2		flows cut by Calcite/Quartz veins,													
3	73	brecciated sections as 28.9m, zones with								52.00	53.00	1.00	743442	<0.005	
4		<20cm felsic dykes and sections with	3	5	0	2	0.1	0.1	0						
5		siliceous laminated material.													
6		53.4 & 57.3m, 10cm quartz vein								55.15	55.60	0.45	743443	<0.005	
7		55.15-55.6m, laminated siliceous unit with													
8		sulphides													
9															
60		59.4-61.8m light grey siliceous band	0	5	0	0	Tr	Tr	0						

McVicar Minerals **Project** **McVicar Lake** **Page** **4** **of** **5**

Diamond Drill Log **Hole** **MV97-8**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	seri-cite 0-3	CO3 0-3	Mineralization py %	po %	cpy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
61		**Mixed Mafic Metavolcanic Cont:**	**0**	**5**	**0**	**0**	**Tr**	**Tr**	**0**						
2	50														
3		63-63.7m number of 10cm quartz veins.	**5**	**5**	**0**	**1**	**0**	**0**	**0**						
4										63.00	63.70	0.70	743444	<0.005	
5		63.8-64.2m Siliceous zone													
6		65.2-66.05m, Siliceous zone													
7			**50**	**5**	**0**	**0**	**0**	**0**	**0**	66.05	67.00	0.95	743445	<0.005	
8										67.00	68.00	1.00	743446	<0.005	
9			**0.2**	**5**	**0**	**1**	**Tr**	**0**	**0**						
70		70.5m, amygdules in mafic volcanics													
1															
2	65	71.9-74m, foliated - laminated siliceous													
3		band with alternating FG and CG horizons	**1**	**4**	**1**	**1**	**Tr**	**0**	**0**						
4		Possible arenite mixed in with a tuff.								73.00	74.00	1.00	743447	<0.005	
5			**1**	**5**	**0**	**2**	**0.1**	**Tr**	**0**						
6															
7		76.5-77.7m, laminated siliceous band	**0.5**	**4**	**1**	**1**	**1**	**10**	**0**	76.50	77.70	1.20	743448	<0.005	
8		77.7-78m, Mafic volcanic breccia													
9		78-80.7m siliceous unit	**0.3**	**5**	**0**	**2**	**Tr**	**0.5**	**0**	78.00	79.00	1.00	743449	<0.005	
80										79.00	80.00	1.00	743450	<0.005	
1			**0**	**5**	**0**	**0**	**0**	**0**	**0**						
2		81.2-81.8m, laminated mafic volcanics	**0**	**4**	**0**	**2**	**1**	**6**	**0**	81.20	81.80	0.60	743451	<0.005	
3		with carbonate and biotite alteration with	**0.1**	**5**	**0**	**0**	**0**	**0**	**0**						
4		sulphide trails													
5		**84.9-91.1m, Siliceous Unit**													
6		FG, off-white unit that has a buff and	**1**	**5**	**0**	**1**	**Tr**	**0**	**0**						
7		translucent tint when wet.. Contacts are													
8		very sharp with an intrusive discordant													
9		style. The origin of the unit is not													
90		definite but probably a modified primary													

Project McVicar Lake Hole MV97-8

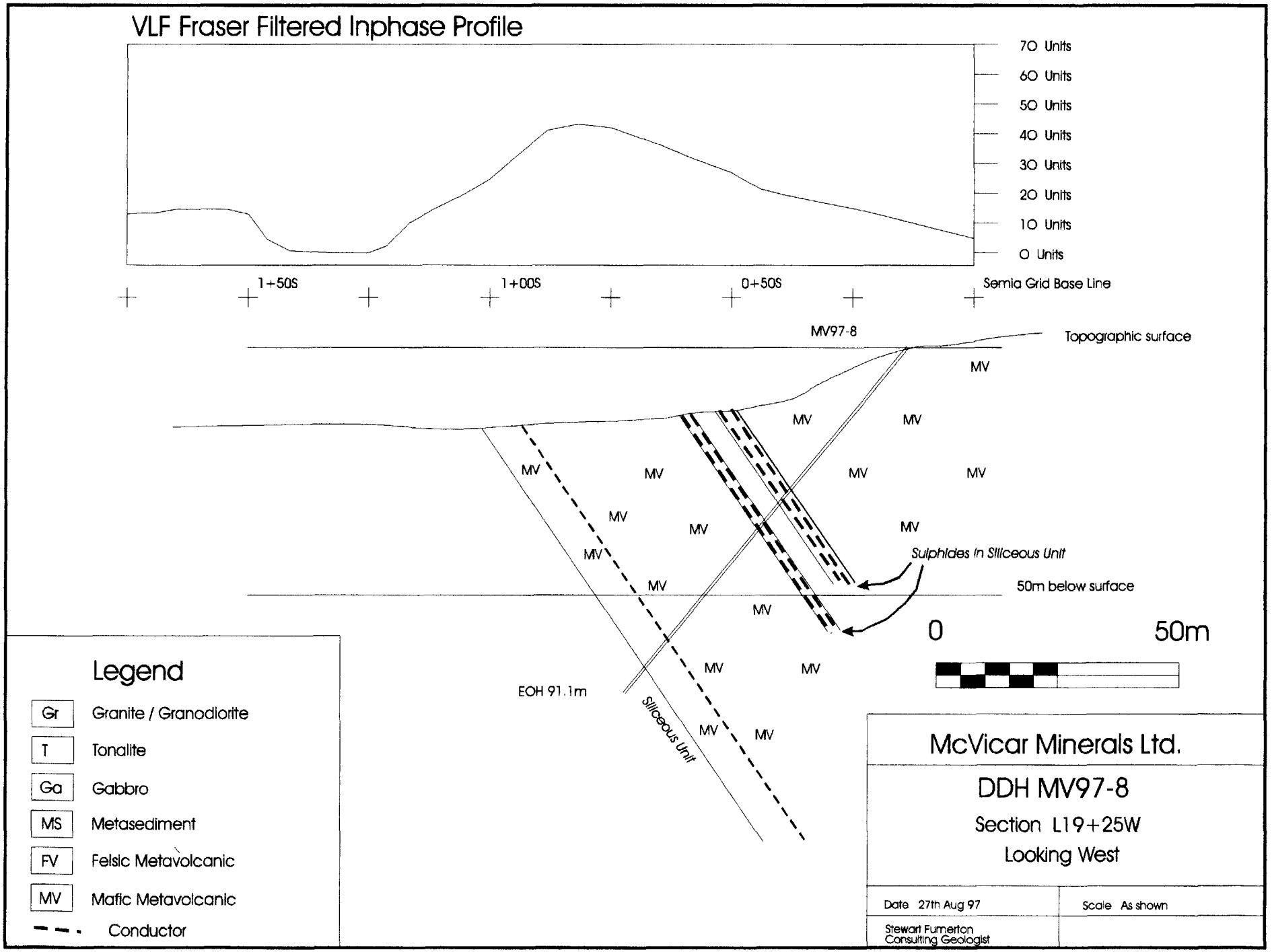
Technical Log

Core Recovery Log

From	To	Width (metres)	Length of Core	% Core Recovery
2.7	5.8	3.1	2.94	95
5.8	8.8	3.0	3.05	102
8.8	9.8	1.0	0.77	77
9.8	11.9	2.1	2.22	106
11.9	14.9	3.0	3.00	100
14.9	18.0	3.1	3.01	97
18.0	21.0	3.0	3.11	104
21.0	24.1	3.1	3.01	97
24.1	27.1	3.0	3.02	101
27.1	30.2	3.1	3.05	98
30.2	33.2	3.0	3.04	101
33.2	36.3	3.1	3.03	98
36.3	39.3	3.0	3.07	102
39.3	42.4	3.1	3.04	98
42.4	45.4	3.0	3.04	101
45.4	48.4	3.0	3.04	101
48.4	51.5	3.1	2.96	95
51.5	54.6	3.1	3.05	98
54.6	57.6	3.0	3.02	101
57.6	60.7	3.1	3.01	97
60.7	63.7	3.0	2.98	99
63.7	66.8	3.1	3.02	97
66.8	69.8	3.0	3.00	100
69.8	72.8	3.0	3.05	102
72.8	75.9	3.1	3.02	97
75.9	78.9	3.0	2.97	99
78.9	82.0	3.1	3.07	99
82.0	85.0	3.0	3.00	100
85.0	88.1	3.1	3.07	99
88.1	91.1	3.0	2.99	100
			Total	99

RQD Log

From	To	Width (metres)	Total Core >13cm for BD	RQD
2.7	5.8	3.1	1.30	0.42
5.8	8.8	3.0	1.73	0.58
8.8	9.8	1.0	0.32	0.32
9.8	11.9	2.1	1.88	0.90
11.9	14.9	3.0	2.17	0.72
14.9	18.0	3.1	2.27	0.73
18.0	21.0	3.0	2.20	0.73
21.0	24.1	3.1	2.39	0.77
24.1	27.1	3.0	2.31	0.77
27.1	30.2	3.1	2.71	0.87
30.2	33.2	3.0	2.71	0.90
33.2	36.3	3.1	2.20	0.71
36.3	39.3	3.0	2.64	0.88
39.3	42.4	3.1	2.55	0.82
42.4	45.4	3.0	2.19	0.73
45.4	48.4	3.0	2.45	0.82
48.4	51.5	3.1	2.50	0.81
51.5	54.6	3.1	1.90	0.61
54.6	57.6	3.0	2.63	0.88
57.6	60.7	3.1	1.94	0.63
60.7	63.7	3.0	2.49	0.83
63.7	66.8	3.1	2.59	0.84
66.8	69.8	3.0	1.58	0.53
69.8	72.8	3.0	2.56	0.85
72.8	75.9	3.1	2.09	0.67
75.9	78.9	3.0	2.17	0.72
78.9	82.0	3.1	1.98	0.64
82.0	85.0	3.0	2.05	0.68
85.0	88.1	3.1	1.97	0.64
88.1	91.1	3.0	2.02	0.67


VLF Fraser Filtered Inphase Profile
70 Units
60 Units
50 Units
40 Units
30 Units
20 Units
10 Units
0 Units
1+50S
1+00S
0+50S
Semia Grid Base Line
MV97-8
Topographic surface
MV
Sulphides in Siliceous Unit
50m below surface
0
50m
EOH 91.1m
Siliceous Unit
Legend
Gr Granite / Granodiorite
T Tonalite
Ga Gabbro
MS Metasediment
FV Felsic Metavolcanic
MV Mafic Metavolcanic
Conductor
McVicar Minerals Ltd.
DDH MV97-8
Section L19+25W
Looking West
Date 27th Aug 97
Scale As shown
Stewart Fumerton
Consulting Geologist

Project	McVicar Lake
Area	McVicar Lake
Hole	MV97-9
Core Size	BDBDGM
Date started	27th August 97
Date finished	29th August 97
Geologist	Stew Fumerton
Drill Company	W.G. Langley

Collar Co-ordinates

	Grid	UTM
Grid	Semia Lake	
Easting	L24+98W	
Northing	1+32N	
Elevation		
Depth	88.1 m	
Overburden	2.7 m	
Units	Metres	

Survey

	Direction	Inclination
Surface	Grid S	50
88m		50

Instrument

Acid Uncorrected 58 deg

Casing 7' of BW casing was inserted to start the hole and retrieved upon completion.

JKS300 drill rig used.

Reason drilled To test a strong EM anomaly that was interpreted to be sulphide facies iron formation.

Results Two massive and semi massive sulphide horizons were intersected in the hole in a sequence of mafic metavolcanics and dirty arenaceous sandstone. The environment could be favourable for base metal mineralization. Gold assays returned from the hole are uniformly below deteectection levels.

Skeleton Log

From m	To m	Lithology
0.00	2.70	Overburden
2.70	31.20	Mafic Metavolcanics
31.20	37.50	Siliceous Unit, Possible tectonised arenaceous sandstone
37.50	51.10	Mafic Metavolcanics
51.10	52.10	Semi Massive Sulphides in Breccia Matrix
52.10	61.50	Siliceous unit
61.50	63.50	Semi Massive Sulphides in Breccia + Massive Sulphides
63.50	67.50	Mafic Metavolcanic Flow
67.50	83.00	Siliceous unit
83.00	87.20	Mafic Metavolcanic Flow
87.20	88.10	Siliceous unit

Significant Assays

From m	To m	Value g/t Au
		None

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	sei-cite 0-3	CO3 0-3	Mineralization py %	po %	cpy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
1		**0-2.7m, Overburden**													
2															
3		**2.7-31.2m, Mafic Metavolcanics**	**0.3**	**5**	**0**	**2**	**Tr**	**0**	**0**						
4		Dark green, fine grained with open stock-													
5		work of carbonate / quartz veins <1.5cm.													
6		Rock is mainly massive and probably a													
7		flow but locally sections are brecciated													
8		with carbonate rich matrix that may be								7.00	8.00	1.00	743452	<0.005	
9		derived from hyaloclastites or flow top													
10		breccias. Sulphides occur in uncommon													
1		trails <2mm thick								10.00	11.00	1.00	743453	<0.005	
2	65	12-13m, foliated breccia at 65 deg to													
3		core													
4										13.00	14.30	1.30	743454	<0.005	
5		14.3-14.8m, biotite alteration of mafic	**2**	**4**	**0**	**0**	**1**	**0**	**0**	14.30	14.80	0.50	743455	<0.005	
6		volcanics. <1mm grain pyrite disseminated	**1**	**5**	**0**	**2**	**0.5**	**0**	**0**	14.80	16.00	1.20	743456	<0.005	
7		14.8-19.3m, breccia phase. Pyrite in trails													
8		parallel to foliation. 18.5m 10cm quartz													
9		vein								18.00	19.00	1.00	743357	<0.005	
20		19.3-28.5m, Saussuritized M.G. felsic	**0.2**	**5**	**0**	**2**	**Tr**	**0**	**0**						
1		dykes form a stockwork in mafic													
2		volcanics. Variable carbonate alteration.													
3		Pyrite disseminated in both felsic dykes													
4		and mafic volcanics.													
5															
6										25.00	26.00	1.00	743458	<0.005	
7															
8															
9	50	28.5-31.2m, breccia phase													
30			**0**	**5**	**0**	**1**	**0**	**0**	**0**						

McVicar Minerals **Project** **McVicar Lake** **Page** **3** **of** **5**

Diamond Drill Log **Hole** **MV97-9**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	seri-cite 0-3	CO3 0-3	Mineralization py %	po %	cpy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
31			**0**	**5**	**0**	**1**	**0**	**0**	**0**						
2		**31.2-37.5m, "Arenite"**	**0.5**	**5**	**1**	**1**	**0.1**	**0**	**0**						
3		Fine grain, Light grey, to buff, the latter													
4		due to alteration. Common 2-3cm whispy													
5		bands of mafics. and crack & seal fractures.								34.00	35.00	1.00	743459	<0.005	
6		Pyrite in wafers along joints.													
7	65	35.6-36.5m breccia MV & sediment bed	**1**	**4**	**0**	**2**	**0**	**Tr**	**0**						
8		**37.5-51.1m, Mafic Metavolcanics**	**0.2**	**5**	**0**	**2**	**0**	**0**	**0**						
9		Tabular though angular mafic volcanic													
40		fragments aligned parallel to foliation set													
1		in carbonate rich matrix. Locally diffuse								40.00	41.00	1.00	743460	<0.005	
2		pyrrhotite trails up to 4mm thick occur.													
3		at 65 deg to core													
4	65														
5										44.00	45.00	1.00	743461	<0.005	
6															
7		47.5m, 6cm quartz vein													
8		48-50m, weaker foliation													
9															
50			**0**	**4**	**0**	**2**	**5**	**0**	**0**	50.00	51.10	1.10	743462	<0.005	
1		**51.1-52.1m, Semi Massive Sulphide**	**1**	**6**	**0**	**1**	**1**	**25**	**0**	51.10	52.10	1.00	743463	<0.005	
2		Po forms matrix net with felsic clasts	**0.5**	**5**	**1**	**1**	**3**	**Tr**	**0**	52.10	53.00	0.90	743464	<0.005	
3		**52.1-61.5m, Siliceous Unit**								53.00	54.00	1.00	743465	<0.005	
4		Light buff, very fine grained, locally	**0.1**	**6**	**1**	**1**	**Tr**	**Tr**	**0**						
5	60	foliated but mostly "massive" with some													
6		fractures filled with pyrrhotite and pyrite.								55.00	56.00	1.00	743466	<0.005	
7		65m, foliation60 deg to core axis													
8															
9															
60										59.00	60.00	1.00	743467	<0.005	

McVicar Minerals **Project** **McVicar Lake** **Page** **4** **of** **5**

Diamond Drill Log **Hole** **MV97-9**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	seri-cite 0-3	CO3 0-3	Mineralization py %	po %	cpy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
61		**61.4-63.5m, Sulphide Breccia**	**0.1**	**6**	**1**	**1**	**Tr**	**Tr**	**0**						
2		Altered mafic volcanic clasts in Po + C.G.	**5**	**4**	**0**	**1**	**4**	**20**	**0**	61.40	62.00	0.60	743468	<0.005	
3		secondary Py matrix. Local solid sulphide								62.00	62.80	0.80	743469	<0.005	
4		bands from 62.5-62.8m	**2**	**5**	**0**	**0**	**Tr**	**0**	**0**	62.80	63.50	0.70	743470	<0.005	
5		**63.5-67.5m, Mafic Flow**													
6		Medium grain, massive, dark green. Last													
7		half metre brecciated with carbonate rich													
8		matrix with rare specks of pyrite.	**0.2**	**6**	**1**	**0**	**0.1**	**0**	**0**						
9		**67.5-83m, Siliceous Unit.**													
70		Fine grain, gritty, off-white to buff unit.													
1		This may be a recrystalized, tectonized								70.00	71.00	1.00	743471	<0.005	
2		fine sandstone. No recognizable beds													
3		but may be imbricated by small scale													
4		faulting. Whispy mafic bands <3cm thick													
5		could be mafic tuffs or wackes.													
6										75.00	76.00	1.00	743472	<0.005	
7															
8															
9		78.6-80.2m, mafic volcanic breccia	**3**	**5**	**0**	**1**	**1**	**0**	**0**	78.60	79.20	0.60	743473	0.030	
80										79.20	80.20	1.00	743474	<0.005	
1	75	81m, foliation at 75 deg to core axis	**0.2**	**6**	**1**	**0**	**0.1**	**0**	**0**						
2															
3										82.00	83.00	1.00	743475	<0.005	
4		**83-87.2m, Mafic Flow**	**1**	**4**	**0**	**0**	**0.1**	**0**	**0**						
5		Similar to unit at 63.5m. Pyrite locally													
6		disseminated about saussuritized													
7		fractures													
8		**87.2-88.1m, Siliceous Unit**	**1**	**6**	**0**	**0**	**0.1**	**0**	**0**						
9		Same as at 67.5m.													
90		**88.1m, End of Hole**													

Project McVicar Lake Hole MV97-9

Technical Log

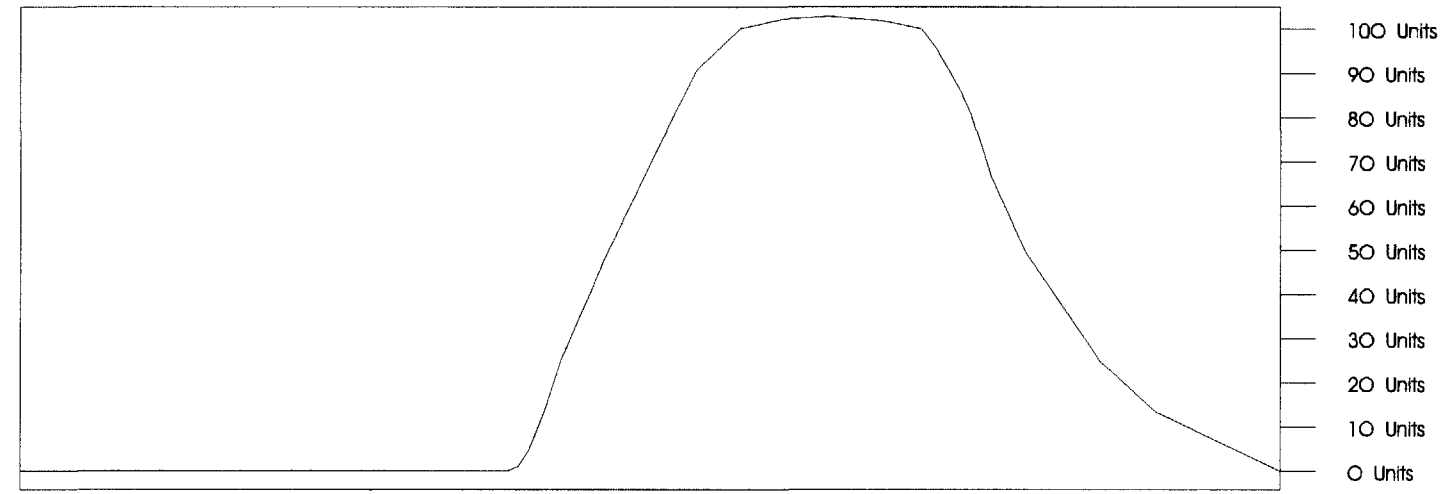
Core Recovery Log

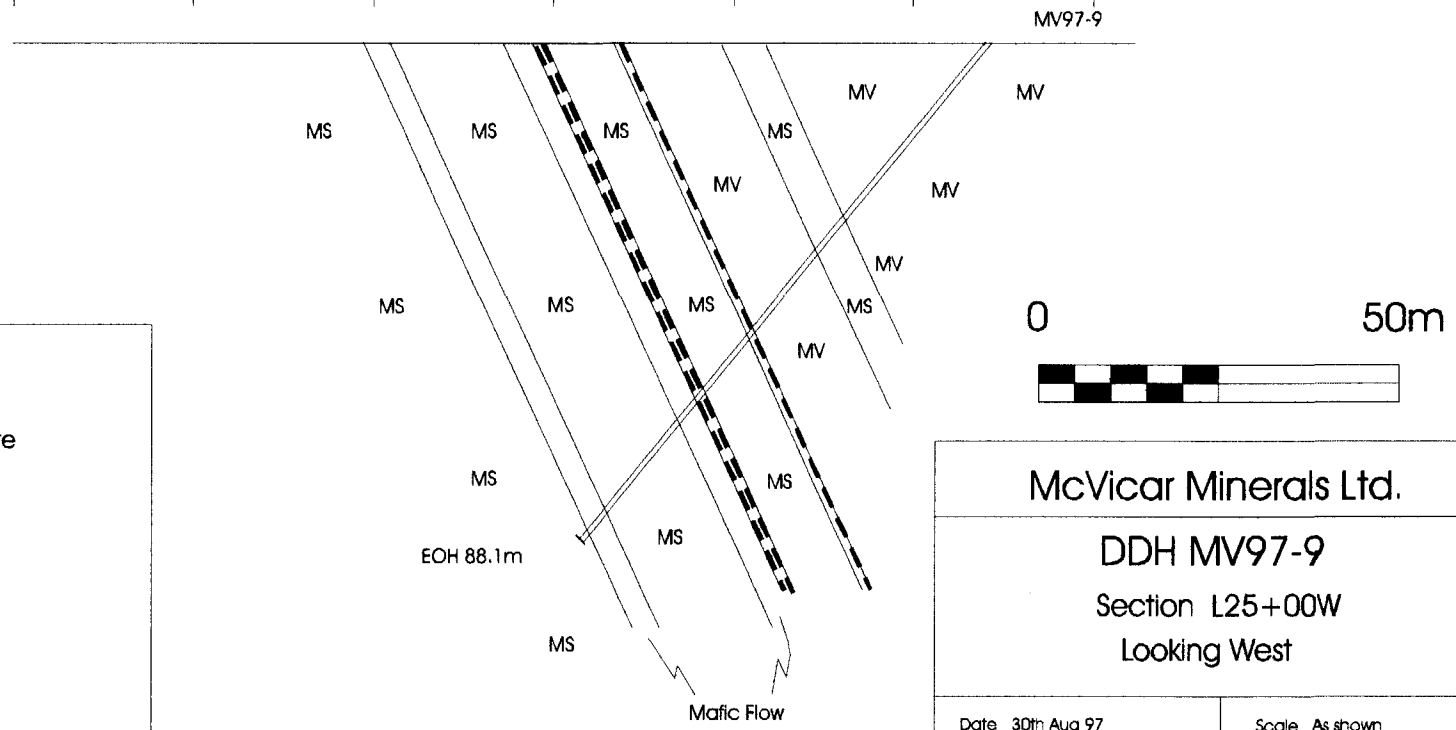
From	To	Width (metres)	Length of Core	% Core Recovery
2.7	5.8	3.10	2.84	92
5.8	8.8	3.00	3.02	101
8.8	11.9	3.10	3.06	99
11.9	14.9	3.00	2.99	100
14.9	18.0	3.10	3.04	98
18.0	21.0	3.00	2.97	99
21.0	24.1	3.10	3.06	99
24.1	27.1	3.00	3.04	101
27.1	30.2	3.10	3.04	98
30.2	33.2	3.00	3.01	100
33.2	36.3	3.10	3.06	99
36.3	39.3	3.00	3.04	101
39.3	42.4	3.10	3.01	97
42.4	45.4	3.00	3.05	102
45.4	48.5	3.10	2.94	95
48.5	51.5	3.00	3.03	101
51.5	54.6	3.10	3.07	99
54.6	57.6	3.00	3.05	102
57.6	60.7	3.10	3.06	99
60.7	63.7	3.00	3.06	102
63.7	66.8	3.10	2.99	96
66.8	69.8	3.00	3.04	101
69.8	72.8	3.00	3.03	101
72.8	75.9	3.10	3.03	98
75.9	78.9	3.00	3.06	102
78.9	82.0	3.10	3.00	97
82.0	85.0	3.00	3.01	100
85.0	88.1	3.10	2.99	96
			Total	99

RQD Log

From	To	Width (metres)	Total Core >13cm for BD	RQD
2.7	5.8	3.10	1.70	0.55
5.8	8.8	3.00	2.54	0.85
8.8	11.9	3.10	2.13	0.69
11.9	14.9	3.00	1.67	0.56
14.9	18.0	3.10	2.27	0.73
18.0	21.0	3.00	2.53	0.84
21.0	24.1	3.10	2.09	0.67
24.1	27.1	3.00	2.54	0.85
27.1	30.2	3.10	2.70	0.87
30.2	33.2	3.00	1.19	0.40
33.2	36.3	3.10	1.96	0.63
36.3	39.3	3.00	2.42	0.81
39.3	42.4	3.10	2.99	0.96
42.4	45.4	3.00	2.62	0.87
45.4	48.5	3.10	2.27	0.73
48.5	51.5	3.00	1.84	0.61
51.5	54.6	3.10	2.18	0.70
54.6	57.6	3.00	2.57	0.86
57.6	60.7	3.10	1.80	0.58
60.7	63.7	3.00	2.20	0.73
63.7	66.8	3.10	1.88	0.61
66.8	69.8	3.00	2.08	0.69
69.8	72.8	3.00	2.22	0.74
72.8	75.9	3.10	1.75	0.56
75.9	78.9	3.00	1.84	0.61
78.9	82.0	3.10	2.39	0.77
82.0	85.0	3.00	2.31	0.77
85.0	88.1	3.10	2.45	0.79

VLF Fraser Filtered Inphase Profile





Legend

Gr	Granite / Granodiorite
T	Tonalite
Ga	Gabbro
MS	Metasediment
FV	Felsic Metavolcanic
MV	Mafic Metavolcanic
- - -	Conductor

McVicar Minerals Ltd.

DDH MV97-9

Section L25+00W

Looking West

Date 30th Aug 97	Scale As shown
Stewart Fumerton Consulting Geologist	

McVicar Minerals

Diamond Drill Log

Project	McVicar Lake
Area	McVicar Lake
Hole	MV97-10
Core Size	BDBDGM
Date started	29th August 97
Date finished	31st August 97
Geologist	Stew Fumerton
Drill Company	W.G. Langley

Collar Co-ordinates

	Grid	UTM
Grid	Semla Lake	
Easting	L27+98W	
Northing	2+02N	
Elevation		
Depth	91.1 m	
Overburden	3.7 m	
Units	Metres	

Survey

	Direction	Inclination
Surface	Grid S	50
88		49

Instrument

Acid Uncorrected 57 deg

Casing 12' of BW casing inserted at the start of the hole.

JKS300 drill rig used.

Reason drilled To test a strong EM anomaly that was interpreted to be sulphide facies iron formation.

Results Two massive and semi massive sulphide horizons were intersected in the hole in a sequence of mafic metavolcanics and dirty arenaceous sandstone. Pyrite is a secondary mineral growing in open cavities and the environment could be favourable for base metal mineralization. Gold assays returned from the hole are uniformly below detection levels.

Skeleton Log

From m	To m	Lithology
0.00	3.70	Overburden
3.70	18.00	Mafic Metavolcanics
18.00	39.40	Variolitic Mafic Metavolcanics
39.40	42.60	Siltstone
42.60	59.00	Mafic Metavolcanic Pillows
59.00	59.80	Siltstone - Graphitic Shale
59.80	62.80	Mafic Metavolcanic Breccia
62.80	65.70	Net Sulphides in Breccia
65.70	72.30	Siliceous Unit
72.30	75.90	Mafic Variolitic Pillows
75.90	77.00	Bedded Siltstone - Sandstone
77.00	77.30	Massive Pyrrhotite and Pyrite
77.30	86.00	Bedded Siltstone - Sandstone
86.00	91.10	Mafic Pillowed Flow

Significant Assays

From m	To m	Value g/t Au
		None

McVicar Minerals **Project** **McVicar Lake** **Page** **2** **of** **5**

Diamond Drill Log **Hole** **MV97-10**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	sei-cite 0-3	CO3 0-3	Mineralization py %	po %	cpy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
1		**0-3.7m, Overburden**													
2															
3															
4		**3.7-18m, Mafic Metavolcanics**	**10**	**4**	**0**	**2**	**0**	**0**	**0**	5.00	6.00	1.00	743476	0.020	
5		Dark green fine grain massive unit.								6.00	7.00	1.00	743437	<0.005	
6		3.7-7m, strong carbonate alteration and													
7		brecciation of the metavolcanics													
8		6-6.5m, stockwork of quartz veins.	**0**	**5**	**0**	**1**	**Tr**	**0**	**0**						
9		9-19m, open stockwork of small white													
10		(<10cm), feldspar porphyritic dykelets													
1		that are saussurtized and form 1% of the								10.00	11.00	1.00	743478	<0.005	
2		interval.													
3															
4															
5		14-16m, volcanic breccia with carbonate	**2**	**4**	**0**	**2**	**0.1**	**0**	**0**	14.00	15.00	1.00	743479	<0.005	
6		rich matrix, probably altered hyaloclastite								15.00	16.00	1.00	743480	0.030	
7			**0**	**5**	**0**	**1**	**Tr**	**0**	**0**						
8		**18-39.4m, Variolitic Mafic Metavolcanic**													
9		Less 5mm light green varioles form up to	**2**	**6**	**0**	**0**	**0**	**0**	**0**						
20		30% of the unit locally and set in dark green													
1		fine grain matrix with brown tints. Unit is								20.00	21.00	1.00	743481	<0.005	
2		brecciated locally with <2cm angular													
3		fragments set in slightly altered matrix													
4		over 10cm. This breccia unlike others													
5		intersected appears to be a flow top													
6		breccia. Elsewhere pillow selvages are													
7		recognizable													
8		24-26m, M.G., massive flow	**3**	**6**	**0**	**0**	**Tr**	**0.1**	**0**	27.00	28.00	1.00	743482	<0.005	
9		27-39.4m, pillowed flows cut by quartz													
30		veins. some white feld porph dykes are													

McVicar Minerals **Project** **McVicar Lake** **Page** **3** **of** **5**

Diamond Drill Log **Hole** **MV97-10**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	seri-cite 0-3	CO3 0-3	Mineralization py %	po %	cpy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
31		**Variolitic Mafic Metavolcanic Cont:**	**3**	**6**	**0**	**0**	**Tr**	**0.1**	**0**	30.00	31.00	1.00	743483	<0.005	
2		The sulphides typically occur between													
3		pillows as discontinuous trails.													
4										33.00	34.00	1.00	743484	<0.005	
5															
6															
7															
8										37.00	38.00	1.00	743485	<0.005	
9															
40		**39.4-42.6m, Siltstone**	**2**	**5**	**0**	**2**	**2**	**0**	**0**	39.40	40.00	0.60	743486	<0.005	
1		Light brown, fine sand, unbedded with								40.00	40.90	0.90	743487	<0.005	
2		FG disseminated pyrite.													
3		40.9-41.5m, white porphyritic granite								41.50	42.60	1.10	743488	<0.005	
4		**42.6-59m, Mafic Metavolcanic Pillows**	**1**	**5**	**0**	**0**	**0**	**Tr**	**0**						
5		Dark green pillowed metavolcanics													
6		flooded by a stockwork of white													
7		feldspar porphyritic dykes up to 30cm													
8		thick which form 30% of the interval.													
9		Pyrrhotite occurs in trails along dyke													
50		contacts in places. The unit is locally													
1		brecciated.													
2															
3															
4															
5		54-54.9m, 50cm quartz vein on contact	**70**	**6**	**0**	**0**	**0**	**0**	**0**	54.00	54.90	0.90	743489	<0.005	
6		of felsic dyke	**1**	**5**	**0**	**0**	**0**	**0.1**	**0**						
7															
8															
9															
60		**59-59.8m, Siltstone - Graphitic Shale**	**0**	**6**	**0**	**0**	**1**	**10**	**0**	59.00	59.80	0.80	743490	<0.005	

McVicar Minerals **Project** **McVicar Lake** **Page** **4** **of** **5**

Diamond Drill Log **Hole** **MV97-10**

Depth metres scale	Graph	Lithological Description	Alteration quartz veins %	hard-ness 0-10	seri-cite 0-3	CO3 0-3	Mineralization py %	po %	cpy %	Sampling From m	To m	Width metres	Sample #	Assay 1 Au g/t	Assay 2 Au g/t
61		**59.8-62.8m, Mafic Volcanic Breccia**	**5**	**4**	**0**	**2**	**0**	**1**	**0**						
2		Dark green mafic volcanic breccia clasts								61.00	62.00	1.00	743491	<0.005	
3		in carbonate rich matrix, Most Po in vein,								62.00	62.80	0.80	743492	<0.005	
4		**62.8-65.7m, Net Sulphides in Breccia**	**0**	**4**	**0**	**0**	**2**	**15**	**0**	62.80	64.00	1.20	743493	<0.005	
5		Most sulphides in matrix within 30cm of								64.00	65.00	1.00	743494	<0.005	
6		top & bottom contact. Off-white FG clasts								65.00	65.70	0.70	743495	<0.005	
7		65.7-66.7m, Mafic Metavolcanic	**1**	**4**	**1**	**0**	**0**	**0**	**0**						
8		**66.4-72.3m, Siliceous Unit**													
9		Fine grained, off-white to buff unit with													
70		some bands of mafic volcanics up to 3cm.													
1		No bedding discernible													
2															
3		**72.3-75.9m, Mafic Variolitic Pillows**	**1**	**5**	**0**	**1**	**1**	**0**	**0**						
4		Dark green, fine grained,													
5										74.00	75.00	1.00	743496	<0.005	
6															
7		**75.9-86m, Bedded Siltstone-Sandstone**	**1**	**4**	**1**	**1**	**0**	**0**	**0**	76.00	77.00	1.00	743497	<0.005	
8		Fine-medium sand with local 3mm scale	**1**	**4**	**1**	**1**	**5**	**30**	**0**	77.00	77.30	0.30	743498	<0.005	
9		bedding & <3cm mafic tuff bands.	**1**	**4**	**1**	**1**	**0**	**0**	**0**						
80		77-77.3m, Massive, MG, Po with 2nd													
1		<0.5cm crystals of Py in open vuggy band	**0**	**5**	**0**	**1**	**0**	**0**	**0**						
2		<4cm thick.	**1**	**5**	**1**	**1**	**0**	**0**	**0**						
3		79.8-81m, Mafic Metavolcanic													
4															
5										84.00	85.00	1.00	743499	<0.005	
6															
7		**86-91.1m, Mafic Pillowed Flow**	**10**	**5**	**0**	**1**	**0.5**	**0**	**0**						
8		Dark green, fine grained with very FG								87.00	88.00	1.00	743500	<0.005	
9		pyrite disseminated													
90		91-91.1m, Siliceous Unit as above													

Project McVicar Lake Hole MV97-10

Technical Log

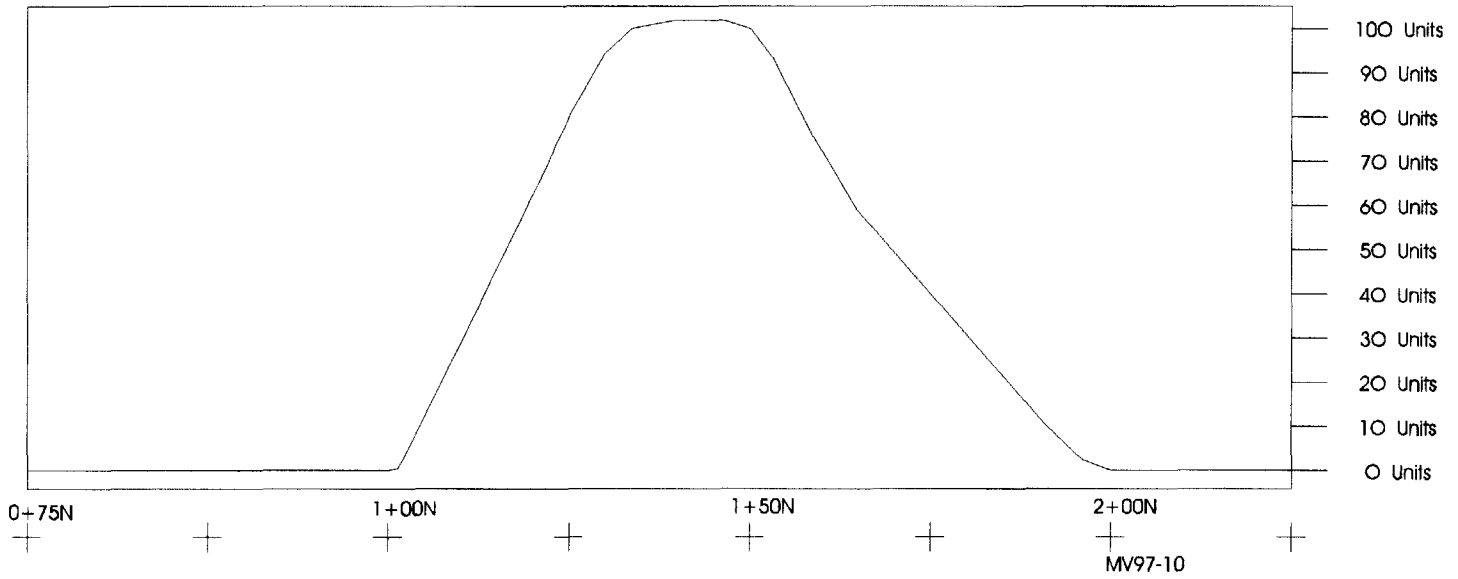
Core Recovery Log

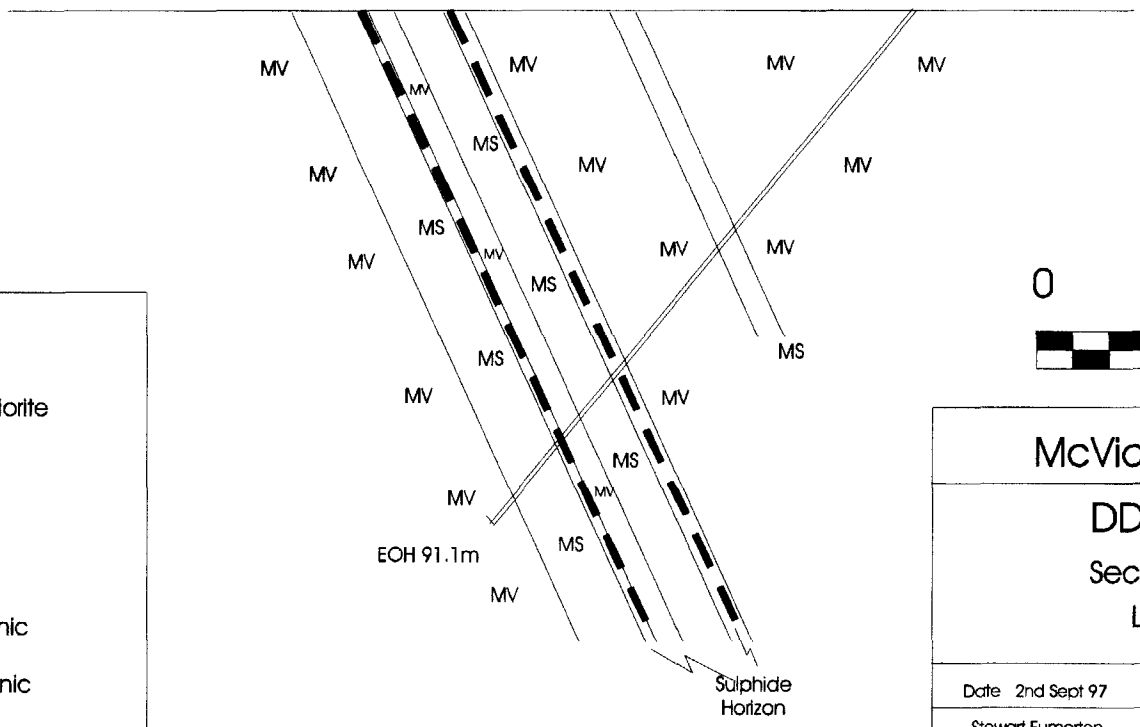
From	To	Width (metres)	Length of Core	% Core Recovery
5.8	8.8	3.00	2.95	98
8.8	11.9	3.10	3.03	98
11.9	14.9	3.00	3.05	102
14.9	18.0	3.10	2.99	96
18.0	21.0	3.00	3.06	102
21.0	24.1	3.10	3.06	99
24.1	27.1	3.00	3.02	101
27.1	30.2	3.10	3.02	97
30.2	33.2	3.00	2.99	100
33.2	36.3	3.10	3.00	97
36.3	39.3	3.00	2.93	98
39.3	42.4	3.10	3.00	97
42.4	45.4	3.00	3.01	100
45.4	48.5	3.10	3.04	98
48.5	51.5	3.00	2.98	99
51.5	54.6	3.10	3.08	99
54.6	57.6	3.00	3.08	103
57.6	60.7	3.10	3.04	98
60.7	63.7	3.00	3.03	101
63.7	66.8	3.10	3.06	99
66.8	69.8	3.00	3.02	101
69.8	72.8	3.00	3.03	101
72.8	75.9	3.10	3.02	97
75.9	78.9	3.00	3.00	100
78.9	82.0	3.10	2.98	96
82.0	85.0	3.00	3.06	102
85.0	88.1	3.10	3.05	98
88.1	91.1	3.00	3.05	102
			Total	99

RQD Log

From	To	Width (metres)	Total Core >13cm for BD	RQD
5.8	8.8	3.00	1.84	0.61
8.8	11.9	3.10	1.12	0.36
11.9	14.9	3.00	1.66	0.55
14.9	18.0	3.10	2.26	0.73
18.0	21.0	3.00	2.74	0.91
21.0	24.1	3.10	1.98	0.64
24.1	27.1	3.00	2.60	0.87
27.1	30.2	3.10	2.73	0.88
30.2	33.2	3.00	1.90	0.63
33.2	36.3	3.10	2.53	0.82
36.3	39.3	3.00	1.60	0.53
39.3	42.4	3.10	2.28	0.74
42.4	45.4	3.00	2.07	0.69
45.4	48.5	3.10	2.36	0.76
48.5	51.5	3.00	2.37	0.79
51.5	54.6	3.10	2.53	0.82
54.6	57.6	3.00	2.20	0.73
57.6	60.7	3.10	2.53	0.82
60.7	63.7	3.00	1.43	0.48
63.7	66.8	3.10	2.82	0.91
66.8	69.8	3.00	2.45	0.82
69.8	72.8	3.00	2.24	0.75
72.8	75.9	3.10	2.33	0.75
75.9	78.9	3.00	1.40	0.47
78.9	82.0	3.10	2.10	0.68
82.0	85.0	3.00	2.26	0.75
85.0	88.1	3.10	2.72	0.88
88.1	91.1	3.00	2.55	0.85

VLF Fraser Filtered Inphase Profile





Legend

Gr	Granite / Granodiorite
T	Tonalite
Ga	Gabbro
MS	Metasediment
FV	Felsic Metavolcanic
MV	Mafic Metavolcanic
▬ ▬	Conductor

0 50m

McVicar Minerals Ltd.

DDH MV97-10

Section L28+00W

Looking West

Date 2nd Sept 97	Scale As shown
Stewart Fumerton Consulting Geologist	

APPENDIX II

ASSAY CERTIFICATES

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: McVICAR MINERALS **

2402 - 1 DUNDAS ST. W.
TORONTO, ON
M5G 1Z3

Project :
Comments: ATTN: GANG CHAI CC: STEW FUMERTON

Page Number :1
Total Pages :2
Certificate Date: 25-AUG-97
Invoice No. :I9738204
P.O. Number :
Account :PGP

CERTIFICATE OF ANALYSIS A9738204

SAMPLE	PREP CODE		Au ppb FA+AA
743201	205	226	185
743202	205	226	50
743203	205	226	360
743204	205	226	< 5
743205	205	226	30
743206	205	226	25
743207	205	226	245
743208	205	226	1900
743209	205	226	1465
743210	205	226	1520
743211	205	226	110
743212	205	226	25
743213	205	226	770
743214	205	226	70
743215	205	226	380
743216	205	226	15
743217	205	226	< 5
743218	205	226	< 5
743219	205	226	< 5
743220	205	226	< 5
743221	205	226	< 5
743222	205	226	< 5
743223	205	226	60
743224	205	226	< 5
743225	205	226	15
743226	205	226	500
743227	205	226	140
743228	205	226	200
743229	205	226	35
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743231	205	226	10
743232	205	226	20
743233	205	226	40
743234	205	226	< 5
743235	205	226	< 5
743236	205	226	< 5
743237	205	226	< 5
743238	205	226	70
743239	205	226	< 5
743240	205	226	< 5

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: McVICAR MINERALS **

2402 - 1 DUNDAS ST. W.
TORONTO, ON
M5G 1Z3

Project :
Comments: ATTN: GANG CHAI CC: STEW FUMERTON

Page Number :2
Total Pages :2
Certificate Date: 25-AUG-97
Invoice No. :19738204
P.O. Number :
Account :PGP

CERTIFICATE OF ANALYSIS A9738204

SAMPLE	PREP CODE		Au ppb FA+AA									
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743244	205	226	< 5									
743245	205	226	< 5									
743246	205	226	25									
743247	205	226	105									
743248	205	226	< 5									
743249	205	226	205									
743250	205	226	5									
743251	205	226	40									
743252	205	226	< 5									
743253	205	226	< 5									
743254	205	226	< 5									
743255	205	226	< 5									
743256	205	226	30									
743257	205	226	< 5									
743258	205	226	< 5									
743259	205	226	< 5									
743260	205	226	< 5									
743261	205	226	< 5									
743262	205	226	< 5									
743263	205	226	10									
743264	205	226	85									
743265	205	226	20									
743266	205	226	< 5									
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743269	205	226	< 5									
743270	205	226	< 5									
743271	205	226	< 5									
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743273	205	226	< 5									
743274	205	226	< 5									
743275	205	226	< 5									
743276	205	226	15									
743277	205	226	< 5									
743278	205	226	< 5									
743279	205	226	< 5									
743280	205	226	< 5									

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 905-624-2806 FAX: 905-624-6163

To: McVICAR MINERALS **

2402 - 1 DUNDAS ST. W.
TORONTO, ON
M5G 1Z3

Project : MCVICAR
Comments: ATTN: GANG CHAI CC: STEW FUMERTON

Certificate Date: 25-AUG-97
Invoice No. : I9738397
P.O. Number :
Account : PGP

CERTIFICATE OF ANALYSIS A9738397

SAMPLE	PREP CODE		Au ppb FA+AA
743281	205	226	< 5
743282	205	226	10
743283	205	226	< 5
743284	205	226	< 5
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743301	205	226	< 5
743302	205	226	< 5
743303	205	226	< 5
743304	205	226	< 5
743305	205	226	< 5

CERTIFICATION:

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To: McVICAR MINERALS

2402 - 1 DUNDAS ST. W.
TORONTO, ON
M5G 1Z3

Project : McVICAR
Comments: ATTN: DR. GANG CHAI CC: STEW FUMERTON

Page Number :1
Total Pages :1
Certificate Date: 28-AUG-97
Invoice No. :I9739508
P.O. Number :
Account :PGP

CERTIFICATE OF ANALYSIS A9739508

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743345	255	295	< 5
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743367	255	295	< 5
743368	255	295	< 5
743369	255	295	< 5
743370	255	295	< 5
743371	255	295	< 5

CERTIFICATION: Adriana Alexandru

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga
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PHONE: 905-624-2806 FAX: 905-624-6163

To: McVICAR MINERALS

2402 - 1 DUNDAS ST. W.
TORONTO, ON
M5G 1Z3

Project : McVICAR
Comments: ATTN: DR. GANG CHAI CC: STEW FUMERTON

Certificate Date: 02-SEP-97
Invoice No. : I9739572
P.O. Number :
Account : PGP

CERTIFICATE OF ANALYSIS A9739572

SAMPLE	PREP CODE		Au ppb FA+AA									
743306	205	226	< 5									
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743310	205	226	< 5									
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743312	205	226	< 5									
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743331	205	226	< 5									
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743374	205	226	< 5									
743375	205	226	< 5									
743376	205	226	< 5									
743377	205	226	< 5									
743378	205	226	< 5									
743379	205	226	< 5									
743380	205	226	< 5									
743381	205	226	< 5									

CERTIFICATION: Adriana Alexandru

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To: McVICAR MINERALS

2402 - 1 DUNDAS ST. W.
TORONTO, ON
M5G 1Z3

Project : McVICAR
Comments: ATTN: DR. GANG CHAI CC: STEW FUMERTON

Certificate Date: 02-SEP-97
Invoice No. : I9739572
P.O. Number :
Account : PGP

CERTIFICATE OF ANALYSIS A9739572

SAMPLE	PREP CODE		Au ppb FA+AA
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743383	205	226	< 5
743384	205	226	< 5
743385	205	226	< 5
743386	205	226	< 5
743387	205	226	< 5
743388	205	226	< 5
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743390	205	226	15
743391	205	226	< 5
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743393	205	226	25
743394	205	226	< 5
743395	205	226	< 5
743396	205	226	5
743397	205	226	15

CERTIFICATION: Liliana Alexandre

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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To: McVICAR MINERALS

2402 - 1 DUNDAS ST. W
TORONTO, ON
M5G 1Z3

Project :
Comments: ATTN: GANG CHAI CC: STEW FUMERTON

Page Number 1
Total Pages 1
Certificate Date 10-SEP-97
Invoice No. I-9740127
P.O Number :
Accoun :

CERTIFICATE OF ANALYSIS A9740127

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA
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743399	205	226	< 5
743400	205	226	< 5
743401	205	226	< 5
743402	205	226	< 5
743403	205	226	< 5
743404	205	226	5
743405	205	226	< 5
743406	205	226	< 5
743407	205	226	< 5
743408	205	226	< 5
743409	205	226	5
743410	205	226	< 5
743411	205	226	< 5
743412	205	226	< 5
743413	205	226	< 5
743414	205	226	< 5
743415	205	226	< 5
743416	205	226	< 5
743417	205	226	< 5
743418	205	226	< 5
743419	205	226	< 5
743420	205	226	< 5
743421	205	226	< 5
743422	205	226	< 5
743423	205	226	< 5
743424	205	226	< 5
743425	205	226	< 5
743426	205	226	< 5
743427	205	226	< 5
743428	205	226	< 5
743429	205	226	< 5
743430	205	226	< 5
743431	205	226	< 5
743432	205	226	< 5
743433	205	226	< 5
743434	205	226	< 5
743435	205	226	< 5

Chemex Labs 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: McVICAR MINERALS

2402 - 1 DUNDAS ST. W.
TORONTO, ON
M5G 1Z3

Project :
Comments: ATTN: GANG CHAI CC: STEW FUMERTON

Certificate Date 10-SEP-97
Invoice No. I-9740626
P.O. Number :
Account :

CERTIFICATE OF ANALYSIS A9740626

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA
743436	205 226	< 5
743437	205 226	< 5
743438	205 226	< 5
743439	205 226	< 5
743440	205 226	< 5
743441	205 226	< 5
743442	205 226	< 5
743443	205 226	< 5
743444	205 226	< 5
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743446	205 226	< 5
743447	205 226	< 5
743448	205 226	< 5
743449	205 226	< 5
743450	205 226	< 5
743451	205 226	< 5
743452	205 226	< 5
743453	205 226	< 5
743454	205 226	< 5
743455	205 226	< 5
743456	205 226	< 5
743457	205 226	< 5
743458	205 226	< 5
743459	205 226	< 5
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743471	205 226	< 5
743472	205 226	< 5
743473	205 226	30
743474	205 226	< 5
743475	205 226	< 5

Chemex Labs 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: McVICAR MINERALS

2402 - 1 DUNDAS ST. W.
TORONTO, ON
M5G 1Z3

Project :
Comments: ATTN: GANG CHAI CC: STEW FUMERTON

Certificate Date 10-SEP-97
Invoice No. I-9740626
P.O. Number :
Account :

CERTIFICATE OF ANALYSIS A9740626

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA
743476	205	226	20
743477	205	226	< 5
743478	205	226	< 5
743479	205	226	< 5
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743481	205	226	< 5
743482	205	226	< 5
743483	205	226	< 5
743484	205	226	< 5
743485	205	226	< 5
743486	205	226	< 5
743487	205	226	< 5
743488	205	226	< 5
743489	205	226	< 5
743490	205	226	< 5
743491	205	226	< 5
743492	205	226	< 5
743493	205	226	< 5
743494	205	226	< 5
743495	205	226	< 5
743496	205	226	< 5
743497	205	226	< 5
743498	205	226	< 5
743499	205	226	< 5
743500	205	226	< 5

Ontario

Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Transaction Number (office use): 960820.00047

Assessment Files Research Imaging

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

52011SW2001 2.18309 MCVICAR LAKE 900

on 65(2) and 66(3) of the Mining Act. Under section 8 of the the assessment work and correspond with the mining land holder. stry of Northern Development and Mines, 6th Floor, 933 Ramsey

Instructions: -For work performed on Crown Lands before recording a claim, use form 0240.
-Please type or print in ink.

1. Recorded holder(s). (Attach a list if necessary.)

Name	Client Number
BHP MINERALS CANADA LTD.	108137
Address	**Telephone Number**
1597 Cole Blvd., Suite 250	(303) 232-7779
GOLDEN, Colorado, USA 80401	**Fax Number** (303) 235-0267
Name	**Client Number**
Address	**Telephone Number**
	Fax Number

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

☐ Geotechnical: prospecting, surveys, assays and work under Section 18 (regs)
☑ Physical: drilling, stripping, trenching and associated assays
☐ Rehabilitation

Work Type	Office Use
Diamond Drilling	Commodity
Assays	Total $ Value of Work Claimed 195,966
Date Work Performed From 26 7 97 (Day Month Year) To 6 9 97 (Day Month Year)	NTS Reference
Global Positions System Data (if available)	Township/Area: McVicar / Stoughton; M or G-Plan Number: G2121 / G2228
	Mining Division: Patricia; Resident Geologist District: Sioux Lookout

Please remember to:
-obtain a work permit from the Ministry of Natural Resources as required;
-provide a proper notice to surface rights holders before starting work;
-provide a map showing contiguous mining lands that are linked for assigning work;
-complete a attach a Statement of Costs, form 0212;
-include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name	Telephone Number
Stewart Fumerton	(705) 268-7945
Address	**Fax Number**
#205, 44 Brousseau Ave. Timmins, Ontario P4N 5Y2	
Name	**Telephone Number**
WG Langley Drilling	(905) 791-5534
Address	**Fax Number**
49 Jayfield Rd., Brampton, Ontario L6S 3G3	(905 791-3671
Name	**Telephone Number**
Address	**Fax Number**

4. Certification by Recorded Holder or Agent

I, Gang Chai (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent	Date
Gang Chai	April 6, 1998

Agent's Address	Telephone Number	Fax Number
McVicar Minerals Ltd. #2402, 1 Dundas St. W Toronto, Ontario M5G 1Z3	(416) 977-7420	(416) 977-8335

0241 (02/96)

Deemed July 6/98

RECEIVED
APR 07 1998
10a
GEOSCIENCE ASSESSMENT OFFICE

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

W9830.00847

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.		Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg	TB 7827	16 ha	$26,825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
~~eg~~	~~1234568~~	~~2~~	~~$8,892~~	~~$4,000~~	~~0~~	~~$4,892~~
1	1144671	1	✓ $17,637	800	$16,000	$837
2	1144676	1		800		
3	1144678	1		800		
4	1144679	1		800		
5	1144680	1		800		
6	1144683	1		800		
7	1144684	1		800		
8	1144685	1		800		
9	1144686	1		800		
10	1144687	1		800		
11	1144688	1		800		
12	1144689	1		800		
13	1144690	1		800		
14	1144691	1		800		
15	1144694	1		800		
		Column Totals	$17,637	$12,000	$16,000	$837

NOTE: (CONTINUED ON NEXT PAGE)

I, Gang Chai, do hereby certify that the above work credits are eligible under subsection 7(1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing	Date
Gang Chai	April 6, 1998

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- ☐ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- ☐ 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- ☐ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

0241 (02/96)

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

W9830.00047

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.		Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg	TB 7827	16 ha	$26,825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	~~1234568~~	~~2~~	~~$8,892~~	~~$4,000~~	~~0~~	~~$4,892~~
16	1144695	1		800 ✓		
17	1144696	1		800 ✓		
18	1144697	1		800 ✓		
19	1144698	1		800 ✓		
20	1144699	1		800 ✓		
21	1144700	1		800 ✓		
22						
23						
24						
25						
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27						
28						
29						
30						
31						
32						
33						
34						
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39						
40						
		Column Totals	$17,637	$16,800	$16,000	$837

I, Gang Chai , do hereby certify that the above work credits are eligible under subsection 7(1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: Gang Chai — Date: April 6, 1998

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APR 07 1998
GEOSCIENCE ASSESSMENT OFFICE

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

W9835.00047

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.		*Number of Claim Units.* For other mining land, list hectares.	*Value of work performed on this claim or other mining land.*	*Value of work applied to this claim.*	*Value of work assigned to other mining claims.*	*Bank.* Value of work to be distributed at a future date.
eg	TB 7827	16 ha	$26,825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	~~1234568~~	~~2~~	~~$8,892~~	~~$4,000~~	~~0~~	~~$4,892~~
1	1144746	1	$16,265	800	$11,200	$4,265
2	1144744	1		800		
3	1144745	1		800		
4	1144747	1		800		
5	1144748	1		800		
6	1144776	1		800		
7	1144777	1		800		
8	1144778	1		800		
9	1144779	1		800		
10	1144780	1		800		
11	1144782	1		800		
12	1144783	1		800		
13	1144784	1		800		
14	1144785	1		800		
15	1144786	1		800		
		Column Totals	$16,265	$12,000	$11,200	$4,265

I, Gang Chai , do hereby certify that the above work credits are eligible under subsection 7(1) of the *Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.*

Signature of Recorded Holder or Agent Authorized in Writing	Date
Gang Chai	April 6, 1998

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- ☐ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
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- ☐ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

RECEIVED
APR 07 1998
GEOSCIENCE ASSESSMENT OFFICE

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from ~~the Bank first,~~ followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

0241 (02/96)

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

W9830.00047

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.		Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg	TB 7827	16 ha	$26,825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	~~1234568~~	~~2~~	~~$6,892~~	~~$4,000~~	~~0~~	~~$4,892~~
1	1144777	1	$16,265	0		$16,265
2	1144784	1	$32,530	0		$32,530
3	1144974	16	$83,286	$12,800	$63,200	$7,286
4	846035	1		$800		
5	846036	1		$800		
6	886072	1		$800		
7	903209	1		$800		
8	903210	1		$800		
9	903217	1		$800		
10	903218	1		$800		
11	1144973	16		$12,800		
12	1145280	2		$1,600		
13	1169292	1		$800		
14	1169293	1		$800		
15	1179715	1		$800		
		Column Totals	$132,081	$35,200	$63,200	$56,081

NOTE: (CONTINUED ON NEXT PAGE)

I, Gang Chai, do hereby certify that the above work credits are eligible under subsection 7(1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: Gang Chai

Date: April 6, 1998

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- ☐ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- ☐ 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- ☐ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

2.19809

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

FINAL REVISION J 9830 00047

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.		Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg	TB 7827	16 ha	$26,825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	~~1234568~~	~~2~~	~~$8,892~~	~~$4,000~~	~~0~~	~~$4,892~~
16	1179716	1		$800		
17	1179719	1		$800		
18	1179720	1		$800		
19	1179725	1		$800		
20	1179805	16		$12,800		
21	1179806	12		$9,600		
22	1179807	12		$9,600		
23	1180581	1		$800		
24	1180603	4		$3,200		
25	1180640	1		$800		
26	1180641	1		$800		
27	1144747	1	$ 29,983	0	0	$ 29,983
28						
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40						
		Column Totals	$162,064 ~~$132,084~~	$76,000	$63,200	$ 86,064 ~~$66,084~~

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APR 14 1998
GEOSCIENCE ASSESSMENT OFFICE

I, Gang Chai, do hereby certify that the above work credits are eligible under subsection 7(1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: Gang Chai — Date: Mar 16, 1998

RECEIVED
APR 07 1998
GEOSCIENCE ASSESSMENT OFFICE

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (888) 415-9846
Fax: (705) 670-5881

Visit our website at:
www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

June 17, 1998

BHP MINERALS CANADA LTD.
33 YONGE STREET
SUITE 610
TORONTO, ONTARIO
M5E-1G4

Dear Sir or Madam:

Submission Number: 2.18309

Status

Subject: Transaction Number(s): W9830.00047 Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Lucille Jerome by e-mail at jeromel2@epo.gov.on.ca or by telephone at (705) 670-5858.

Yours sincerely,

ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Correspondence ID: 12448

Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.18309

Date Correspondence Sent: June 17, 1998 **Assessor:** Lucille Jerome

General Comment:
In all future assessment work submissions, please provide a better breakdown of the costs of the work. In this case, helicopter and or fixed wing costs could have been separated from the drilling costs. Without the proper cost breakdown, you may have to provide your receipts and cancelled cheques for future submissions.

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9830.00047	1144671	MCVICAR LAKE, STOUGHTON LAKE	Approval	June 17, 1998

Section:
16 Drilling PDRILL

Correspondence to:
Resident Geologist
Sioux Lookout, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):
Gang Chai
TORONTO, ON, CAN

BHP MINERALS CANADA LTD.
TORONTO, ONTARIO

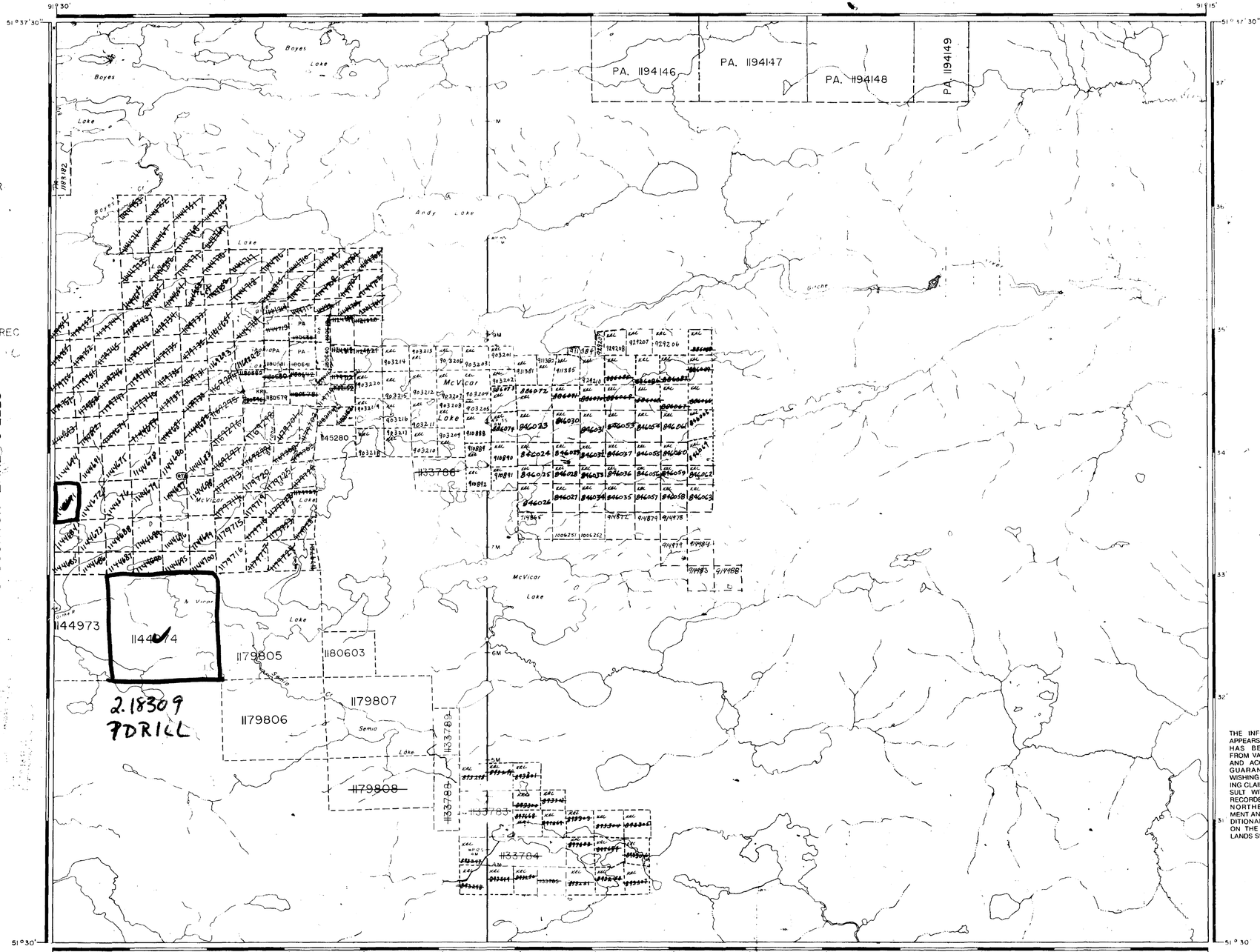
Correspondence ID: 12448

SADDLE LAKE G-2197

STOUGHTON LAKE G-2228

CANNON LAKE G-1978

MEEN LAKE G-2122



2.18309
7DRILL

94MAR04 REC

LEGEND

- HIGHWAY AND ROUTE No
- OTHER ROADS
- TRAILS
- SURVEYED LINES
  - TOWNSHIPS, BASE LINES ETC
  - LOTS, MINING CLAIMS, PARCELS ETC
- UNSURVEYED LINES
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT
- REMOTE TOURIST SET-UP (RTS)

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER IN COUNCIL	OC
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT R.S.O. 1970 CHAP 380 SEC 63 SUBSEC 1

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY
S.R.O. - SURFACE RIGHTS ONLY
M.+S. MINING AND SURFACE RIGHTS

Description	Order No	Date	Disposition # File

T.L.C. - TRAP LINE CABIN

SCALE 1 INCH = 40 CHAINS

1000 2000 4000 6000 8000
METRIC 500 1000 1 KM 2000 2 KM

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

AREA

McVICAR LAKE

M.N.R. ADMINISTRATIVE DISTRICT
SIOUX LOOKOUT
MINING DIVISION
PATRICIA
LAND TITLES / REGISTRY DIVISION
KENORA (PATRICIA PORTION)

Ministry of Natural Resources — Land Management Branch
Ontario

Date JANUARY, 1984

Number
G-2121

515912

520118W2001 2.18309 MCVICAR LAKE 200

Rent 30/90 C
April 11/90 C
May 17/90 C
June 28/90
July 30/90
Aug 31/90
Sept 30/90
Jan 31/91
Feb 9/91
April 9/91 E
Apr 5/91 R
April 10/91
MAY 24/91
May 27/91 R
Oct. 23/91 R
Oct. 24/91 E
MARCH 17/92 R

Apr. 27/92 R
Apr. 28/92 Rein

Mar 31/94 C

Apr 11/95 C
May 11/95 C
June 16/95 Cancelled

BAGGY LAKE G-1945

KAPIKIK LAKE G-2080

McVICAR LAKE G-2121

ZIONZ RIVER G-2280

91°45' 91°30' 51°37'30" 51°30'

44' 43' 42' 41' 40' 39' 38' 37' 36' 35' 34' 33' 32' 31'

37 36 35 34 33 32 31

Pa. 1054595 Pa. 1054596 Pa. 1054597 Pa. 1054598 Pa. 1144960

Saddle Creek, Boyes L., Boyes Creek, Boyes Lake, Bowen L., River, Blackpail L., Bertrand Creek, Bertrand Lake, Sor Creek, Lull Lake, Sor Cr., River, Gitche River, Gitche Lake, Stoughton Lake, Stoughton Creek

RTB

2.18309
PDRILL

114973

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

515913

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT
- REMOTE TOURIST SET-UP (RTS)

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" , SURFACE RIGHTS ONLY	
" , MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" , SURFACE RIGHTS ONLY	
" , MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER-IN-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1.

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. MINING RIGHTS ONLY
S.R.O. SURFACE RIGHTS ONLY
M.+S. MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File

12/17/97 LWW -3/89 7.20

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 2000
(1 KM) (2 KM)

AREA STOUGHTON LAKE

M.N.R. ADMINISTRATIVE DISTRICT
SIOUX LOOKOUT

MINING DIVISION
PATRICIA

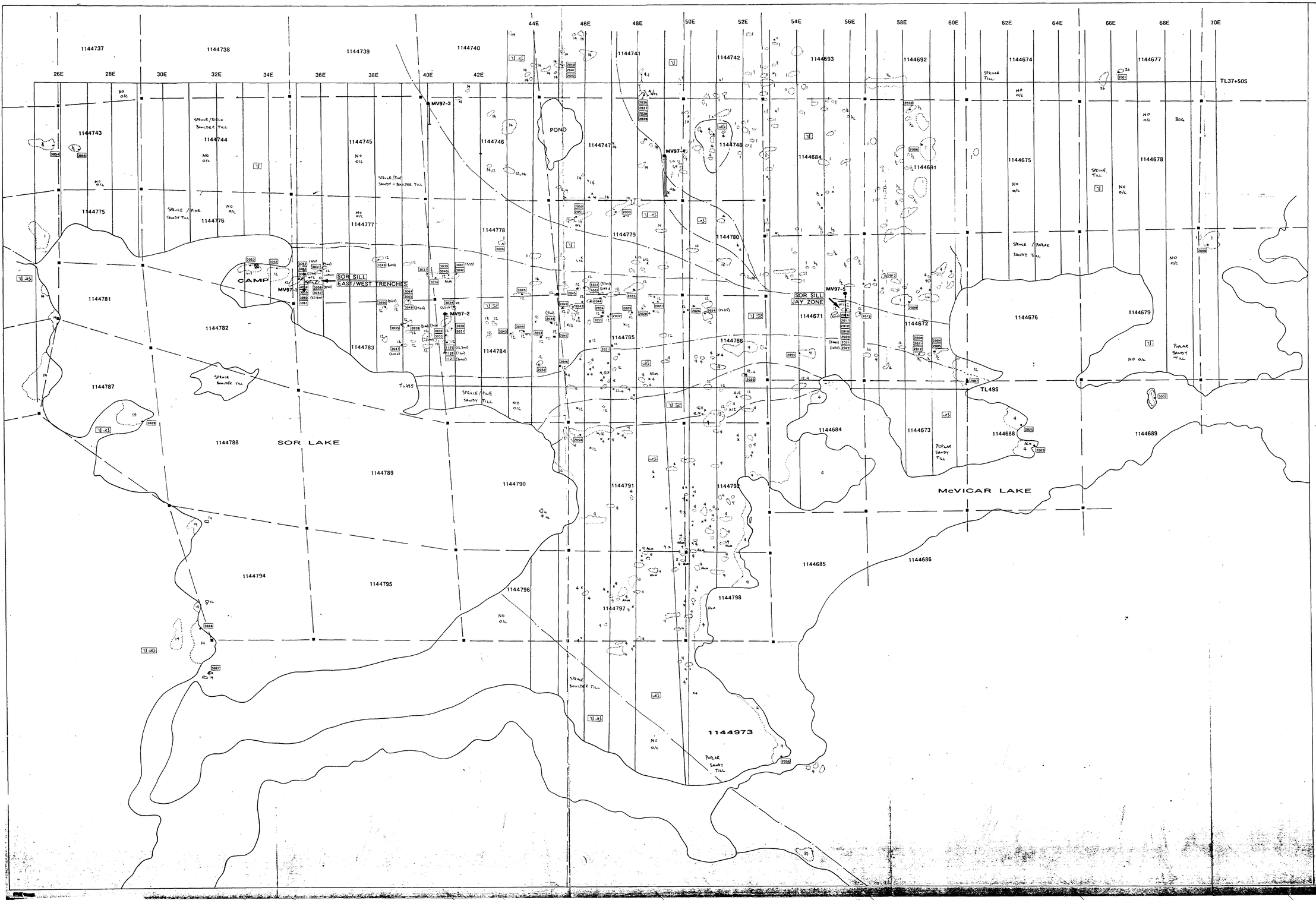
LAND TITLES / REGISTRY DIVISION
KENORA (PATRICIA PORTIO

Ontario Ministry of Natural Resources — Land Management Branch

Date FEBRUARY, 1984

Number G-2228

[redacted]



LEGEND

LATE INTRUSIVES
- 14 GRANITE
- 13 MAFIC DYKE
- 12 TONALITE

McVICAR TECTONITES
- 10 ALTERED ZONE STRUCTURE
- 10a QUARTZ VEIN
- 8 BRECCIATED/SHEARED GABBRO
- 7 BRECCIATED/SHEARED ANORTHOSITIC GABBRO
- 6 BRECCIATED/SHEARED BASALT

EARLY INTRUSIVES
- 4 GABBRO
- 4a ANORTHOSITE

INTERMEDIATE INTRUSIVE
- 11 MASSIVE
- 11a PORPHYRITIC

FELSIC VOLCANICS
- 2 MASSIVE
- 2a PORPHYRITIC
- 2b TUFF
- 2c BRECCIA

MAFIC VOLCANICS
- 1 BASALT
- 1a PORPHYRITIC
- 1b PILLOWED
- 1c TUFF

- SHEARING
- FOLIATION
- VEIN ORIENTATION
- FAULT (SHEAR BOUNDARY)
- CONTACT
- OUTCROP
- SMALL OUTCROP

- BHP CLAIM POST
- TRENCH
- 3005 SAMPLE #
- (2350) ASSAY (>500 PPB AU)
- MV97-3 DDH

McVICAR MINERALS LIMITED
EXPLORATION DEPARTMENT
TORONTO ONTARIO CANADA

McVICAR LAKE PROPERTY

GEOLOGY

SOR LAKE AREA

DATE	DRAWN	CHECKED	REVISED	N.T.S.	FILE	MAP

SCALE 1:5000
METRES

PLAN MAP

McVICAR LAKE

1144688 1144689 1144696 1144699

1144685 1144686 1144687 1144690 1144695 1144700

1144973 1144974

1179714 1179719 1179722 1179727

1179715 1179718 1179723 1179728

1179716 1179717 1179724 1179721

1179805

LOWER McVICAR LAKE

1180603

1179806 1179807

CHIP LAKE

WOODSTOCK LAKE

POND

POND

AGM ZONE

CHELLOW TRENCHES

MV97-10 MV97-9 MV97-8 MV97-7 MV97-6

TL10N

BL0

TL10S

36W 34W 32W 30W 28W 26W 24W 22W 20W 18W 16W 14W 12W 10W 8W 6W 4W 2W 0 2E 4E 6E 8E

LEGEND

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McVICAR TECTONITES
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- VEIN ORIENTATION
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- SMALL OUTCROP

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- TRENCH
- 3005 SAMPLE #
- (2350) ASSAY (>500 PPB AU)
- MV97-3 DDH

McVICAR MINERALS LIMITED
TORONTO ONTARIO CANADA

McVICAR LAKE PROPERTY

GEOLOGY

LOWER McVICAR LAKE AREA

DATE	DRAWN	CHKD/ND	REVISED	N.T.S.	FILE	MAP
	C/W			52 O/11		OP

SCALE 0 100 200 300 METRES

PLAN MAP 2

52011SW2001 2.18309 MCVICAR LAKE 230