DIAMOND DRILLING REPORT

ON THE

Rateria Property
Tenure Number 513870
MX-4-402

Kamloops Mining Division

NTS 092I.036

Prepared for

HAPPY CREEK MINERALS LTD.
#2310-1066 West Hastings Street
Vancouver, B.C.
V6E 3X2

By

David E. Blann, P.Eng.
Standard Metals Exploration Ltd.

February 2007

Table of Contents

Tables

Appendices

Summary

The Rateria property is located approximately 10 kilometres southeast of the Valley Copper operation of Teck-Cominco Ltd, Highland Valley, and approximately 50 kilometres north of Merritt British Columbia.

The Rateria property consists of 7 cell claims totaling approximately 3,800 hectares located between 1400 and 1600 metres elevation. The area has received several exploration programs dating from the early 1950's, and locally a complicated claim ownership history and widespread, thick glacial till has affected exploration programs. Wide spaced and shallow historical percussion drilling from 1970 returned up to 0.57% copper over 9.1 metres at a final depth of 42 metres northeast of the Jay 11 prospect. The property is underlain by the multiphase Guichon batholith, Upper-Triassic Lower Jurassic in age and is hornblende-biotite granodiorite, quartz diorite to quartz monzonite in composition. These rocks are locally described, from east to west, and oldest to youngest, Chataway, Skeena/Bethlehem, and Bethsaida varieties. Small plugs, dikes and sills of Bethsaida or younger include quartz feldspar porphyry, aplite. These rocks are also host to the large Valley, Lornex deposits to the northwest. Large scale structures trend north to northwest and northeast to east. Fractures contain chlorite epidote, calcite, and quartz-sericite, and kaolin minerals. Dominantly bornite, chalcocite and chalcopyrite occur with quartz veins and quartz sericite kaolinite alteration.

In 2006, Happy Creek Minerals Ltd. performed approximately 2,400 metres of NQ diamond drilling in 14 holes covering a portion of a 2005 induced polarization anomaly near the Jay 11 and Three Creeks prospect. Drill holes R06-8, 11 and 14 returned the best results. Drill core samples from R06-08 returned 32.0 metres containing 0.24% copper, and R06-14 returned 94.0 metres of 0.15% copper, including 1.0 metres containing 3.88% copper, 126.0 g/t silver. These holes may occur in proximity with an approximately 200 metre wide northerly trending mineralized fault that is subparallel to the Lornex fault and remains open in extent.

The geology, structure, alteration, and copper minerals present in outcrop, float, and drill core on the Rateria property are consistent with a calc alkaline porphyry copper system of a Highland Valley style.

Recommendations include diamond drilling of 3,000 metres in ten holes to define controls and locate higher grade mineralization in proximity with holes R06-08, 11 and 14 and to the north and south. Cost to complete this work is estimated at approximately $750,000.

1. Location and Access

The Rateria Property is located approximately 10 kilometers southeast of the Valley Copper-Lornex mine, Highland Valley, British Columbia (Figure 1). The property is centred on 120^0 57” 27’ West longitude and 50^0 21” 59’ North latitude, on NTS mapsheet 092I.036. Access to the property from Merritt, B.C., is via an all weather logging road, approximately 34 kilometres in length. Good quality, recently built logging roads transect the property. As the property is in relative proximity with the Valley Copper Mine and operating mill, infrastructure is excellent.

The Rateria property is situated within an upland plateau area approximately 1400 and 1600 metres elevation, and is underlain by thick blanket of sand and gravel of glacio fluvial origin. The forest is comprised of lodgepole pine and locally fir, birch, poplar and spruce, and grass covers the forest floor and open swampy areas. The area has burnt several times, and logging activity in response to pine beetle infestation is on-going. The area is characterized by an interior climate; temperatures range from -40 to +40 degrees centigrade, and 50-100 cm of precipitation, occurs mostly as snow in the winter months.

2. Claim Status

The Rateria property is composed of seven cell claims totaling approximately 3,800 hectares registered in the name of Brian Malahoff (Figure 2, Table 1). An option agreement was signed in December 2004 with Happy Creek Minerals Ltd. whereby the company can earn a 100% interest in the property by paying cash, issuing shares and performing work. This report was prepared in connection with B.C Permit MX-4-402, Rateria; 1620473, Kamloops.

3. History

The Rateria property covers an historical claim boundary between Chataway Explorations Co. Ltd/ King Resources Co, and Pathfinder Resources/ International Mogul Mines Ltd. This boundary was in effect between 1968 and at least 1973 for which exploration data is in part available. Asarco Inc. optioned the Chataway property between 1970 and 1971(Bayley, 1970). Limited data is available for work done prior to 1971, and after 1972. It is assumed the land positions were, at least in part amalgamated into Highmont Mining Company, Teck Corp, and later National Trust Company, and finally Teck-Cominco Inc., Valley Copper Mines Ltd. By 1999 a large number of claims had lapsed south of the mines, and the Rateria property was staked by Brian Malahoff

Between 1968 and 1973, the area of the Rateria property was subject to regional silt geochemistry, grids, soils (in part by a qualitative Rubianic method), geological mapping and low power induced polarization surveys, bulldozer trenching, road building, percussion and minor diamond drilling (References). In 1970, Asarco drilled percussion holes to test up to 100 feet of bedrock usually to a total depth of approximately 90-120 feet on average, but locally 200 or more feet, on a 2000 foot grid pattern, over a very large area. Two additional percussion holes were drilled 285 metres southwest and 312 metres northeast of percussion hole 70-D8c containing 0.57% copper in the last 30 feet; these holes, drilled to depths of 120 and 200 feet, respectively did not intersect encouraging values. In 1972 a diamond drill hole was located 45 metres west of and drilled toward D-8c at -45 degrees. Hole M72-4 was stopped at 225 feet (68.6 metres, or 48.5 metres in plan view) and the last sample contained 0.06% copper and strong oxidation as noted in drill logs; this hole may not to have gone far enough to cut the mineralized zone in hole 1970-D8c.

Diamond drillhole 1973-4 is 848 feet in length, -60^0 dip, and directed eastward toward the Three Creeks prospect (outside of the 2005 IP anomaly).

Approximately 100-300 metres north of the Rateria property, the Yubet prospect is reported to contain 30,000 tons grading 2.5% copper (not NI-43-101, for historical reference only) with abundant bornite, chalcopyrite and locally chalcocite (Minfile

092ISE150), and a coincident soil geochemical anomaly trend south (International Mogul Mines).

In 2000 Cominco Ltd. optioned the Rateria property and commissioned an induced polarization survey (Bond, 2000), performed by Scott Geophysics, of Vancouver, B.C. A pole dipole array was used with an “a” spacing of 100 metres and “n” separations of 1 to 6, with a 10 kw generator. The survey was conducted on lines spaced 300 metres apart and oriented east-west. This survey did not cover the north or south portion of the property, however identified several strong through-going structural features comprised of slightly elevated chargeability and resistive values.

In the fall of 2004, and early spring 2005, Happy Creek Minerals Ltd optioned the Rateria property and performed silt geochemistry, gps surveying of topographic and historical features, grids and tied-in approximately, the historical work with current NAD83UTM control. In November, 2005, 12.5 km of line cutting an a 3D induced polarization survey was performed over the Jay 11 and Three Creeks prospects and identified an anomaly approximately 1.6 kilometres by 600 metres in dimension.

4. Regional Geology

The Rateria property is located within the Guichon batholith, 198+/-8my, Upper Triassic-Lower Jurassic in age, covering an area of approximately 1000square kilometres (McMillan, CIM Special Volume 15, 1976). The batholith is elongated in a north-northwesterly direction, and consists of several nearly concentric phases having sharp to locally gradational contacts, and in part are brecciated (Figure 3). Intrusive phases are distinguished by their texture and composition after Northcote, 1969. Cross cutting relationships suggest younger, and more felsic (and less magnetite) intrusive phases appear in the central core of the batholith.

The oldest phase of the Guichon batholith is the Border or Hybrid phase, a fine to medium grained, mafic rich diorite, and quartz diorite and locally contains xenoliths of amphibolite, and monzonite composition. The Highland Valley phase consists of Guichon and Chataway varieties. The Guichon variety is a quartz diorite to granodiorite and contains 15% mafic minerals, and the Chataway variety is a hornblende granodiorite with 12% evenly distributed mafic minerals.

The Bethlehem phase, a hornblende porphyritic granodiorite contains around 8% mafic minerals, and amoeboid quartz crystals. Skeena variety is similar to Bethlehem phase, however is comprised of coarser grained granodiorite to quartz diorite, slightly lower mafic content, and coarser grained, subhedral to anhedral quartz.

The youngest intrusive phase of the Guichon batholith is the Bethsaida, biotite+/- hornblende quartz porphyry monzonite to granodiorite in composition, and contains around 6% mafic minerals, dominantly biotite. The core of the Guichon batholith, including the Rateria property is within a regional magnetic low (Figure 4).

A swarm of porphyry dykes cut Bethlehem granodiorite north of the Valley Copper deposit, and dykes and small plugs of porphyry cut Skeena variety; some porphyry dykes appear as offshoots of Bethsaida phase (McMillan, 1976).
Mineral occurrences of copper, molybdenum occur widely distributed throughout the Guichon batholith, however, the large deposits are either associated with the dyke swarm, north of the Highland Valley, or occur in or near the contact of the Bethsaida phase and related dykes. The major deposits in and south of Highland Valley all appear younger than Bethsaida phase.

At the Valley and Lornex deposits, dominant ore-controlling fracture sets trend north-northwest to northeast and locally east-southeast. The Lornex Fault strikes north, dips steeply with a dextral sense slip, cuts the length of the Guichon batholith; this fault appears to cut off the northwest end of the Lornex deposit, where a 55-60^0 west dipping breccia zone contains bornite, and >0.60% copper. Copper minerals are associated with strong cross cutting fault and fracture zones.

Copper sulphides occur in fractures filled with quartz, sericite (2M1 muscovite-McMillan, 1976), k-feldspar and green to brown colored biotite, and quartz vein stock work zones are developed locally. Hypogene copper sulphides consist dominantly of chalcopyrite, bornite, and minor digenite. A total sulphide content of only around 1% occurs in the ore zones, and is comprised of nearly equal amounts of chalcopyrite and bornite. A kaolinite alteration overprint of the potassic alteration assemblage occurs is spatially associated with ore zones. Pyrite is reported to occur in amounts of less than1% in a propylitic fringe to potassic alteration. Oxide minerals include limonite, malachite, chalcocite, native copper and possibly tenorite, and occur above hypogene copper sulphides zones.

Alkaline and felsic volcanic dike, flow, and tuff cut all previous units and are Eocene-Miocene in age. The area was covered by ice during glaciation, and removed in part Tertiary and older rocks, and deposited between 1 and 30 metres or more of till, glaciofluvial and lacustrine cover, with a 165^0 direction.

5. Property Geology

Less than 5% of the property is underlain by rock outcrops, and occur in limited exposures such as creek beds, old melt-water channels and locally crest of hills. Although use of a bulldozer for trenching in the 1970' appears widespread, the depth of glacial deposits of between 7 and 30 metres limited trenching effectiveness. Property geology is largely derived from drill core and scattered outcrops.

The western part of the property is underlain by quartz rich, mafic poor intrusive rocks of quartz-diorite, granodiorite, quartz-monzonite composition (possible "Bethsaida variety") and occurs in northerly trending contact with medium grained granodiorite, biotite quartz diorite (possible "Skeena variety) to the east. Further east, a north trending contact occurs between Skeena variety and medium-coarse grained granodiorite (possible "Chataway variety). Refer to Figures, 4 and 4a. Magnetite concentrations of between 1-5% in part replaces altered mafic minerals, and may be deuteric in origin. Locally dykes and small plugs of quartz monzonite, aplite, quartz and feldspar porphyry, and quartz-k-feldspar-crowded feldspar porphyry occur. Areas of strong to intense fracturing and shearing over 10 to 100 metres occur in drill core. Intensely fractured zones contain alteration that is locally independent of the degree of fracturing. Fractures occurring in drill holes R06-04, R06-05, R06-06, R06-08, R06-11 and R06-14 contain moderate to strong pervasive fine to medium grained, pale green to white flaky sericite or muscovite, minor kaolin, calcite, quartz flooding and veinlets between 5-35 mm in width. Quartz phenocrysts occur from 2-5 mm in size, however, where sericite alteration increases, they become sub-rounded and larger in size and frequency. Quartz vein orientation measurements in vertically oriented drill core infer 1-40 and 70-90 degree dips, and suggest at least two cross cutting vein sets occur. Quartz veins and sericite+/- kaolinite altered wall rock contain trace to 5% bornite, chalcocite, and locally chalcopyrite. Minor bornite, chalcopyrite occurs with chlorite-epidote and weak sericite-clay altered rocks as in holes R06-1, R06-02, R06-03, R06-10, R06-12 and R06-13. Strong iron oxide and abundant mafic minerals occur in holes R06-10 and R06-12, located in the Three Creeks area and confirm a major rock change to more mafic Chataway variety granodiorite occurs eastward on the property.

6. 2006 Exploration

Between August 15 and November 17th, 2006, a program of diamond drilling of approximately 2400 metres in 14 holes was completed in the area of the 2005 induced polarization anomaly (Figure 4a). Drill core logs, core recovery, core sample assay results, and certificates of analyses are located in Appendix A, B, respectively. Cross sections of diamond drill holes are located in Figures 6,7,8,9,10,11,12,13, Appendix C.

Diamond drill holes were generally vertical with the exception of holes,2, 6,14, and designed to test from west to east a central portion of the IP anomaly. The program required a full time water truck and trailer from Gallant Trucking, Kamloops, B.C., as well as an excavator provided by Al James of Merrit, B.C., to bring water to the drill(s) and prepare drill sites and access trails, respectively. Drill core was in part logged by Marie Brannstrom, Arnie Pollmer, P.Geo, Tobias Schoettler of Coast Mountain Geological Ltd., Vancouver, B.C., and Greg Thomson, P. Geo., a consulting geologist. Drill core was brought from the drill site to Triggs Mini Storage in Lower Nicola, B.C., and logged and spilt by core saw. Core boxes were transported back to the property and are stored in a 40 foot locked steel container near the northwestern corner of the property. One half of the cut core were placed in plastic bags, and tied closed using zap straps, and between 4 and 10 samples placed into larger rice bags and zap strap closed and shipped by truck or bus to Acme Analytical Laboratories, Vancouver, B.C. There, samples were prepared and analyzed by 15 gram ICP-MS for 34 elements, with over limit and higher grade material re-analyzed by ICP Assay technique for 12 elements.

7. Discussion

The Rateria property is located in the southeast portion of the Guichon batholith, approximately 10 kilometres southeast of the Valley Copper operations of Teck-Cominco, Canada's largest metal mine. The property is 95% covered by glacial deposits of sand, gravel and till, however, outcrop, float and historical drilling suggest it is underlain by granodiorite, quartz diorite to quartz monzonite and dikes and small plugs of crowded quartz feldspar porphyry, and locally aplite composition. These rocks are tentatively assigned to the Bethsaida, Skeena, Chataway variety intrusive rocks, representing the youngest phases of the batholith and are similar to the Lornex, Valley, JA deposits further north. North trending geological contacts between these units are affected by regional scale strike slip faults and conjugate splays trending north, northwest, northeast and east-west occur.

Geology, structure, alteration and copper minerals present in outcrop, float, historical percussion and 2006 drill core , and strong soil and silt geochemistry is consistent with a large calc alkaline Highland Valley style porphyry copper-molybdenum system.

Analytical results from 607 core samples have a statistical background of 15-100 ppm copper, and a log normal 80%, 90% and 95% probability values of 224, 400, 565 ppm copper, respectively. Values above 500 ppm copper over 50 or more metres are considered significant for a porphyry copper system. Drill holes R06-08 returned 32.0 metres containing 0.24% copper, and R06-14 returned 94 metres containing 0.15% copper. Locally higher grade intervals include up to 1.0 metre containing 3.88% copper, 126.0 g/t silver. Poor core recovery in zones containing copper mineralization suggests analytical results are approximate for some areas. The geology, structure, alteration, nature and concentration of copper minerals in holes R06-4, 8, 11 and 14 (Figure 8) suggest these holes may lie in proximity with a 200 metre wide northerly trending large scale mineralized fault zone that continues north and south through the Rateria property.

8. Conclusions

The Rateria property is located approximately 10 kilometres southeast of the Valley Copper Mine, Highland Valley, in south central British Columbia. Excellent access and infrastructure is in place.

The Rateria property is underlain by granodiorite, quartz diorite to quartz monzonite tentatively assigned Bethsaida, Skeena, Chataway varieties of the Guichon batholith, representing the youngest phases; these rocks are cut by dykes and small plugs of crowded quartz feldspar porphyry and aplite. Faults and fractures trend north to northwest and northeast to locally easterly, and are filled with variable concentrations of chlorite, epidote, calcite, quartz, flaky sericite, k-feldspar, kaolinite. Quartz veins and quartz-sericite filed fractures contain variable concentrations of bornite, chalcocite and locally chalcopyrite. Iron oxides vary from yellow-red to deep red and brown in color and occur generally near surface however, iron oxides to over 150 metres depth occur in the Three Creeks area.

Diamond drilling in 2006 has identified a new zone of copper mineralization containing up to 94.0 metres of 0.15% copper and locally 1.0 metres of 3.88% copper, 126.0 g/t silver in hole R06-14 located northeast of the Jay 11 and west of the Three Creeks prospect. Results from holes R06-04, 8, 11 and 14 suggest they may lie in proximity with a northerly trending large scale and mineralized fault zone that continues north and south through the Rateria property. The geology, structure, alteration and copper minerals present in 2006 drill core are consistent with a calc-alkaline porphyry copper system.

9. Recommendations and Budget

The new discovery of porphyry style copper mineralization on the Rateria property is significant and further exploration to define the extent of mineralization in holes R06-08 and R06-14 is recommended. In addition, drilling to the south of R06-11 should also be performed.

1) Diamond drilling of 10 holes, 300 metres each totaling 3,000 metres.
   Estimated Cost: $750,000.00

Respectfully Submitted,

"David E. Blann"

____

David E Blann, P.Eng.

10. Statement of Costs

Wages		# days	$/day			Totals
D. Blann, P.Eng		40.0	$700.00			$28,000.00
G. Thomson, P.Geo		20.0	$600.00			$12,000.00
T. Schoettler, Geologist		60.0	$550.00			$33,000.00
M. Brannstrom, Geologist		7.0	$550.00			$3,850.00
A. Pollmer, P. Geo		45.0	$700.00			$31,500.00
Stu		65.0	$450.00			$29,250.00
Abe		7.0	$200.00			$1,400.00
Owen Veber		30.0	$250.00			$7,500.00
		274				$146,500.00
Disbursements			# metres	$/metre		
Frontier Diamond Drilling			2,400.00	$140.00		$336,000.00
Gallant Trucking- water hauling						$35,000.00
Al James, Excavator- access trails and drill site prep						$22,000.00
			Total days	$/day		
Four 4X4 Trucks	4	65	260.00	$100.00		$26,000.00
Room/Board at Merrit man-days			274	$90.00		$24,660.00
Triggs Storage/core logging facility						$7,000.00
Communications,cell and FM radios			274	$10.00		$2,740.00
Field Supplies						$5,000.00
Analytical Services						
Assays	Rocks/Core/ blanks/ pulps		650	$17.00		$11,050.00
		repeats	100	$12.00		$1,200.00
Reproductions						$1,500.00
Data processing and Report						$5,000.00
						$482,150.00
					Wages and Disbursements	$623,650.00
					10% Management	$62,365.00
				Total		$686,015.00

11. References

Bayley, E.P, 1970, Summary Report of Percussion Drilling Program, Chataway Exploration Co. LTD, Highland Valley Claim Group, for Asarco.

Blann, D.E., P.Eng., 2005, Geology, Geochemical Report on the Rateria Property, Kamloops Mining Division, Highland Valley, B.C., for Happy Creek Minerals Ltd.

Blann, D.E., P.Eng., 2006, Geology, Diamond Drilling, and Geophysical report on the Rateria Property, Kamloops Mining Division, for Happy Creek Minerals Ltd.

Bond, Lorne, P.Geo, 2000, Geophysical Report on the Rateria Mineral Claims, Kamloops Mining Division, for Cominco Ltd.Philp, RHD, Hawley, RG., 1971, Report on the Geological, Geochemical, and Magnetometer Surveys on the Roscoe Lake Property, Highland Valley, B.C., for Pathfinder Resources Ltd.

Hallof, Phillip G., Ashton W. Mullan, 1972, Report on the Induced Polarization and Resistivity Survey on the Chataway Claim Group, prepared for International Mogul Mines Ltd.

Meyer, W., Robinson, M.C., 1968, Report on Geological (petrographic) Survey of the Chataway Exploration Co LTd., Property, Chataway Lake, B.C., for King Resources Company.

Reed., AJ., 1971, Report on Geological and Geochemical work performed by Highmont Mining Corporation Ltd on the PEN claims, Highland Valley area, Kamloops Mining Division, B.C. Asst # 2901. (Note property is north of Rateria Claims)

Sanford, G.R., 1983, Diamond Drilling Report on the Roscoe 1 Mineral Claim, Highmont Mines, prepared for National Trust Company Limited, Ass# 11,369. (Note: Property is north of Rateria Claims)

Sutherland Brown, Editor, 1976, Porphyry Deposits of the Canadian Cordillera, CIM Special Volume 15.

Tsang, L.C.H., 1985, Percussion Drilling Report on the Roscoe 1 Mineral Claim, Kamloops Mining Division, Highmont Mining Corporation, prepared for National Trust Company Limited. Asst # 13824 (Note: property is north of Rateria Claims)

Willars, Jack G., P.Eng., 1972, Report on the Geological Survey and Diamond Drilling on the Property of Chataway Explorations Co. Ltd., for International Mogul Mines Limited. Asst # 4050.

12. Statement of Qualifications

I, David E. Blann, P.Eng., of Squamish, British Columbia, do hereby certify:

That I am a Professional Engineer registered in the Province of British Columbia.

That I am a graduate in Geological Engineering from the Montana College of Mineral Science and Technology, Butte, Montana, 1987.

That I am a graduate in Mining Engineering Technology from the B.C. Institute of Technology, 1984.

That I have been actively engaged in the mining and mineral exploration industry since 1984, and conclusions and recommendations within this report are based on property fieldwork conducted between 2004, 2005 and 2006 and from a review of historical literature.

Dated in Squamish, B.C., February 12, 2007

"David E. Blann"

David E Blann, P.Eng.

Table 1

Mineral Tenure

Claim	Tenure #	Owner	Mapsheet	Area	Expiry
Rateria	513870	116699	092I.036	1154.2	2014/dec/31
New Rateria	511809	116699	092I.036	144.26	2014/dec/31
Rateria NE	522356	116699	092I.036	494.41	2014/Nov17
Mal	528775	116699	092I.036	494.42	2014/feb/23
Mal 2	528778	116699	092I.036	514.86	2014/feb/23
Rateria North	529011	116699	092I.036	514.8	2014/feb/27
Rateria North-2	529013	116699	092I.036	515.1	2014/feb27

Table 2

Drill Core Assay Summary

Rateria Property

Table 2
2006 Diamond Drilling
Assay Summary

DDH	Hole Length (m)	Number of Samples	Metres Sampled	Average Copper (ppm)	From (m)	To (m)	Width (m)	Cu %
1	255.0	36	88.4	101				
				includes	194.2	197.3	3.1	0.254
2	181.0	23	40.87	20				
3	97.0	6	16	62				
4	142.4	64	129.4	318				
					35.0	41.0	6.0	0.214
5	128.7	46	105.6	134				
				includes	96.0	100.0	4.0	0.123
				and	107.0	109.0	2.0	0.158
6	146.0	64	150.33	72				
				includes	148.0	150.0	2.0	0.106
7	64.0	12	33.8	26				
8	194.8	84	182.8	690				
				includes	10.0	94.0	84.0	0.136
				and	62.0	94.0	32.0	0.241
				and	88.0	90.0	2.0	
9	168.9	25	68.6	89				
10	214.0	55	153.4	131				
				includes	131.7	134.8	3.0	0.107
11	147.8	34	105.5	612				
				includes	38.3	60.1	21.8	0.130
12	172.9	41	122.6	30				
13	203.3	51	150.3	86				
				includes	105.8	108.8	3.0	0.105
14	168.3	57	156.1	1041				
				includes	12.2	106.2	94.0	0.150
				includes	22.5	23.5	1.0	3.884
				includes	66.2	90.5	24.3	0.203

Table 2
2006 Diamond Drill Hole Assays

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-01	20.43	23.48	3.05	4001	14.1	1.1	<.1	0.5
R06-01	26.52	29.57	3.05	4002	17.1	0.5	<.1	0.8
R06-01	32.62	35.67	3.05	4003	15.7	0.8	<.1	<.5
R06-01	41.77	44.82	3.05	4004	10.1	0.2	<.1	<.5
R06-01	50.91	53.96	3.05	4005	10.1	0.7	<.1	<.5
R06-01	60.06	63.11	3.05	4006	7.5	0.2	<.1	<.5
R06-01	69.21	70.73	1.52	4007	25.4	0.9	<.1	<.5
R06-01	81.40	84.45	3.05	4008	513.4	1.2	0.4	<.5
R06-01	85.98	87.50	1.52	4009	142.5	2.0	<.1	<.5
R06-01	87.50	89.02	1.52	4010	50.6	0.8	<.1	<.5
R06-01	89.02	90.55	1.52	4013	6.7	0.2	<.1	<.5
R06-01	92.07	93.60	1.52	4011	76.7	0.2	<.1	0.6
R06-01	93.60	95.12	1.52	4012	18.3	0.9	<.1	<.5
R06-01	105.79	108.84	3.05	4022	74.7	0.8	16.4	<.5
R06-01	113.41	116.46	3.05	4014	13.8	0.9	<.1	<.5
R06-01	117.99	119.51	1.52	4015	34.6	0.1	<.1	<.5
R06-01	133.23	136.28	3.05	4016	10.4	0.8	<.1	<.5
R06-01	143.90	146.95	3.05	4017	12.2	0.2	<.1	<.5
R06-01	146.95	148.48	1.52	4018	43.5	0.8	<.1	<.5
R06-01	154.57	157.62	3.05	4019	79.7	0.1	<.1	<.5
R06-01	162.20	163.72	1.52	4020	79.7	1.0	<.1	<.5
R06-01	163.72	166.77	3.05	4021	160.9	0.4	0.1	<.5
R06-01	166.77	168.29	1.52	4023	773.2	0.6	0.2	<.5
R06-01	168.29	169.82	1.52	4024	14.7	0.7	<.1	<.5
R06-01	175.91	178.96	3.05	4025	17.0	0.2	<.1	<.5
R06-01	185.06	188.11	3.05	4026	29.0	0.9	<.1	<.5
R06-01	192.68	194.21	1.52	4027	24.9	0.2	<.1	<.5
R06-01	194.21	197.26	3.05	4028	831.9	1.8	0.4	<.5
R06-01	197.26	200.30	3.05	4029	103.3	0.2	<.1	<.5
R06-01	206.40	209.45	3.05	4030	46.2	0.8	<.1	<.5
R06-01	221.65	224.70	3.05	4031	51.2	0.3	<.1	<.5
R06-01	227.74	229.27	1.52	4032	31.2	0.7	<.1	1.3
R06-01	233.84	236.89	3.05	4033	92.3	1.9	<.1	<.5
R06-01	242.99	244.51	1.52	4034	39.2	1.4	<.1	<.5
R06-01	252.13	255.18	3.05	4035	131.3	2.5	<.1	<.5
R06-01	261.28	264.33	3.05	4036	15.6	1.0	<.1	1.2
R06-02	18.00	19.00	1.00	4037	30.2	0.3	<.1	0.7
R06-02	27.00	28.00	1.00	4038	48.8	0.6	<.1	<.5
R06-02	30.00	31.00	1.00	4039	23.0	0.3	<.1	<.5
R06-02	37.00	38.00	1.00	4040	8.2	0.9	<.1	<.5
R06-02	43.00	45.00	2.00	4041	6.3	0.3	<.1	<.5
R06-02	51.00	52.00	1.00	4042	11.4	1.1	<.1	<.5
R06-02	54.00	57.00	3.00	4043	21.7	0.4	<.1	<.5
R06-02	58.00	59.00	1.00	4044	42.2	0.6	<.1	0.8
R06-02	66.00	69.00	3.00	4045	12.4	0.4	<.1	<.5
R06-02	71.00	73.00	2.00	4046	9.2	0.5	<.1	<.5
R06-02	81.00	82.00	1.00	4047	40.3	0.4	<.1	<.5
R06-02	97.00	99.67	2.67	4051	140.3	0.7	<.1	<.5
R06-02	105.00	106.00	1.00	4052	3.6	0.6	<.1	<.5

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-02	106.00	107.00	1.00	4053	5.5	0.5	<.1	<.5
R06-02	108.00	109.00	1.00	4054	11.2	1.4	<.1	<.5
R06-02	109.00	110.00	1.00	4055	8.0	0.2	<.1	<.5
R06-02	110.00	111.00	1.00	4056	6.5	0.6	<.1	<.5
R06-02	115.00	118.00	3.00	4057	2.3	0.7	<.1	<.5
R06-02	120.00	121.00	1.00	4058	6.0	0.2	<.1	<.5
R06-02	130.00	133.20	3.20	4059	4.3	0.4	<.1	<.5
R06-02	136.00	137.00	1.00	4060	7.7	0.3	<.1	<.5
R06-02	148.00	151.00	3.00	4061	6.1	0.5	<.1	<.5
R06-02	169.00	172.00	3.00	4062	4.1	0.3	<.1	<.5
R06-02	179.00	181.00	2.00	4063	3.5	0.5	<.1	<.5
R06-03	38.00	41.00	3.00	4501	35.7	0.7	<.1	<.5
R06-03	41.00	44.00	3.00	4502	108.1	0.5	<.1	<.5
R06-03	60.00	63.00	3.00	4503	78.0	0.5	<.1	1.7
R06-03	66.00	69.00	3.00	4504	92.0	0.4	<.1	1.3
R06-03	80.00	82.00	2.00	4505	16.1	0.5	<.1	<.5
R06-03	95.00	97.00	2.00	4506	11.7	0.3	<.1	<.5
R06-04	13.00	15.00	2.00	4064	133.1	0.4	0.2	<.5
R06-04	15.00	17.00	2.00	4065	90.8	0.7	0.2	<.5
R06-04	17.00	19.00	2.00	4066	99.4	0.3	0.1	<.5
R06-04	19.00	21.00	2.00	4067	181.4	0.8	0.2	<.5
R06-04	21.00	23.00	2.00	4068	204.8	0.1	0.3	1.0
R06-04	23.00	25.00	2.00	4069	459.9	0.6	0.7	0.7
R06-04	25.00	27.00	2.00	4070	44.9	0.2	<.1	0.7
R06-04	27.00	29.00	2.00	4071	34.3	0.5	<.1	<.5
R06-04	29.00	31.00	2.00	4072	119.1	0.4	<.1	2.9
R06-04	31.00	33.00	2.00	4073	18.2	0.1	<.1	0.5
R06-04	33.00	35.00	2.00	4074	44.4	0.4	<.1	<.5
R06-04	35.00	37.00	2.00	4075	3361.0	0.3	3.9	1.4
R06-04	37.00	39.00	2.00	4078	397.5	0.5	0.5	<.5
R06-04	39.00	41.00	2.00	4079	2655.5	0.6	3.7	0.7
R06-04	41.00	43.00	2.00	4080	771.6	0.2	1.1	0.6
R06-04	43.00	45.00	2.00	4081	976.6	0.5	0.8	2.4
R06-04	45.00	47.00	2.00	4082	193.3	0.1	0.3	0.9
R06-04	47.00	49.00	2.00	4083	396.1	0.4	0.5	1.2
R06-04	49.00	51.00	2.00	4084	108.1	0.1	0.2	<.5
R06-04	51.00	53.00	2.00	4085	283.1	0.6	0.3	1.6
R06-04	53.00	55.00	2.00	4086	123.3	0.2	0.1	<.5
R06-04	55.00	57.00	2.00	4087	129.5	0.5	0.2	<.5
R06-04	57.00	59.00	2.00	4088	18.3	0.1	<.1	<.5
R06-04	59.00	61.00	2.00	4089	338.6	0.5	0.6	<.5
R06-04	61.00	63.00	2.00	4090	6.4	0.2	<.1	0.7
R06-04	63.00	65.00	2.00	4091	1218.5	0.5	1.4	<.5
R06-04	65.00	67.00	2.00	4092	187.5	0.2	0.3	<.5
R06-04	67.00	69.00	2.00	4093	15.8	0.4	<.1	<.5
R06-04	69.00	71.00	2.00	4094	192.5	0.2	0.2	<.5
R06-04	71.00	73.00	2.00	4095	48.2	0.4	<.1	<.5

Table 2
2006 Diamond Drill Hole Assays

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-04	73.00	75.00	2.00	4096	701.2	0.3	0.9	0.9
R06-04	75.00	77.00	2.00	4097	178.9	0.5	0.2	0.7
R06-04	77.00	79.00	2.00	4098	89.2	0.2	0.1	<.5
R06-04	79.00	81.00	2.00	4099	57.1	0.5	<.1	<.5
R06-04	81.00	83.00	2.00	4100	442.9	0.2	0.6	0.9
R06-04	83.00	85.00	2.00	4103	571.8	0.5	0.9	1.0
R06-04	85.00	87.00	2.00	4104	685.1	0.6	1.1	1.7
R06-04	87.00	89.00	2.00	4105	318.9	0.2	0.7	0.8
R06-04	89.00	91.00	2.00	4106	104.2	0.2	0.2	<.5
R06-04	91.00	93.00	2.00	4107	103.4	0.5	0.1	0.5
R06-04	93.00	95.00	2.00	4108	18.5	0.2	<.1	<.5
R06-04	95.00	97.00	2.00	4109	157.6	0.5	0.3	0.9
R06-04	97.00	99.00	2.00	4110	81.3	0.3	0.2	15.9
R06-04	99.00	101.00	2.00	4111	37.3	0.8	<.1	2.3
R06-04	101.00	103.00	2.00	4112	28.6	0.3	<.1	<.5
R06-04	103.00	105.00	2.00	4113	90.2	1.0	0.2	<.5
R06-04	105.00	107.00	2.00	4114	43.4	0.1	<.1	<.5
R06-04	107.00	109.00	2.00	4115	1582.2	0.9	3.3	4.1
R06-04	109.00	111.00	2.00	4116	300.3	0.3	1.0	<.5
R06-04	111.00	113.00	2.00	4117	388.7	0.5	1.1	<.5
R06-04	113.00	115.00	2.00	4118	14.3	0.2	<.1	<.5
R06-04	115.00	117.00	2.00	4119	43.2	0.2	<.1	<.5
R06-04	117.00	119.00	2.00	4120	29.2	0.7	<.1	<.5
R06-04	119.00	121.00	2.00	4121	462.1	0.3	0.8	<.5
R06-04	121.00	123.00	2.00	4122	68.3	0.7	<.1	<.5
R06-04	123.00	125.00	2.00	4123	68.3	0.4	<.1	<.5
R06-04	125.00	127.00	2.00	4124	83.4	0.7	0.2	<.5
R06-04	127.00	129.00	2.00	4125	6.7	0.3	<.1	<.5
R06-04	129.00	131.00	2.00	4126	6.3	0.7	<.1	<.5
R06-04	131.00	133.00	2.00	4129	5.5	1.1	<.1	<.5
R06-04	133.00	135.00	2.00	4130	26.3	0.2	<.1	<.5
R06-04	135.00	137.00	2.00	4131	187.9	0.3	0.1	0.8
R06-04	137.00	139.00	2.00	4132	76.0	0.3	<.1	0.5
R06-04	139.00	141.00	2.00	4133	568.1	0.7	0.4	0.6
R06-04	141.00	142.40	1.40	4134	118.5	0.4	<.1	0.5
R06-05	18.29	22.00	3.71	4507	35.9	1.0	<.1	1.4
R06-05	22.00	24.00	2.00	4510	24.7	0.2	<.1	0.5
R06-05	26.00	28.00	2.00	4508	3.8	0.2	<.1	1.0
R06-05	32.00	34.00	2.00	4509	8.5	0.4	<.1	<.5
R06-05	34.00	38.50	4.50	4751	15.4	5.9	<.1	0.8
R06-05	38.50	40.00	1.50	4752	12.9	1.7	<.1	0.9
R06-05	40.00	44.00	4.00	4511	80.3	1.0	<.1	<.5
R06-05	44.00	47.00	3.00	4753	11.4	1.1	<.1	1.3
R06-05	47.00	50.00	3.00	4754	20.8	0.1	<.1	1.2
R06-05	50.00	52.00	2.00	4512	34.1	0.3	<.1	<.5
R06-05	52.00	56.00	4.00	4755	10.9	0.5	<.1	1.5
R06-05	56.00	58.00	2.00	4756	7.3	0.2	<.1	0.7
R06-05	58.00	60.00	2.00	4757	12.1	0.1	<.1	1.4

Table 2

2006 Diamond Drill Hole Assays

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-05	60.00	62.00	2.00	4758	9.9	0.5	<.1	0.9
R06-05	62.00	64.00	2.00	4513	9.8	0.2	<.1	<.5
R06-05	64.00	66.00	2.00	4759	12.5	0.2	<.1	1.1
R06-05	66.00	69.20	3.20	4760	13.7	0.4	<.1	0.9
R06-05	69.20	71.60	2.40	4761	11.1	0.2	<.1	1.5
R06-05	71.00	73.00	2.00	4514	6.3	0.6	<.1	1.2
R06-05	73.00	76.00	3.00	4762	67.5	0.7	<.1	<.5
R06-05	76.00	80.00	4.00	4515	62.9	1.2	<.1	<.5
R06-05	80.00	82.00	2.00	4516	139.7	2.3	<.1	<.5
R06-05	82.00	84.00	2.00	4517	23.8	0.3	<.1	<.5
R06-05	84.00	86.00	2.00	4518	209.9	0.2	<.1	<.5
R06-05	86.00	88.00	2.00	4519	100.0	0.9	<.1	<.5
R06-05	88.00	90.00	2.00	4520	27.3	0.2	<.1	<.5
R06-05	90.00	92.00	2.00	4521	98.3	0.4	<.1	<.5
R06-05	92.00	94.00	2.00	4522	220.1	4.5	0.1	<.5
R06-05	94.00	96.00	2.00	4523	241.9	0.6	<.1	<.5
R06-05	96.00	98.00	2.00	4524	979.8	1.7	0.2	<.5
R06-05	98.00	99.00	1.00	4525	1086.1	3.1	0.2	<.5
R06-05	99.00	100.00	1.00	4526	1869.9	2.3	0.6	<.5
R06-05	100.00	102.00	2.00	4527	455.5	1.7	0.1	<.5
R06-05	102.00	104.00	2.00	4528	66.3	0.6	<.1	<.5
R06-05	104.00	106.00	2.00	4529	282.9	1.5	<.1	<.5
R06-05	106.00	108.00	2.00	4530	164.5	1.1	<.1	<.5
R06-05	108.00	110.00	2.00	4531	243.4	0.4	<.1	<.5
R06-05	110.00	112.00	2.00	4532	157.8	0.2	<.1	<.5
R06-05	112.00	114.00	2.00	4533	102.6	0.3	<.1	<.5
R06-05	114.00	116.00	2.00	4534	239.4	0.5	<.1	1.8
R06-05	116.00	118.00	2.00	4535	104.1	0.3	<.1	<.5
R06-05	118.00	120.00	2.00	4536	116.9	0.2	<.1	2.2
R06-05	120.00	122.00	2.00	4537	124.5	0.2	<.1	<.5
R06-05	122.00	124.00	2.00	4538	104.5	0.3	<.1	<.5
R06-05	124.00	126.00	2.00	4763	238.5	0.2	<.1	0.6
R06-05	126.00	128.70	2.70	4764	213.2	1.3	<.1	<.5
R06-05	128.70	129.30	0.60	4541	438.3	0.3	0.3	5.2
R06-06	23.47	24.00	0.53	4135	122.3	0.5	<.1	<.5
R06-06	24.00	26.00	2.00	4136	228.8	0.9	<.1	<.5
R06-06	26.00	28.00	2.00	4137	684.7	2.7	0.3	<.5
R06-06	28.00	30.00	2.00	4138	362.4	1.5	0.2	1.5
R06-06	30.00	32.00	2.00	4139	115.9	0.3	<.1	2.3
R06-06	32.00	34.00	2.00	4140	138.5	2.0	0.1	1.7
R06-06	34.00	36.00	2.00	4141	218.8	34.7	0.2	1.3
R06-06	36.00	38.00	2.00	4142	102.1	0.3	<.1	1.0
R06-06	38.00	40.00	2.00	4143	79.6	0.4	<.1	0.7
R06-06	40.00	42.00	2.00	4144	49.4	0.3	<.1	<.5
R06-06	42.00	44.00	2.00	4145	81.5	0.2	<.1	0.7
R06-06	44.00	46.00	2.00	4146	110.6	0.6	0.1	0.5
R06-06	46.00	48.00	2.00	4147	38.4	0.2	<.1	<.5

Table 2
2006 Diamond Drill Hole Assays

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-06	48.00	50.00	2.00	4148	40.9	0.4	<.1	1.7
R06-06	50.00	52.00	2.00	4149	34.8	0.2	<.1	<.5
R06-06	52.00	54.00	2.00	4150	48.4	0.4	<.1	<.5
R06-06	54.00	56.00	2.00	4151	48.0	0.4	<.1	<.5
R06-06	56.00	58.00	2.00	4154	147.1	0.2	0.1	<.5
R06-06	58.00	60.00	2.00	4155	33.4	0.4	<.1	1.7
R06-06	60.00	62.00	2.00	4156	58.3	0.2	<.1	1.7
R06-06	62.00	64.00	2.00	4157	155.9	0.8	0.1	1.9
R06-06	64.00	66.00	2.00	4158	6.9	0.9	<.1	0.9
R06-06	66.00	68.00	2.00	4159	22.7	3.4	<.1	1.1
R06-06	68.00	70.00	2.00	4160	11.9	1.4	<.1	<.5
R06-06	70.00	73.00	3.00	4161	21.9	1.0	<.1	0.8
R06-06	77.00	80.00	3.00	4162	31.2	0.5	<.1	<.5
R06-06	81.00	84.00	3.00	4163	103.9	0.4	<.1	0.6
R06-06	86.00	88.00	2.00	4164	6.2	0.4	<.1	1.0
R06-06	88.00	91.00	3.00	4165	44.3	0.1	<.1	2.1
R06-06	98.00	100.00	2.00	4166	10.2	0.5	<.1	<.5
R06-06	100.00	103.00	3.00	4167	25.2	0.2	<.1	<.5
R06-06	105.00	107.00	2.00	4168	2.5	0.3	<.1	<.5
R06-06	107.00	113.00	6.00	4169	14.4	0.1	<.1	<.5
R06-06	113.00	115.00	2.00	4170	4.5	0.5	<.1	<.5
R06-06	103.00	105.00	2.00	4171	3.2	0.1	<.1	<.5
R06-06	124.00	127.10	3.10	4172	9.8	0.4	<.1	<.5
R06-06	128.00	131.00	3.00	4174	6.1	0.4	<.1	<.5
R06-06	134.00	136.00	2.00	4175	15.3	0.3	<.1	0.9
R06-06	138.00	140.00	2.00	4176	34.5	0.2	<.1	<.5
R06-06	146.00	148.00	2.00	4177	311.9	0.4	0.2	<.5
R06-06	148.00	150.00	2.00	4178	1059.0	0.8	0.8	<.5
R06-06	156.00	158.00	2.00	4179	3.8	0.3	<.1	<.5
R06-06	162.00	164.00	2.00	4180	15.9	0.2	<.1	<.5
R06-06	166.00	169.00	3.00	4181	28.1	0.5	<.1	<.5
R06-06	170.00	173.80	3.80	4182	8.2	0.3	<.1	<.5
R06-06	58.00	60.00	2.00	4183	11.9	0.6	<.1	<.5
R06-06	60.00	62.00	2.00	4184	17.2	0.3	<.1	<.5
R06-06	150.00	152.00	2.00	4185	254.3	0.4	0.2	0.7
R06-06	152.00	154.00	2.00	4186	28.3	0.2	<.1	<.5
R06-06	154.00	156.00	2.00	4187	9.6	0.3	<.1	<.5
R06-06	169.00	170.00	1.00	4188	22.8	0.3	<.1	<.5
R06-06	73.00	77.00	4.00	4322	7.2	0.3	<.1	<.5
R06-06	80.00	81.00	1.00	4323	47.1	0.6	<.1	<.5
R06-06	84.00	86.00	2.00	4324	11.4	0.2	<.1	<.5
R06-06	91.00	94.50	3.50	4325	14.3	0.4	<.1	<.5
R06-06	94.50	98.00	3.50	4326	8.8	0.1	<.1	<.5
R06-06	115.00	118.00	3.00	4327	6.3	0.4	<.1	1.3
R06-06	118.00	121.00	3.00	4328	15.2	0.1	<.1	0.6
R06-06	121.00	124.00	3.00	4329	12.2	0.5	<.1	<.5
R06-06	127.10	128.00	0.90	4330	9.5	0.1	<.1	<.5
R06-06	131.00	134.00	3.00	4331	5.5	0.1	<.1	<.5
R06-06	136.00	138.00	2.00	4332	42.3	0.5	<.1	<.5

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-06	164.00	166.00	2.00	4333	17.2	0.2	<.1	1.6
R06-06	140.00	143.00	3.00	4334	34.7	1.0	<.1	1.1
R06-06	143.00	146.00	3.00	4335	29.3	0.5	<.1	1.0
R06-07	10.00	12.00	2.00	overburden	770.0			
R06-07	17.00	20.00	3.00	4542	9.2	0.3	<.1	<.5
R06-07	24.00	27.00	3.00	4543	4.2	0.2	<.1	0.5
R06-07	33.00	36.00	3.00	4544	14.4	0.5	<.1	0.8
R06-07	36.00	38.00	2.00	4545	27.8	0.3	<.1	0.7
R06-07	38.00	42.00	4.00	4546	37.4	0.5	<.1	0.7
R06-07	42.00	45.00	3.00	4547	23.9	0.3	<.1	0.5
R06-07	45.00	48.00	3.00	4548	139.4	0.5	0.1	1.5
R06-07	48.00	52.00	4.00	4549	4.0	0.7	<.1	0.6
R06-07	52.00	54.00	2.00	4550	8.6	0.8	<.1	0.6
R06-07	58.00	60.00	2.00	4564	2.8	0.8	<.1	<.5
R06-07	60.00	62.00	2.00	4565	13.4	0.7	<.1	0.6
R06-07	62.00	64.77	2.77	4566	18.8	0.5	<.1	<.5
R06-08	10.00	12.00	2.00	4189	735.4	0.3	0.5	<.5
R06-08	12.00	14.00	2.00	4190	91.5	0.2	<.1	<.5
R06-08	14.00	16.00	2.00	4191	522.0	1.0	0.4	<.5
R06-08	16.00	18.00	2.00	4192	405.6	0.7	0.3	<.5
R06-08	18.00	20.00	2.00	4193	305.8	1.8	0.3	<.5
R06-08	20.00	22.00	2.00	4194	334.1	0.3	0.2	<.5
R06-08	22.00	24.00	2.00	4195	545.1	0.6	0.4	<.5
R06-08	24.00	26.00	2.00	4196	293.9	0.2	0.2	<.5
R06-08	26.00	28.00	2.00	4197	2250.1	1.1	1.6	1.7
R06-08	28.00	30.00	2.00	4198	927.7	7.3	0.6	<.5
R06-08	30.00	32.00	2.00	4200	1359.9	8.6	0.8	<.5
R06-08	32.00	34.00	2.00	4201	1491.7	9.2	0.8	<.5
R06-08	34.00	36.00	2.00	4202	446.2	3.5	0.3	<.5
R06-08	36.00	38.00	2.00	4203	634.8	0.6	0.4	1.1
R06-08	38.00	40.00	2.00	4204	657.6	4.4	0.4	<.5
R06-08	40.00	42.00	2.00	4206	1141.1	3.1	1.2	<.5
R06-08	42.00	44.00	2.00	4207	1206.4	4.1	0.9	0.8
R06-08	44.00	46.00	2.00	4208	610.3	3.6	0.9	0.8
R06-08	46.00	48.00	2.00	4209	981.3	11.8	1.5	<.5
R06-08	48.00	50.00	2.00	4210	379.5	2.0	0.3	<.5
R06-08	50.00	52.00	2.00	4211	649.3	28.7	0.9	<.5
R06-08	52.00	54.00	2.00	4212	392.1	2.8	0.2	1.3
R06-08	54.00	56.00	2.00	4213	270.1	4.9	0.3	<.5
R06-08	56.00	58.00	2.00	4214	851.3	0.8	0.6	<.5
R06-08	58.00	60.00	2.00	4215	55.1	0.1	<.1	<.5
R06-08	60.00	62.00	2.00	4216	951.9	8.8	0.9	<.5
R06-08	62.00	64.00	2.00	4217	2559.7	18.2	3.4	1.1
R06-08	64.00	66.00	2.00	4218	433.7	2.4	0.6	<.5
R06-08	66.00	68.00	2.00	4219	1806.0	34.1	1.4	<.5
R06-08	68.00	70.00	2.00	4220	1824.8	18.0	1.4	<.5
R06-08	70.00	72.00	2.00	4221	1752.9	5.8	1.5	<.5

Table 2
2006 Diamond Drill Hole Assays

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-08	72.00	74.00	2.00	4222	2208.9	15.0	2.8	<.5
R06-08	74.00	76.00	2.00	4223	2974.3	7.7	2.9	<.5
R06-08	76.00	78.00	2.00	4224	1185.8	11.2	1.5	0.5
R06-08	78.00	80.00	2.00	4225	4895.3	12.0	7.2	1.2
R06-08	80.00	82.00	2.00	4226	2183.9	18.5	1.2	0.5
R06-08	82.00	84.00	2.00	4227	1260.6	0.4	1.4	<.5
R06-08	84.00	86.00	2.00	4228	358.7	1.7	0.3	<.5
R06-08	86.00	88.00	2.00	4229	1809.2	0.5	1.5	1.3
R06-08	88.00	90.00	2.00	4230	>10000	13.1	12.0	1.8
R06-08	90.00	92.00	2.00	4231	1216.3	14.7	0.8	0.9
R06-08	92.00	94.00	2.00	4232	2109.8	9.4	1.5	0.6
R06-08	94.00	96.00	2.00	4233	678.2	0.2	0.8	0.5
R06-08	96.00	98.00	2.00	4234	57.4	0.6	<.1	<.5
R06-08	98.00	100.00	2.00	4235	135.5	0.3	<.1	<.5
R06-08	100.00	102.00	2.00	4236	71.2	1.0	<.1	0.9
R06-08	102.00	104.00	2.00	4237	89.7	0.5	<.1	0.5
R06-08	104.00	106.00	2.00	4238	718.8	2.3	2.2	1.4
R06-08	106.00	108.00	2.00	4239	204.8	0.6	0.2	<.5
R06-08	108.00	110.00	2.00	4240	267.1	9.0	0.7	<.5
R06-08	110.00	112.00	2.00	4242	74.0	0.7	0.3	<.5
R06-08	112.00	114.00	2.00	4243	13.0	0.9	<.1	<.5
R06-08	114.00	116.00	2.00	4244	33.3	0.2	<.1	<.5
R06-08	116.00	118.00	2.00	4245	238.5	0.3	0.2	<.5
R06-08	118.00	120.00	2.00	4246	16.8	0.3	<.1	<.5
R06-08	120.00	122.00	2.00	4247	342.2	1.3	0.3	1.3
R06-08	122.00	124.00	2.00	4248	50.2	0.3	<.1	<.5
R06-08	124.00	126.00	2.00	4249	7.9	0.4	<.1	<.5
R06-08	128.00	130.00	2.00	4251	73.7	0.5	<.1	<.5
R06-08	130.00	132.00	2.00	4252	184.3	0.6	0.1	<.5
R06-08	132.00	134.00	2.00	4253	51.9	0.4	<.1	<.5
R06-08	134.00	136.00	2.00	4254	11.6	0.2	<.1	<.5
R06-08	136.00	138.00	2.00	4255	401.4	0.5	0.3	<.5
R06-08	138.00	140.00	2.00	4256	212.1	0.6	0.1	0.7
R06-08	140.00	142.00	2.00	4257	31.5	1.3	<.1	<.5
R06-08	142.00	144.00	2.00	4258	72.8	0.5	<.1	<.5
R06-08	144.00	146.00	2.00	4259	35.5	0.4	<.1	<.5
R06-08	146.00	148.00	2.00	4260	233.6	0.2	0.3	<.5
R06-08	148.00	150.00	2.00	4261	60.6	0.4	<.1	<.5
R06-08	150.00	152.00	2.00	4262	25.7	0.6	<.1	<.5
R06-08	152.00	155.20	3.20	4263	23.6	0.4	<.1	<.5
R06-08	155.20	158.20	3.00	4336	8.2	0.4	<.1	1.5
R06-08	158.20	161.30	3.10	4337	14.7	0.2	<.1	1.6
R06-08	161.30	164.30	3.00	4338	51.1	0.3	<.1	<.5
R06-08	164.30	167.40	3.10	4339	28.1	0.5	<.1	<.5
R06-08	167.40	170.40	3.00	4340	42.0	0.9	<.1	<.5
R06-08	170.40	173.50	3.10	4341	12.1	0.2	<.1	<.5
R06-08	173.50	176.50	3.00	4342	49.8	0.7	<.1	0.5
R06-08	176.50	179.60	3.10	4343	45.0	0.3	<.1	<.5

Table 2
2006 Diamond Drill Hole Assays

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-08	179.60	182.60	3.00	4344	256.6	1.6	0.3	<.5
R06-08	182.60	185.70	3.10	4345	235.4	1.5	0.3	<.5
R06-08	185.70	188.70	3.00	4346	65.9	1.8	<.1	0.9
R06-08	188.70	191.30	2.60	4347	123.2	1.6	<.1	<.5
R06-08	191.30	192.60	1.30	4348	149.6	0.3	0.1	<.5
R06-08	192.60	194.80	2.20	4349	45.1	2.4	<.1	<.5
R06-09	60.00	63.00	3.00	4569	21.3	0.3	<.1	0.5
R06-09	63.00	66.20	3.20	4570	13.3	0.8	<.1	0.5
R06-09	66.20	69.20	3.00	4571	29.7	0.3	<.1	1.9
R06-09	69.20	72.90	3.70	4572	24.3	0.5	<.1	1.1
R06-09	72.90	75.80	2.90	4573	31.5	0.2	<.1	1.9
R06-09	75.80	78.40	2.60	4574	36.4	0.7	<.1	0.8
R06-09	78.40	80.40	2.00	4575	34.4	0.4	<.1	1.0
R06-09	80.40	82.80	2.40	4576	35.0	0.6	<.1	1.5
R06-09	82.80	84.50	1.70	4577	75.6	0.8	<.1	1.5
R06-09	84.50	87.50	3.00	4578	241.5	3.1	0.2	1.0
R06-09	87.50	90.50	3.00	4579	48.7	0.9	<.1	<.5
R06-09	90.50	93.60	3.10	4580	52.5	1.2	<.1	<.5
R06-09	93.60	96.60	3.00	4581	42.2	2.3	<.1	<.5
R06-09	96.60	99.70	3.10	4582	39.8	2.2	<.1	<.5
R06-09	99.70	102.10	2.40	4583	196.8	2.1	0.1	2.2
R06-09	142.40	145.40	3.00	4584	114.7	0.2	<.1	0.5
R06-09	145.40	148.50	3.10	4585	152.3	0.7	0.2	1.2
R06-09	148.50	151.50	3.00	4586	195.0	1.5	0.1	<.5
R06-09	151.50	154.60	3.10	4587	213.5	0.7	0.2	<.5
R06-09	154.60	157.60	3.00	4588	148.5	0.2	0.1	<.5
R06-09	157.60	160.70	3.10	4589	169.8	0.6	0.2	<.5
R06-09	160.70	163.70	3.00	4590	102.2	0.2	<.1	<.5
R06-09	163.70	166.80	3.10	4591	37.0	0.6	<.1	<.5
R06-09	166.80	168.90	2.10	4592	52.5	0.1	<.1	<.5
R06-10	21.95	25.00	3.05	4264	63.7	0.2	<.1	<.5
R06-10	25.00	28.04	3.04	4265	81.3	0.4	0.1	<.5
R06-10	28.04	31.07	3.03	4266	25.2	0.3	<.1	0.6
R06-10	37.30	38.40	1.10	4267	22.2	0.3	<.1	<.5
R06-10	38.40	40.20	1.80	4268	8.0	0.8	<.1	<.5
R06-10	40.20	41.00	0.80	4269	115.0	1.5	<.1	1.0
R06-10	41.00	43.30	2.30	4270	7.1	1.1	<.1	<.5
R06-10	43.30	46.30	3.00	4271	21.0	1.5	<.1	<.5
R06-10	46.30	49.40	3.10	4272	28.1	0.5	<.1	0.5
R06-10	49.40	52.40	3.00	4273	145.8	0.4	<.1	2.1
R06-10	52.40	55.50	3.10	4274	111.6	0.4	<.1	2.2
R06-10	55.50	58.50	3.00	4275	104.4	0.5	<.1	0.9
R06-10	58.50	61.60	3.10	4276	79.8	0.5	<.1	1.8
R06-10	61.60	64.60	3.00	4277	89.6	0.4	<.1	1.0
R06-10	64.60	67.70	3.10	4278	90.3	0.3	<.1	1.3
R06-10	67.70	70.70	3.00	4279	539.2	0.4	0.3	1.7

2006 Diamond Drill Hole Assays

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-10	70.70	73.80	3.10	4280	95.1	1.4	<.1	1.1
R06-10	73.80	76.80	3.00	4281	46.1	0.3	<.1	<.5
R06-10	76.80	78.30	1.50	4282	68.1	0.4	<.1	1.7
R06-10	78.30	80.70	2.40	4283	195.4	0.7	<.1	1.4
R06-10	80.70	82.50	1.80	4284	30.6	0.5	<.1	2.4
R06-10	82.50	85.90	3.40	4285	26.7	0.3	<.1	1.9
R06-10	85.90	88.80	2.90	4286	150.0	0.1	<.1	3.2
R06-10	88.80	89.50	0.70	4287	91.7	0.5	<.1	1.9
R06-10	89.50	92.05	2.55	4288	627.9	0.3	0.3	15.0
R06-10	92.05	95.10	3.05	4289	140.1	0.4	<.1	1.8
R06-10	95.10	98.70	3.60	4290	99.7	0.2	<.1	2.8
R06-10	98.70	101.20	2.50	4291	83.7	0.5	0.5	2.5
R06-10	101.20	104.20	3.00	4292	202.6	0.4	0.2	0.8
R06-10	110.80	113.40	2.60	4293	368.4	0.6	0.2	1.3
R06-10	125.90	128.70	2.80	4294	68.1	0.3	<.1	0.8
R06-10	128.70	131.70	3.00	4295	252.9	2.3	0.1	1.7
R06-10	131.70	134.80	3.10	4296	1065.8	18.1	0.7	3.2
R06-10	134.80	137.80	3.00	4297	509.6	1.1	0.3	2.9
R06-10	142.00	143.86	1.86	4298	302.7	0.4	0.1	0.5
R06-10	143.86	146.20	2.34	4299	276.5	0.7	0.1	1.6
R06-10	146.20	149.90	3.70	4302	28.9	2.9	<.1	0.8
R06-10	149.90	153.00	3.10	4303	21.2	1.4	<.1	0.5
R06-10	153.00	156.10	3.10	4304	83.4	2.2	<.1	0.7
R06-10	156.10	159.10	3.00	4305	18.3	2.0	<.1	0.7
R06-10	159.10	162.20	3.10	4306	24.7	2.5	<.1	0.5
R06-10	162.20	164.90	2.70	4307	28.8	1.5	<.1	<.5
R06-10	164.90	165.90	1.00	4308	91.0	167.3	<.1	0.7
R06-10	165.90	168.30	2.40	4309	12.1	1.5	<.1	<.5
R06-10	168.30	171.30	3.00	4310	158.7	3.1	<.1	0.7
R06-10	171.30	174.40	3.10	4311	257.1	1.5	<.1	1.1
R06-10	174.40	177.40	3.00	4312	50.0	2.6	<.1	<.5
R06-10	177.40	180.50	3.10	4313	17.3	1.0	<.1	<.5
R06-10	180.50	183.50	3.00	4314	52.3	2.5	<.1	0.8
R06-10	183.50	186.50	3.00	4315	87.2	1.3	<.1	<.5
R06-10	186.50	189.60	3.10	4316	11.6	0.7	<.1	0.6
R06-10	189.60	192.70	3.10	4317	13.2	1.1	<.1	<.5
R06-10	192.70	195.70	3.00	4318	22.3	0.7	<.1	<.5
R06-10	195.70	198.80	3.10	4319	10.7	0.5	<.1	<.5
R06-10	207.90	211.00	3.10	4320	62.0	0.3	<.1	0.9
R06-10	211.00	214.00	3.00	4321	11.7	0.6	<.1	<.5
R06-11	8.20	11.30	3.10	4593	523.5	1.1	0.3	<.5
R06-11	11.30	14.30	3.00	4594	492.0	0.5	0.3	<.5
R06-11	14.30	17.40	3.10	4595	1328.9	0.6	0.8	<.5
R06-11	17.40	20.40	3.00	4596	201.9	0.1	0.1	<.5
R06-11	20.40	23.50	3.10	4597	626.1	0.3	0.4	3.0
R06-11	23.50	26.50	3.00	4598	451.7	0.5	0.3	1.0
R06-11	26.50	29.60	3.10	4599	511.8	0.5	0.3	0.9
R06-11	29.60	32.60	3.00	4600	396.7	0.6	0.4	0.9

Table 2
2006 Diamond Drill Hole Assays

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-11	32.60	38.30	5.70	4601	648.0	0.4	0.6	1.5
R06-11	38.30	39.30	1.00	4602	3799.5	1.6	2.3	1.2
R06-11	39.30	41.80	2.50	4603	378.7	0.3	0.4	<.5
R06-11	41.80	44.80	3.00	4606	828.4	0.3	1.1	0.7
R06-11	44.80	47.90	3.10	4607	1587.8	0.2	2.1	0.8
R06-11	47.90	50.90	3.00	4608	433.3	0.5	0.4	1.6
R06-11	50.90	54.00	3.10	4609	30.4	0.2	<.1	0.5
R06-11	54.00	57.00	3.00	4610	3698.6	0.5	3.8	0.5
R06-11	57.00	60.10	3.10	4611	1074.2	0.4	1.0	0.7
R06-11	60.10	63.10	3.00	4612	200.4	0.3	0.2	0.9
R06-11	63.10	66.20	3.10	4613	793.9	1.6	0.6	0.7
R06-11	66.20	69.20	3.00	4614	83.0	0.6	<.1	0.5
R06-11	69.20	72.30	3.10	4615	128.5	0.3	0.3	0.6
R06-11	72.30	75.30	3.00	4616	522.2	0.5	0.6	0.6
R06-11	75.30	78.40	3.10	4617	298.0	0.6	0.3	0.8
R06-11	78.40	81.40	3.00	4618	306.9	0.4	0.2	<.5
R06-11	81.40	84.50	3.10	4619	1682.5	0.3	1.6	<.5
R06-11	84.50	87.50	3.00	4620	54.0	0.2	<.1	<.5
R06-11	90.53	93.57	3.04	4621	29.2	0.3	<.1	1.4
R06-11	96.62	99.70	3.08	4622	173.0	0.3	0.1	<.5
R06-11	102.70	105.80	3.10	4623	608.4	0.3	0.4	1.1
R06-11	105.80	108.80	3.00	4624	753.5	0.3	0.7	1.2
R06-11	108.80	111.86	3.06	4625	59.5	0.2	<.1	<.5
R06-11	111.86	114.90	3.04	4626	203.4	0.3	0.2	<.5
R06-11	139.90	142.40	2.50	4627	66.9	0.3	<.1	<.5
R06-11	142.40	145.40	3.00	4628	50.9	0.3	<.1	<.5
R06-11	145.40	147.75	2.35	4629	34.1	0.2	<.1	<.5
R06-12	18.50	20.60	2.10	4765	17.7	3.1	<.1	<.5
R06-12	37.60	39.70	2.10	4766	2.7	0.7	<.1	0.7
R06-12	39.70	42.70	3.00	4767	2.8	0.7	<.1	<.5
R06-12	42.70	45.70	3.00	4768	2.2	0.9	<.1	<.5
R06-12	45.70	48.70	3.00	4769	3.3	0.5	<.1	<.5
R06-12	48.70	51.00	2.30	4770	1.5	9.9	<.1	1.0
R06-12	65.80	69.00	3.20	4771	8.3	0.3	<.1	<.5
R06-12	69.00	72.00	3.00	4772	1.9	0.5	<.1	<.5
R06-12	72.00	75.00	3.00	4773	1.5	0.7	<.1	<.5
R06-12	75.00	78.00	3.00	4774	55.6	0.6	<.1	<.5
R06-12	78.00	81.00	3.00	4775	5.1	0.4	<.1	<.5
R06-12	81.00	84.00	3.00	4776	5.2	0.8	<.1	<.5
R06-12	84.00	87.00	3.00	4777	10.0	0.3	<.1	<.5
R06-12	87.00	90.00	3.00	4778	6.9	0.8	<.1	<.5
R06-12	90.00	93.00	3.00	4779	14.3	0.5	<.1	<.5
R06-12	93.00	95.00	2.00	4780	13.9	0.5	<.1	<.5
R06-12	95.00	99.00	4.00	4781	5.7	0.4	<.1	<.5
R06-12	99.00	100.40	1.40	4782	45.1	0.7	<.1	<.5
R06-12	100.40	103.00	2.60	4783	87.2	0.3	<.1	<.5
R06-12	103.00	106.00	3.00	4784	24.9	0.6	<.1	<.5
R06-12	106.00	108.80	2.80	4785	17.6	0.3	<.1	<.5

Table 2
2006 Diamond Drill Hole Assays

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-12	108.80	111.90	3.10	4786	153.9	0.7	<.1	<.5
R06-12	111.90	114.90	3.00	4787	98.6	0.3	<.1	<.5
R06-12	114.90	118.00	3.10	4788	21.6	0.9	<.1	<.5
R06-12	118.00	121.00	3.00	4789	16.9	0.9	<.1	<.5
R06-12	121.00	124.10	3.10	4790	3.3	1.0	<.1	<.5
R06-12	124.10	127.10	3.00	4791	17.9	0.9	<.1	<.5
R06-12	127.10	130.20	3.10	4792	12.1	1.3	<.1	<.5
R06-12	130.20	133.20	3.00	4793	73.4	1.2	<.1	<.5
R06-12	133.20	136.30	3.10	4794	5.8	1.7	<.1	<.5
R06-12	136.30	139.30	3.00	4795	61.0	2.7	<.1	<.5
R06-12	139.30	142.40	3.10	4796	7.4	2.1	<.1	<.5
R06-12	142.40	145.40	3.00	4797	51.4	1.2	<.1	<.5
R06-12	145.40	148.50	3.10	4798	63.5	1.3	<.1	<.5
R06-12	148.50	151.50	3.00	4799	52.9	0.8	<.1	<.5
R06-12	151.50	154.60	3.10	4800	8.1	0.7	<.1	0.9
R06-12	154.60	157.60	3.00	4801	40.2	0.7	<.1	0.8
R06-12	157.60	160.70	3.10	4802	38.0	1.8	<.1	0.9
R06-12	160.70	163.70	3.00	4803	76.7	0.8	<.1	1.1
R06-12	163.70	166.80	3.10	4804	46.0	0.9	<.1	<.5
R06-12	166.80	169.80	3.00	4805	31.5	0.2	<.1	0.7
R06-12	169.80	172.90	3.10	4806	34.2	0.5	<.1	1.5
R06-13	31.40	32.40	1.00	4630	6.4	0.8	<.1	0.7
R06-13	54.00	57.00	3.00	4631	6.1	0.6	<.1	0.6
R06-13	57.00	60.00	3.00	4632	6.3	84.6	0.1	0.5
R06-13	60.00	63.10	3.10	4633	11.0	1.1	<.1	0.5
R06-13	63.10	66.10	3.00	4634	7.4	0.3	<.1	0.6
R06-13	66.10	69.20	3.10	4635	2.5	1.1	<.1	0.7
R06-13	69.20	72.20	3.00	4636	4.7	0.2	<.1	0.7
R06-13	72.20	75.30	3.10	4637	5.3	0.9	<.1	1.6
R06-13	75.30	78.30	3.00	4638	4.4	0.2	<.1	1.0
R06-13	78.30	81.40	3.10	4639	8.9	0.6	<.1	0.5
R06-13	81.40	84.40	3.00	4640	7.7	0.3	<.1	0.5
R06-13	84.40	87.50	3.10	4641	8.2	0.4	<.1	0.9
R06-13	87.50	90.50	3.00	4642	5.0	0.3	<.1	0.5
R06-13	90.50	93.60	3.10	4643	45.9	0.5	<.1	<.5
R06-13	93.60	96.60	3.00	4644	15.5	0.3	<.1	<.5
R06-13	96.60	99.70	3.10	4645	6.7	0.5	<.1	<.5
R06-13	99.70	102.70	3.00	4646	29.0	0.2	<.1	0.9
R06-13	102.70	105.80	3.10	4648	222.1	0.2	0.1	0.6
R06-13	105.80	108.80	3.00	4649	1052.7	0.5	0.7	2.6
R06-13	108.80	111.90	3.10	4650	144.6	0.2	0.2	0.7
R06-13	111.90	114.90	3.00	4651	63.6	0.7	<.1	0.8
R06-13	114.90	118.00	3.10	4652	136.8	1.0	0.1	0.9
R06-13	118.00	121.00	3.00	4653	34.5	0.4	<.1	0.8
R06-13	121.00	124.10	3.10	4654	35.4	0.7	<.1	1.3
R06-13	124.10	127.10	3.00	4655	97.2	0.3	<.1	2.3
R06-13	127.10	130.15	3.05	4657	86.1	0.5	<.1	0.7
R06-13	130.15	133.20	3.05	4658	89.9	0.3	<.1	0.7

Table 2
2006 Diamond Drill Hole Assays

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-13	133.20	136.25	3.05	4659	62.7	0.7	<.1	0.6
R06-13	136.25	139.30	3.05	4660	8.8	0.2	<.1	0.9
R06-13	139.30	142.34	3.04	4661	7.0	0.5	<.1	<.5
R06-13	142.34	145.40	3.06	4662	3.2	0.1	<.1	0.6
R06-13	145.40	148.44	3.04	4663	253.3	0.7	0.1	<.5
R06-13	148.44	151.50	3.06	4664	45.0	0.1	<.1	1.0
R06-13	151.50	154.50	3.00	4665	43.5	0.6	<.1	0.6
R06-13	154.50	157.60	3.10	4666	16.6	0.1	<.1	0.9
R06-13	157.60	160.60	3.00	4667	58.5	0.1	<.1	<.5
R06-13	160.60	163.70	3.10	4668	50.4	0.3	<.1	<.5
R06-13	163.70	166.70	3.00	4669	207.4	0.2	0.3	1.1
R06-13	166.70	169.80	3.10	4670	49.0	0.3	<.1	<.5
R06-13	169.80	172.80	3.00	4671	64.7	0.2	<.1	<.5
R06-13	172.80	175.90	3.10	4672	77.5	1.8	<.1	<.5
R06-13	175.90	179.00	3.10	4673	86.4	1.1	<.1	0.5
R06-13	179.00	181.97	2.97	4674	101.8	0.5	<.1	<.5
R06-13	181.97	185.00	3.03	4675	117.4	0.3	<.1	2.0
R06-13	185.00	188.06	3.06	4676	117.5	0.4	<.1	1.2
R06-13	188.06	191.10	3.04	4677	138.5	0.3	<.1	0.9
R06-13	191.10	194.16	3.06	4678	143.5	0.9	<.1	<.5
R06-13	194.16	197.20	3.04	4679	62.9	0.2	<.1	1.5
R06-13	197.20	200.25	3.05	4680	267.3	0.5	0.1	1.2
R06-13	200.25	203.30	3.05	4681	124.8	0.2	<.1	0.5
R06-14	12.20	14.30	2.10	4809	1170.9	1.0	1.0	0.7
R06-14	14.30	17.40	3.10	4810	413.8	0.2	0.3	1.1
R06-14	17.40	20.40	3.00	4811	541.9	0.4	0.3	0.7
R06-14	20.40	22.50	2.10	4812	461.6	0.2	0.8	<.5
R06-14	22.50	23.50	1.00	4813	>10000	1.5	>100	9.4
R06-14	23.50	26.50	3.00	4814	415.0	0.3	0.3	<.5
R06-14	26.50	29.60	3.10	4815	519.5	1.1	0.5	<.5
R06-14	29.60	32.60	3.00	4816	937.7	1.2	0.6	<.5
R06-14	32.60	35.70	3.10	4817	336.5	1.1	0.2	<.5
R06-14	35.70	38.70	3.00	4818	197.1	0.5	0.1	<.5
R06-14	38.70	41.80	3.10	4819	1261.4	2.8	1.0	<.5
R06-14	41.80	44.80	3.00	4820	577.5	1.2	0.5	<.5
R06-14	44.80	47.90	3.10	4821	1498.2	3.1	1.3	<.5
R06-14	47.90	50.90	3.00	4822	1438.5	20.3	1.5	<.5
R06-14	50.90	54.00	3.10	4823	661.6	6.9	0.9	0.7
R06-14	54.00	57.00	3.00	4824	624.6	1.9	0.7	0.6
R06-14	57.00	60.10	3.10	4825	578.4	0.4	0.6	<.5
R06-14	60.10	63.10	3.00	4826	381.6	1.0	0.3	<.5
R06-14	63.10	66.20	3.10	4827	356.2	0.7	0.2	0.6
R06-14	66.20	69.20	3.00	4828	1379.4	2.7	1.6	<.5
R06-14	69.20	72.30	3.10	4829	1228.1	2.8	0.8	<.5
R06-14	72.30	75.30	3.00	4830	1090.7	5.1	0.7	<.5
R06-14	75.30	78.40	3.10	4831	2220.1	9.6	1.9	0.5
R06-14	78.40	81.40	3.00	4832	1761.5	9.0	1.1	<.5
R06-14	81.40	84.50	3.10	4833	1434.6	4.8	1.5	<.5

2006 Diamond Drill Hole Assays

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-14	84.50	87.50	3.00	4834	2860.3	9.8	3.0	<.5
R06-14	87.50	90.50	3.00	4835	4264.4	1.9	6.0	<.5
R06-14	90.50	93.60	3.10	4836	819.8	2.0	0.5	0.9
R06-14	93.60	96.60	3.00	4837	237.6	0.3	0.2	<.5
R06-14	96.60	97.60	1.00	4838	2428.1	0.7	2.5	<.5
R06-14	97.60	100.60	3.00	4701	1042.1	4.6	0.8	<.5
R06-14	100.60	102.90	2.30	4702	1790.4	0.7	1.1	1.4
R06-14	102.90	106.20	3.30	4839	980.7	0.3	0.6	<.5
R06-14	106.20	109.20	3.00	4703	139.2	0.6	<.1	<.5
R06-14	109.20	111.90	2.70	4704	156.3	2.0	<.1	<.5
R06-14	111.90	114.90	3.00	4840	149.3	0.4	<.1	<.5
R06-14	114.90	117.90	3.00	4705	233.6	0.3	0.1	0.5
R06-14	117.90	120.50	2.60	4706	135.2	0.6	<.1	<.5
R06-14	120.50	122.00	1.50	4707	479.6	0.7	0.3	<.5
R06-14	122.00	124.10	2.10	4708	155.2	0.4	<.1	<.5
R06-14	124.10	127.10	3.00	4841	1666.6	0.8	1.0	<.5
R06-14	127.10	130.20	3.10	4842	271.5	0.2	0.2	<.5
R06-14	130.20	133.20	3.00	4843	259.0	0.8	0.2	<.5
R06-14	133.20	136.30	3.10	4844	484.3	10.6	0.3	<.5
R06-14	136.30	137.80	1.50	4845	314.7	2.0	0.2	<.5
R06-14	137.80	140.80	3.00	4709	241.9	1.2	0.1	0.6
R06-14	140.80	143.10	2.30	4710	186.9	0.5	0.1	<.5
R06-14	143.10	145.40	2.30	4846	556.9	0.2	0.3	<.5
R06-14	145.40	146.80	1.40	4847	383.8	0.7	0.2	<.5
R06-14	146.80	148.50	1.70	4711	174.2	0.6	<.1	<.5
R06-14	148.50	151.50	3.00	4712	13.8	0.4	<.1	<.5
R06-14	151.50	154.50	3.00	4713	74.9	0.5	<.1	<.5
R06-14	154.50	157.50	3.00	4714	75.2	1.2	<.1	<.5
R06-14	157.50	160.50	3.00	4715	387.2	1.5	0.2	<.5
R06-14	160.50	162.50	2.00	4716	782.2	0.4	0.5	<.5
R06-14	162.50	163.70	1.20	4717	402.8	1.0	0.3	<.5
R06-14	163.70	166.80	3.10	4848	105.0	0.4	<.1	<.5
R06-14	166.80	168.30	1.50	4718	21.9	0.3	<.1	<.5

Table 2
2006 Diamond Drill Hole Assays

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-01	20.43	23.48	3.05	4001	14.1	1.1	<.1	0.5
R06-01	26.52	29.57	3.05	4002	17.1	0.5	<.1	0.8
R06-01	32.62	35.67	3.05	4003	15.7	0.8	<.1	<.5
R06-01	41.77	44.82	3.05	4004	10.1	0.2	<.1	<.5
R06-01	50.91	53.96	3.05	4005	10.1	0.7	<.1	<.5
R06-01	60.06	63.11	3.05	4006	7.5	0.2	<.1	<.5
R06-01	69.21	70.73	1.52	4007	25.4	0.9	<.1	<.5
R06-01	81.40	84.45	3.05	4008	513.4	1.2	0.4	<.5
R06-01	85.98	87.50	1.52	4009	142.5	2.0	<.1	<.5
R06-01	87.50	89.02	1.52	4010	50.6	0.8	<.1	<.5
R06-01	89.02	90.55	1.52	4013	6.7	0.2	<.1	<.5
R06-01	92.07	93.60	1.52	4011	76.7	0.2	<.1	0.6
R06-01	93.60	95.12	1.52	4012	18.3	0.9	<.1	<.5
R06-01	105.79	108.84	3.05	4022	74.7	0.8	16.4	<.5
R06-01	113.41	116.46	3.05	4014	13.8	0.9	<.1	<.5
R06-01	117.99	119.51	1.52	4015	34.6	0.1	<.1	<.5
R06-01	133.23	136.28	3.05	4016	10.4	0.8	<.1	<.5
R06-01	143.90	146.95	3.05	4017	12.2	0.2	<.1	<.5
R06-01	146.95	148.48	1.52	4018	43.5	0.8	<.1	<.5
R06-01	154.57	157.62	3.05	4019	79.7	0.1	<.1	<.5
R06-01	162.20	163.72	1.52	4020	79.7	1.0	<.1	<.5
R06-01	163.72	166.77	3.05	4021	160.9	0.4	0.1	<.5
R06-01	166.77	168.29	1.52	4023	773.2	0.6	0.2	<.5
R06-01	168.29	169.82	1.52	4024	14.7	0.7	<.1	<.5
R06-01	175.91	178.96	3.05	4025	17.0	0.2	<.1	<.5
R06-01	185.06	188.11	3.05	4026	29.0	0.9	<.1	<.5
R06-01	192.68	194.21	1.52	4027	24.9	0.2	<.1	<.5
R06-01	194.21	197.26	3.05	4028	831.9	1.8	0.4	<.5
R06-01	197.26	200.30	3.05	4029	103.3	0.2	<.1	<.5
R06-01	206.40	209.45	3.05	4030	46.2	0.8	<.1	<.5
R06-01	221.65	224.70	3.05	4031	51.2	0.3	<.1	<.5
R06-01	227.74	229.27	1.52	4032	31.2	0.7	<.1	1.3
R06-01	233.84	236.89	3.05	4033	92.3	1.9	<.1	<.5
R06-01	242.99	244.51	1.52	4034	39.2	1.4	<.1	<.5
R06-01	252.13	255.18	3.05	4035	131.3	2.5	<.1	<.5
R06-01	261.28	264.33	3.05	4036	15.6	1.0	<.1	1.2
R06-02	18.00	19.00	1.00	4037	30.2	0.3	<.1	0.7
R06-02	27.00	28.00	1.00	4038	48.8	0.6	<.1	<.5
R06-02	30.00	31.00	1.00	4039	23.0	0.3	<.1	<.5
R06-02	37.00	38.00	1.00	4040	8.2	0.9	<.1	<.5
R06-02	43.00	45.00	2.00	4041	6.3	0.3	<.1	<.5
R06-02	51.00	52.00	1.00	4042	11.4	1.1	<.1	<.5
R06-02	54.00	57.00	3.00	4043	21.7	0.4	<.1	<.5
R06-02	58.00	59.00	1.00	4044	42.2	0.6	<.1	0.8
R06-02	66.00	69.00	3.00	4045	12.4	0.4	<.1	<.5
R06-02	71.00	73.00	2.00	4046	9.2	0.5	<.1	<.5
R06-02	81.00	82.00	1.00	4047	40.3	0.4	<.1	<.5
R06-02	97.00	99.67	2.67	4051	140.3	0.7	<.1	<.5
R06-02	105.00	106.00	1.00	4052	3.6	0.6	<.1	<.5

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-02	106.00	107.00	1.00	4053	5.5	0.5	<.1	<.5
R06-02	108.00	109.00	1.00	4054	11.2	1.4	<.1	<.5
R06-02	109.00	110.00	1.00	4055	8.0	0.2	<.1	<.5
R06-02	110.00	111.00	1.00	4056	6.5	0.6	<.1	<.5
R06-02	115.00	118.00	3.00	4057	2.3	0.7	<.1	<.5
R06-02	120.00	121.00	1.00	4058	6.0	0.2	<.1	<.5
R06-02	130.00	133.20	3.20	4059	4.3	0.4	<.1	<.5
R06-02	136.00	137.00	1.00	4060	7.7	0.3	<.1	<.5
R06-02	148.00	151.00	3.00	4061	6.1	0.5	<.1	<.5
R06-02	169.00	172.00	3.00	4062	4.1	0.3	<.1	<.5
R06-02	179.00	181.00	2.00	4063	3.5	0.5	<.1	<.5
R06-03	38.00	41.00	3.00	4501	35.7	0.7	<.1	<.5
R06-03	41.00	44.00	3.00	4502	108.1	0.5	<.1	<.5
R06-03	60.00	63.00	3.00	4503	78.0	0.5	<.1	1.7
R06-03	66.00	69.00	3.00	4504	92.0	0.4	<.1	1.3
R06-03	80.00	82.00	2.00	4505	16.1	0.5	<.1	<.5
R06-03	95.00	97.00	2.00	4506	11.7	0.3	<.1	<.5
R06-04	13.00	15.00	2.00	4064	133.1	0.4	0.2	<.5
R06-04	15.00	17.00	2.00	4065	90.8	0.7	0.2	<.5
R06-04	17.00	19.00	2.00	4066	99.4	0.3	0.1	<.5
R06-04	19.00	21.00	2.00	4067	181.4	0.8	0.2	<.5
R06-04	21.00	23.00	2.00	4068	204.8	0.1	0.3	1.0
R06-04	23.00	25.00	2.00	4069	459.9	0.6	0.7	0.7
R06-04	25.00	27.00	2.00	4070	44.9	0.2	<.1	0.7
R06-04	27.00	29.00	2.00	4071	34.3	0.5	<.1	<.5
R06-04	29.00	31.00	2.00	4072	119.1	0.4	<.1	2.9
R06-04	31.00	33.00	2.00	4073	18.2	0.1	<.1	0.5
R06-04	33.00	35.00	2.00	4074	44.4	0.4	<.1	<.5
R06-04	35.00	37.00	2.00	4075	3361.0	0.3	3.9	1.4
R06-04	37.00	39.00	2.00	4078	397.5	0.5	0.5	<.5
R06-04	39.00	41.00	2.00	4079	2655.5	0.6	3.7	0.7
R06-04	41.00	43.00	2.00	4080	771.6	0.2	1.1	0.6
R06-04	43.00	45.00	2.00	4081	976.6	0.5	0.8	2.4
R06-04	45.00	47.00	2.00	4082	193.3	0.1	0.3	0.9
R06-04	47.00	49.00	2.00	4083	396.1	0.4	0.5	1.2
R06-04	49.00	51.00	2.00	4084	108.1	0.1	0.2	<.5
R06-04	51.00	53.00	2.00	4085	283.1	0.6	0.3	1.6
R06-04	53.00	55.00	2.00	4086	123.3	0.2	0.1	<.5
R06-04	55.00	57.00	2.00	4087	129.5	0.5	0.2	<.5
R06-04	57.00	59.00	2.00	4088	18.3	0.1	<.1	<.5
R06-04	59.00	61.00	2.00	4089	338.6	0.5	0.6	<.5
R06-04	61.00	63.00	2.00	4090	6.4	0.2	<.1	0.7
R06-04	63.00	65.00	2.00	4091	1218.5	0.5	1.4	<.5
R06-04	65.00	67.00	2.00	4092	187.5	0.2	0.3	<.5
R06-04	67.00	69.00	2.00	4093	15.8	0.4	<.1	<.5
R06-04	69.00	71.00	2.00	4094	192.5	0.2	0.2	<.5
R06-04	71.00	73.00	2.00	4095	48.2	0.4	<.1	<.5

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-04	73.00	75.00	2.00	4096	701.2	0.3	0.9	0.9
R06-04	75.00	77.00	2.00	4097	178.9	0.5	0.2	0.7
R06-04	77.00	79.00	2.00	4098	89.2	0.2	0.1	<.5
R06-04	79.00	81.00	2.00	4099	57.1	0.5	<.1	<.5
R06-04	81.00	83.00	2.00	4100	442.9	0.2	0.6	0.9
R06-04	83.00	85.00	2.00	4103	571.8	0.5	0.9	1.0
R06-04	85.00	87.00	2.00	4104	685.1	0.6	1.1	1.7
R06-04	87.00	89.00	2.00	4105	318.9	0.2	0.7	0.8
R06-04	89.00	91.00	2.00	4106	104.2	0.2	0.2	<.5
R06-04	91.00	93.00	2.00	4107	103.4	0.5	0.1	0.5
R06-04	93.00	95.00	2.00	4108	18.5	0.2	<.1	<.5
R06-04	95.00	97.00	2.00	4109	157.6	0.5	0.3	0.9
R06-04	97.00	99.00	2.00	4110	81.3	0.3	0.2	15.9
R06-04	99.00	101.00	2.00	4111	37.3	0.8	<.1	2.3
R06-04	101.00	103.00	2.00	4112	28.6	0.3	<.1	<.5
R06-04	103.00	105.00	2.00	4113	90.2	1.0	0.2	<.5
R06-04	105.00	107.00	2.00	4114	43.4	0.1	<.1	<.5
R06-04	107.00	109.00	2.00	4115	1582.2	0.9	3.3	4.1
R06-04	109.00	111.00	2.00	4116	300.3	0.3	1.0	<.5
R06-04	111.00	113.00	2.00	4117	388.7	0.5	1.1	<.5
R06-04	113.00	115.00	2.00	4118	14.3	0.2	<.1	<.5
R06-04	115.00	117.00	2.00	4119	43.2	0.2	<.1	<.5
R06-04	117.00	119.00	2.00	4120	29.2	0.7	<.1	<.5
R06-04	119.00	121.00	2.00	4121	462.1	0.3	0.8	<.5
R06-04	121.00	123.00	2.00	4122	68.3	0.7	<.1	<.5
R06-04	123.00	125.00	2.00	4123	68.3	0.4	<.1	<.5
R06-04	125.00	127.00	2.00	4124	83.4	0.7	0.2	<.5
R06-04	127.00	129.00	2.00	4125	6.7	0.3	<.1	<.5
R06-04	129.00	131.00	2.00	4126	6.3	0.7	<.1	<.5
R06-04	131.00	133.00	2.00	4129	5.5	1.1	<.1	<.5
R06-04	133.00	135.00	2.00	4130	26.3	0.2	<.1	<.5
R06-04	135.00	137.00	2.00	4131	187.9	0.3	0.1	0.8
R06-04	137.00	139.00	2.00	4132	76.0	0.3	<.1	0.5
R06-04	139.00	141.00	2.00	4133	568.1	0.7	0.4	0.6
R06-04	141.00	142.40	1.40	4134	118.5	0.4	<.1	0.5
R06-05	18.29	22.00	3.71	4507	35.9	1.0	<.1	1.4
R06-05	22.00	24.00	2.00	4510	24.7	0.2	<.1	0.5
R06-05	26.00	28.00	2.00	4508	3.8	0.2	<.1	1.0
R06-05	32.00	34.00	2.00	4509	8.5	0.4	<.1	<.5
R06-05	34.00	38.50	4.50	4751	15.4	5.9	<.1	0.8
R06-05	38.50	40.00	1.50	4752	12.9	1.7	<.1	0.9
R06-05	40.00	44.00	4.00	4511	80.3	1.0	<.1	<.5
R06-05	44.00	47.00	3.00	4753	11.4	1.1	<.1	1.3
R06-05	47.00	50.00	3.00	4754	20.8	0.1	<.1	1.2
R06-05	50.00	52.00	2.00	4512	34.1	0.3	<.1	<.5
R06-05	52.00	56.00	4.00	4755	10.9	0.5	<.1	1.5
R06-05	56.00	58.00	2.00	4756	7.3	0.2	<.1	0.7
R06-05	58.00	60.00	2.00	4757	12.1	0.1	<.1	1.4

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-05	60.00	62.00	2.00	4758	9.9	0.5	<.1	0.9
R06-05	62.00	64.00	2.00	4513	9.8	0.2	<.1	<.5
R06-05	64.00	66.00	2.00	4759	12.5	0.2	<.1	1.1
R06-05	66.00	69.20	3.20	4760	13.7	0.4	<.1	0.9
R06-05	69.20	71.60	2.40	4761	11.1	0.2	<.1	1.5
R06-05	71.00	73.00	2.00	4514	6.3	0.6	<.1	1.2
R06-05	73.00	76.00	3.00	4762	67.5	0.7	<.1	<.5
R06-05	76.00	80.00	4.00	4515	62.9	1.2	<.1	<.5
R06-05	80.00	82.00	2.00	4516	139.7	2.3	<.1	<.5
R06-05	82.00	84.00	2.00	4517	23.8	0.3	<.1	<.5
R06-05	84.00	86.00	2.00	4518	209.9	0.2	<.1	<.5
R06-05	86.00	88.00	2.00	4519	100.0	0.9	<.1	<.5
R06-05	88.00	90.00	2.00	4520	27.3	0.2	<.1	<.5
R06-05	90.00	92.00	2.00	4521	98.3	0.4	<.1	<.5
R06-05	92.00	94.00	2.00	4522	220.1	4.5	0.1	<.5
R06-05	94.00	96.00	2.00	4523	241.9	0.6	<.1	<.5
R06-05	96.00	98.00	2.00	4524	979.8	1.7	0.2	<.5
R06-05	98.00	99.00	1.00	4525	1086.1	3.1	0.2	<.5
R06-05	99.00	100.00	1.00	4526	1869.9	2.3	0.6	<.5
R06-05	100.00	102.00	2.00	4527	455.5	1.7	0.1	<.5
R06-05	102.00	104.00	2.00	4528	66.3	0.6	<.1	<.5
R06-05	104.00	106.00	2.00	4529	282.9	1.5	<.1	<.5
R06-05	106.00	108.00	2.00	4530	164.5	1.1	<.1	<.5
R06-05	108.00	110.00	2.00	4531	243.4	0.4	<.1	<.5
R06-05	110.00	112.00	2.00	4532	157.8	0.2	<.1	<.5
R06-05	112.00	114.00	2.00	4533	102.6	0.3	<.1	<.5
R06-05	114.00	116.00	2.00	4534	239.4	0.5	<.1	1.8
R06-05	116.00	118.00	2.00	4535	104.1	0.3	<.1	<.5
R06-05	118.00	120.00	2.00	4536	116.9	0.2	<.1	2.2
R06-05	120.00	122.00	2.00	4537	124.5	0.2	<.1	<.5
R06-05	122.00	124.00	2.00	4538	104.5	0.3	<.1	<.5
R06-05	124.00	126.00	2.00	4763	238.5	0.2	<.1	0.6
R06-05	126.00	128.70	2.70	4764	213.2	1.3	<.1	<.5
R06-05	128.70	129.30	0.60	4541	438.3	0.3	0.3	5.2
R06-06	23.47	24.00	0.53	4135	122.3	0.5	<.1	<.5
R06-06	24.00	26.00	2.00	4136	228.8	0.9	<.1	<.5
R06-06	26.00	28.00	2.00	4137	684.7	2.7	0.3	<.5
R06-06	28.00	30.00	2.00	4138	362.4	1.5	0.2	1.5
R06-06	30.00	32.00	2.00	4139	115.9	0.3	<.1	2.3
R06-06	32.00	34.00	2.00	4140	138.5	2.0	0.1	1.7
R06-06	34.00	36.00	2.00	4141	218.8	34.7	0.2	1.3
R06-06	36.00	38.00	2.00	4142	102.1	0.3	<.1	1.0
R06-06	38.00	40.00	2.00	4143	79.6	0.4	<.1	0.7
R06-06	40.00	42.00	2.00	4144	49.4	0.3	<.1	<.5
R06-06	42.00	44.00	2.00	4145	81.5	0.2	<.1	0.7
R06-06	44.00	46.00	2.00	4146	110.6	0.6	0.1	0.5
R06-06	46.00	48.00	2.00	4147	38.4	0.2	<.1	<.5

Table 2
2006 Diamond Drill Hole Assays

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-06	48.00	50.00	2.00	4148	40.9	0.4	<.1	1.7
R06-06	50.00	52.00	2.00	4149	34.8	0.2	<.1	<.5
R06-06	52.00	54.00	2.00	4150	48.4	0.4	<.1	<.5
R06-06	54.00	56.00	2.00	4151	48.0	0.4	<.1	<.5
R06-06	56.00	58.00	2.00	4154	147.1	0.2	0.1	<.5
R06-06	58.00	60.00	2.00	4155	33.4	0.4	<.1	1.7
R06-06	60.00	62.00	2.00	4156	58.3	0.2	<.1	1.7
R06-06	62.00	64.00	2.00	4157	155.9	0.8	0.1	1.9
R06-06	64.00	66.00	2.00	4158	6.9	0.9	<.1	0.9
R06-06	66.00	68.00	2.00	4159	22.7	3.4	<.1	1.1
R06-06	68.00	70.00	2.00	4160	11.9	1.4	<.1	<.5
R06-06	70.00	73.00	3.00	4161	21.9	1.0	<.1	0.8
R06-06	77.00	80.00	3.00	4162	31.2	0.5	<.1	<.5
R06-06	81.00	84.00	3.00	4163	103.9	0.4	<.1	0.6
R06-06	86.00	88.00	2.00	4164	6.2	0.4	<.1	1.0
R06-06	88.00	91.00	3.00	4165	44.3	0.1	<.1	2.1
R06-06	98.00	100.00	2.00	4166	10.2	0.5	<.1	<.5
R06-06	100.00	103.00	3.00	4167	25.2	0.2	<.1	<.5
R06-06	105.00	107.00	2.00	4168	2.5	0.3	<.1	<.5
R06-06	107.00	113.00	6.00	4169	14.4	0.1	<.1	<.5
R06-06	113.00	115.00	2.00	4170	4.5	0.5	<.1	<.5
R06-06	103.00	105.00	2.00	4171	3.2	0.1	<.1	<.5
R06-06	124.00	127.10	3.10	4172	9.8	0.4	<.1	<.5
R06-06	128.00	131.00	3.00	4174	6.1	0.4	<.1	<.5
R06-06	134.00	136.00	2.00	4175	15.3	0.3	<.1	0.9
R06-06	138.00	140.00	2.00	4176	34.5	0.2	<.1	<.5
R06-06	146.00	148.00	2.00	4177	311.9	0.4	0.2	<.5
R06-06	148.00	150.00	2.00	4178	1059.0	0.8	0.8	<.5
R06-06	156.00	158.00	2.00	4179	3.8	0.3	<.1	<.5
R06-06	162.00	164.00	2.00	4180	15.9	0.2	<.1	<.5
R06-06	166.00	169.00	3.00	4181	28.1	0.5	<.1	<.5
R06-06	170.00	173.80	3.80	4182	8.2	0.3	<.1	<.5
R06-06	58.00	60.00	2.00	4183	11.9	0.6	<.1	<.5
R06-06	60.00	62.00	2.00	4184	17.2	0.3	<.1	<.5
R06-06	150.00	152.00	2.00	4185	254.3	0.4	0.2	0.7
R06-06	152.00	154.00	2.00	4186	28.3	0.2	<.1	<.5
R06-06	154.00	156.00	2.00	4187	9.6	0.3	<.1	<.5
R06-06	169.00	170.00	1.00	4188	22.8	0.3	<.1	<.5
R06-06	73.00	77.00	4.00	4322	7.2	0.3	<.1	<.5
R06-06	80.00	81.00	1.00	4323	47.1	0.6	<.1	<.5
R06-06	84.00	86.00	2.00	4324	11.4	0.2	<.1	<.5
R06-06	91.00	94.50	3.50	4325	14.3	0.4	<.1	<.5
R06-06	94.50	98.00	3.50	4326	8.8	0.1	<.1	<.5
R06-06	115.00	118.00	3.00	4327	6.3	0.4	<.1	1.3
R06-06	118.00	121.00	3.00	4328	15.2	0.1	<.1	0.6
R06-06	121.00	124.00	3.00	4329	12.2	0.5	<.1	<.5
R06-06	127.10	128.00	0.90	4330	9.5	0.1	<.1	<.5
R06-06	131.00	134.00	3.00	4331	5.5	0.1	<.1	<.5
R06-06	136.00	138.00	2.00	4332	42.3	0.5	<.1	<.5

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-06	164.00	166.00	2.00	4333	17.2	0.2	<.1	1.6
R06-06	140.00	143.00	3.00	4334	34.7	1.0	<.1	1.1
R06-06	143.00	146.00	3.00	4335	29.3	0.5	<.1	1.0
R06-07	10.00	12.00	2.00	overburden	770.0			
R06-07	17.00	20.00	3.00	4542	9.2	0.3	<.1	<.5
R06-07	24.00	27.00	3.00	4543	4.2	0.2	<.1	0.5
R06-07	33.00	36.00	3.00	4544	14.4	0.5	<.1	0.8
R06-07	36.00	38.00	2.00	4545	27.8	0.3	<.1	0.7
R06-07	38.00	42.00	4.00	4546	37.4	0.5	<.1	0.7
R06-07	42.00	45.00	3.00	4547	23.9	0.3	<.1	0.5
R06-07	45.00	48.00	3.00	4548	139.4	0.5	0.1	1.5
R06-07	48.00	52.00	4.00	4549	4.0	0.7	<.1	0.6
R06-07	52.00	54.00	2.00	4550	8.6	0.8	<.1	0.6
R06-07	58.00	60.00	2.00	4564	2.8	0.8	<.1	<.5
R06-07	60.00	62.00	2.00	4565	13.4	0.7	<.1	0.6
R06-07	62.00	64.77	2.77	4566	18.8	0.5	<.1	<.5
R06-08	10.00	12.00	2.00	4189	735.4	0.3	0.5	<.5
R06-08	12.00	14.00	2.00	4190	91.5	0.2	<.1	<.5
R06-08	14.00	16.00	2.00	4191	522.0	1.0	0.4	<.5
R06-08	16.00	18.00	2.00	4192	405.6	0.7	0.3	<.5
R06-08	18.00	20.00	2.00	4193	305.8	1.8	0.3	<.5
R06-08	20.00	22.00	2.00	4194	334.1	0.3	0.2	<.5
R06-08	22.00	24.00	2.00	4195	545.1	0.6	0.4	<.5
R06-08	24.00	26.00	2.00	4196	293.9	0.2	0.2	<.5
R06-08	26.00	28.00	2.00	4197	2250.1	1.1	1.6	1.7
R06-08	28.00	30.00	2.00	4198	927.7	7.3	0.6	<.5
R06-08	30.00	32.00	2.00	4200	1359.9	8.6	0.8	<.5
R06-08	32.00	34.00	2.00	4201	1491.7	9.2	0.8	<.5
R06-08	34.00	36.00	2.00	4202	446.2	3.5	0.3	<.5
R06-08	36.00	38.00	2.00	4203	634.8	0.6	0.4	1.1
R06-08	38.00	40.00	2.00	4204	657.6	4.4	0.4	<.5
R06-08	40.00	42.00	2.00	4206	1141.1	3.1	1.2	<.5
R06-08	42.00	44.00	2.00	4207	1206.4	4.1	0.9	0.8
R06-08	44.00	46.00	2.00	4208	610.3	3.6	0.9	0.8
R06-08	46.00	48.00	2.00	4209	981.3	11.8	1.5	<.5
R06-08	48.00	50.00	2.00	4210	379.5	2.0	0.3	<.5
R06-08	50.00	52.00	2.00	4211	649.3	28.7	0.9	<.5
R06-08	52.00	54.00	2.00	4212	392.1	2.8	0.2	1.3
R06-08	54.00	56.00	2.00	4213	270.1	4.9	0.3	<.5
R06-08	56.00	58.00	2.00	4214	851.3	0.8	0.6	<.5
R06-08	58.00	60.00	2.00	4215	55.1	0.1	<.1	<.5
R06-08	60.00	62.00	2.00	4216	951.9	8.8	0.9	<.5
R06-08	62.00	64.00	2.00	4217	2559.7	18.2	3.4	1.1
R06-08	64.00	66.00	2.00	4218	433.7	2.4	0.6	<.5
R06-08	66.00	68.00	2.00	4219	1806.0	34.1	1.4	<.5
R06-08	68.00	70.00	2.00	4220	1824.8	18.0	1.4	<.5
R06-08	70.00	72.00	2.00	4221	1752.9	5.8	1.5	<.5

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-08	72.00	74.00	2.00	4222	2208.9	15.0	2.8	<.5
R06-08	74.00	76.00	2.00	4223	2974.3	7.7	2.9	<.5
R06-08	76.00	78.00	2.00	4224	1185.8	11.2	1.5	0.5
R06-08	78.00	80.00	2.00	4225	4895.3	12.0	7.2	1.2
R06-08	80.00	82.00	2.00	4226	2183.9	18.5	1.2	0.5
R06-08	82.00	84.00	2.00	4227	1260.6	0.4	1.4	<.5
R06-08	84.00	86.00	2.00	4228	358.7	1.7	0.3	<.5
R06-08	86.00	88.00	2.00	4229	1809.2	0.5	1.5	1.3
R06-08	88.00	90.00	2.00	4230	>10000	13.1	12.0	1.8
R06-08	90.00	92.00	2.00	4231	1216.3	14.7	0.8	0.9
R06-08	92.00	94.00	2.00	4232	2109.8	9.4	1.5	0.6
R06-08	94.00	96.00	2.00	4233	678.2	0.2	0.8	0.5
R06-08	96.00	98.00	2.00	4234	57.4	0.6	<.1	<.5
R06-08	98.00	100.00	2.00	4235	135.5	0.3	<.1	<.5
R06-08	100.00	102.00	2.00	4236	71.2	1.0	<.1	0.9
R06-08	102.00	104.00	2.00	4237	89.7	0.5	<.1	0.5
R06-08	104.00	106.00	2.00	4238	718.8	2.3	2.2	1.4
R06-08	106.00	108.00	2.00	4239	204.8	0.6	0.2	<.5
R06-08	108.00	110.00	2.00	4240	267.1	9.0	0.7	<.5
R06-08	110.00	112.00	2.00	4242	74.0	0.7	0.3	<.5
R06-08	112.00	114.00	2.00	4243	13.0	0.9	<.1	<.5
R06-08	114.00	116.00	2.00	4244	33.3	0.2	<.1	<.5
R06-08	116.00	118.00	2.00	4245	238.5	0.3	0.2	<.5
R06-08	118.00	120.00	2.00	4246	16.8	0.3	<.1	<.5
R06-08	120.00	122.00	2.00	4247	342.2	1.3	0.3	1.3
R06-08	122.00	124.00	2.00	4248	50.2	0.3	<.1	<.5
R06-08	124.00	126.00	2.00	4249	7.9	0.4	<.1	<.5
R06-08	128.00	130.00	2.00	4251	73.7	0.5	<.1	<.5
R06-08	130.00	132.00	2.00	4252	184.3	0.6	0.1	<.5
R06-08	132.00	134.00	2.00	4253	51.9	0.4	<.1	<.5
R06-08	134.00	136.00	2.00	4254	11.6	0.2	<.1	<.5
R06-08	136.00	138.00	2.00	4255	401.4	0.5	0.3	<.5
R06-08	138.00	140.00	2.00	4256	212.1	0.6	0.1	0.7
R06-08	140.00	142.00	2.00	4257	31.5	1.3	<.1	<.5
R06-08	142.00	144.00	2.00	4258	72.8	0.5	<.1	<.5
R06-08	144.00	146.00	2.00	4259	35.5	0.4	<.1	<.5
R06-08	146.00	148.00	2.00	4260	233.6	0.2	0.3	<.5
R06-08	148.00	150.00	2.00	4261	60.6	0.4	<.1	<.5
R06-08	150.00	152.00	2.00	4262	25.7	0.6	<.1	<.5
R06-08	152.00	155.20	3.20	4263	23.6	0.4	<.1	<.5
R06-08	155.20	158.20	3.00	4336	8.2	0.4	<.1	1.5
R06-08	158.20	161.30	3.10	4337	14.7	0.2	<.1	1.6
R06-08	161.30	164.30	3.00	4338	51.1	0.3	<.1	<.5
R06-08	164.30	167.40	3.10	4339	28.1	0.5	<.1	<.5
R06-08	167.40	170.40	3.00	4340	42.0	0.9	<.1	<.5
R06-08	170.40	173.50	3.10	4341	12.1	0.2	<.1	<.5
R06-08	173.50	176.50	3.00	4342	49.8	0.7	<.1	0.5
R06-08	176.50	179.60	3.10	4343	45.0	0.3	<.1	<.5

Table 2
2006 Diamond Drill Hole Assays

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-08	179.60	182.60	3.00	4344	256.6	1.6	0.3	<.5
R06-08	182.60	185.70	3.10	4345	235.4	1.5	0.3	<.5
R06-08	185.70	188.70	3.00	4346	65.9	1.8	<.1	0.9
R06-08	188.70	191.30	2.60	4347	123.2	1.6	<.1	<.5
R06-08	191.30	192.60	1.30	4348	149.6	0.3	0.1	<.5
R06-08	192.60	194.80	2.20	4349	45.1	2.4	<.1	<.5
R06-09	60.00	63.00	3.00	4569	21.3	0.3	<.1	0.5
R06-09	63.00	66.20	3.20	4570	13.3	0.8	<.1	0.5
R06-09	66.20	69.20	3.00	4571	29.7	0.3	<.1	1.9
R06-09	69.20	72.90	3.70	4572	24.3	0.5	<.1	1.1
R06-09	72.90	75.80	2.90	4573	31.5	0.2	<.1	1.9
R06-09	75.80	78.40	2.60	4574	36.4	0.7	<.1	0.8
R06-09	78.40	80.40	2.00	4575	34.4	0.4	<.1	1.0
R06-09	80.40	82.80	2.40	4576	35.0	0.6	<.1	1.5
R06-09	82.80	84.50	1.70	4577	75.6	0.8	<.1	1.5
R06-09	84.50	87.50	3.00	4578	241.5	3.1	0.2	1.0
R06-09	87.50	90.50	3.00	4579	48.7	0.9	<.1	<.5
R06-09	90.50	93.60	3.10	4580	52.5	1.2	<.1	<.5
R06-09	93.60	96.60	3.00	4581	42.2	2.3	<.1	<.5
R06-09	96.60	99.70	3.10	4582	39.8	2.2	<.1	<.5
R06-09	99.70	102.10	2.40	4583	196.8	2.1	0.1	2.2
R06-09	142.40	145.40	3.00	4584	114.7	0.2	<.1	0.5
R06-09	145.40	148.50	3.10	4585	152.3	0.7	0.2	1.2
R06-09	148.50	151.50	3.00	4586	195.0	1.5	0.1	<.5
R06-09	151.50	154.60	3.10	4587	213.5	0.7	0.2	<.5
R06-09	154.60	157.60	3.00	4588	148.5	0.2	0.1	<.5
R06-09	157.60	160.70	3.10	4589	169.8	0.6	0.2	<.5
R06-09	160.70	163.70	3.00	4590	102.2	0.2	<.1	<.5
R06-09	163.70	166.80	3.10	4591	37.0	0.6	<.1	<.5
R06-09	166.80	168.90	2.10	4592	52.5	0.1	<.1	<.5
R06-10	21.95	25.00	3.05	4264	63.7	0.2	<.1	<.5
R06-10	25.00	28.04	3.04	4265	81.3	0.4	0.1	<.5
R06-10	28.04	31.07	3.03	4266	25.2	0.3	<.1	0.6
R06-10	37.30	38.40	1.10	4267	22.2	0.3	<.1	<.5
R06-10	38.40	40.20	1.80	4268	8.0	0.8	<.1	<.5
R06-10	40.20	41.00	0.80	4269	115.0	1.5	<.1	1.0
R06-10	41.00	43.30	2.30	4270	7.1	1.1	<.1	<.5
R06-10	43.30	46.30	3.00	4271	21.0	1.5	<.1	<.5
R06-10	46.30	49.40	3.10	4272	28.1	0.5	<.1	0.5
R06-10	49.40	52.40	3.00	4273	145.8	0.4	<.1	2.1
R06-10	52.40	55.50	3.10	4274	111.6	0.4	<.1	2.2
R06-10	55.50	58.50	3.00	4275	104.4	0.5	<.1	0.9
R06-10	58.50	61.60	3.10	4276	79.8	0.5	<.1	1.8
R06-10	61.60	64.60	3.00	4277	89.6	0.4	<.1	1.0
R06-10	64.60	67.70	3.10	4278	90.3	0.3	<.1	1.3
R06-10	67.70	70.70	3.00	4279	539.2	0.4	0.3	1.7

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-10	70.70	73.80	3.10	4280	95.1	1.4	<.1	1.1
R06-10	73.80	76.80	3.00	4281	46.1	0.3	<.1	<.5
R06-10	76.80	78.30	1.50	4282	68.1	0.4	<.1	1.7
R06-10	78.30	80.70	2.40	4283	195.4	0.7	<.1	1.4
R06-10	80.70	82.50	1.80	4284	30.6	0.5	<.1	2.4
R06-10	82.50	85.90	3.40	4285	26.7	0.3	<.1	1.9
R06-10	85.90	88.80	2.90	4286	150.0	0.1	<.1	3.2
R06-10	88.80	89.50	0.70	4287	91.7	0.5	<.1	1.9
R06-10	89.50	92.05	2.55	4288	627.9	0.3	0.3	15.0
R06-10	92.05	95.10	3.05	4289	140.1	0.4	<.1	1.8
R06-10	95.10	98.70	3.60	4290	99.7	0.2	<.1	2.8
R06-10	98.70	101.20	2.50	4291	83.7	0.5	0.5	2.5
R06-10	101.20	104.20	3.00	4292	202.6	0.4	0.2	0.8
R06-10	110.80	113.40	2.60	4293	368.4	0.6	0.2	1.3
R06-10	125.90	128.70	2.80	4294	68.1	0.3	<.1	0.8
R06-10	128.70	131.70	3.00	4295	252.9	2.3	0.1	1.7
R06-10	131.70	134.80	3.10	4296	1065.8	18.1	0.7	3.2
R06-10	134.80	137.80	3.00	4297	509.6	1.1	0.3	2.9
R06-10	142.00	143.86	1.86	4298	302.7	0.4	0.1	0.5
R06-10	143.86	146.20	2.34	4299	276.5	0.7	0.1	1.6
R06-10	146.20	149.90	3.70	4302	28.9	2.9	<.1	0.8
R06-10	149.90	153.00	3.10	4303	21.2	1.4	<.1	0.5
R06-10	153.00	156.10	3.10	4304	83.4	2.2	<.1	0.7
R06-10	156.10	159.10	3.00	4305	18.3	2.0	<.1	0.7
R06-10	159.10	162.20	3.10	4306	24.7	2.5	<.1	0.5
R06-10	162.20	164.90	2.70	4307	28.8	1.5	<.1	<.5
R06-10	164.90	165.90	1.00	4308	91.0	167.3	<.1	0.7
R06-10	165.90	168.30	2.40	4309	12.1	1.5	<.1	<.5
R06-10	168.30	171.30	3.00	4310	158.7	3.1	<.1	0.7
R06-10	171.30	174.40	3.10	4311	257.1	1.5	<.1	1.1
R06-10	174.40	177.40	3.00	4312	50.0	2.6	<.1	<.5
R06-10	177.40	180.50	3.10	4313	17.3	1.0	<.1	<.5
R06-10	180.50	183.50	3.00	4314	52.3	2.5	<.1	0.8
R06-10	183.50	186.50	3.00	4315	87.2	1.3	<.1	<.5
R06-10	186.50	189.60	3.10	4316	11.6	0.7	<.1	0.6
R06-10	189.60	192.70	3.10	4317	13.2	1.1	<.1	<.5
R06-10	192.70	195.70	3.00	4318	22.3	0.7	<.1	<.5
R06-10	195.70	198.80	3.10	4319	10.7	0.5	<.1	<.5
R06-10	207.90	211.00	3.10	4320	62.0	0.3	<.1	0.9
R06-10	211.00	214.00	3.00	4321	11.7	0.6	<.1	<.5
R06-11	8.20	11.30	3.10	4593	523.5	1.1	0.3	<.5
R06-11	11.30	14.30	3.00	4594	492.0	0.5	0.3	<.5
R06-11	14.30	17.40	3.10	4595	1328.9	0.6	0.8	<.5
R06-11	17.40	20.40	3.00	4596	201.9	0.1	0.1	<.5
R06-11	20.40	23.50	3.10	4597	626.1	0.3	0.4	3.0
R06-11	23.50	26.50	3.00	4598	451.7	0.5	0.3	1.0
R06-11	26.50	29.60	3.10	4599	511.8	0.5	0.3	0.9
R06-11	29.60	32.60	3.00	4600	396.7	0.6	0.4	0.9

Table 2
2006 Diamond Drill Hole Assays

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-11	32.60	38.30	5.70	4601	648.0	0.4	0.6	1.5
R06-11	38.30	39.30	1.00	4602	3799.5	1.6	2.3	1.2
R06-11	39.30	41.80	2.50	4603	378.7	0.3	0.4	<.5
R06-11	41.80	44.80	3.00	4606	828.4	0.3	1.1	0.7
R06-11	44.80	47.90	3.10	4607	1587.8	0.2	2.1	0.8
R06-11	47.90	50.90	3.00	4608	433.3	0.5	0.4	1.6
R06-11	50.90	54.00	3.10	4609	30.4	0.2	<.1	0.5
R06-11	54.00	57.00	3.00	4610	3698.6	0.5	3.8	0.5
R06-11	57.00	60.10	3.10	4611	1074.2	0.4	1.0	0.7
R06-11	60.10	63.10	3.00	4612	200.4	0.3	0.2	0.9
R06-11	63.10	66.20	3.10	4613	793.9	1.6	0.6	0.7
R06-11	66.20	69.20	3.00	4614	83.0	0.6	<.1	0.5
R06-11	69.20	72.30	3.10	4615	128.5	0.3	0.3	0.6
R06-11	72.30	75.30	3.00	4616	522.2	0.5	0.6	0.6
R06-11	75.30	78.40	3.10	4617	298.0	0.6	0.3	0.8
R06-11	78.40	81.40	3.00	4618	306.9	0.4	0.2	<.5
R06-11	81.40	84.50	3.10	4619	1682.5	0.3	1.6	<.5
R06-11	84.50	87.50	3.00	4620	54.0	0.2	<.1	<.5
R06-11	90.53	93.57	3.04	4621	29.2	0.3	<.1	1.4
R06-11	96.62	99.70	3.08	4622	173.0	0.3	0.1	<.5
R06-11	102.70	105.80	3.10	4623	608.4	0.3	0.4	1.1
R06-11	105.80	108.80	3.00	4624	753.5	0.3	0.7	1.2
R06-11	108.80	111.86	3.06	4625	59.5	0.2	<.1	<.5
R06-11	111.86	114.90	3.04	4626	203.4	0.3	0.2	<.5
R06-11	139.90	142.40	2.50	4627	66.9	0.3	<.1	<.5
R06-11	142.40	145.40	3.00	4628	50.9	0.3	<.1	<.5
R06-11	145.40	147.75	2.35	4629	34.1	0.2	<.1	<.5
R06-12	18.50	20.60	2.10	4765	17.7	3.1	<.1	<.5
R06-12	37.60	39.70	2.10	4766	2.7	0.7	<.1	0.7
R06-12	39.70	42.70	3.00	4767	2.8	0.7	<.1	<.5
R06-12	42.70	45.70	3.00	4768	2.2	0.9	<.1	<.5
R06-12	45.70	48.70	3.00	4769	3.3	0.5	<.1	<.5
R06-12	48.70	51.00	2.30	4770	1.5	9.9	<.1	1.0
R06-12	65.80	69.00	3.20	4771	8.3	0.3	<.1	<.5
R06-12	69.00	72.00	3.00	4772	1.9	0.5	<.1	<.5
R06-12	72.00	75.00	3.00	4773	1.5	0.7	<.1	<.5
R06-12	75.00	78.00	3.00	4774	55.6	0.6	<.1	<.5
R06-12	78.00	81.00	3.00	4775	5.1	0.4	<.1	<.5
R06-12	81.00	84.00	3.00	4776	5.2	0.8	<.1	<.5
R06-12	84.00	87.00	3.00	4777	10.0	0.3	<.1	<.5
R06-12	87.00	90.00	3.00	4778	6.9	0.8	<.1	<.5
R06-12	90.00	93.00	3.00	4779	14.3	0.5	<.1	<.5
R06-12	93.00	95.00	2.00	4780	13.9	0.5	<.1	<.5
R06-12	95.00	99.00	4.00	4781	5.7	0.4	<.1	<.5
R06-12	99.00	100.40	1.40	4782	45.1	0.7	<.1	<.5
R06-12	100.40	103.00	2.60	4783	87.2	0.3	<.1	<.5
R06-12	103.00	106.00	3.00	4784	24.9	0.6	<.1	<.5
R06-12	106.00	108.80	2.80	4785	17.6	0.3	<.1	<.5

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-12	108.80	111.90	3.10	4786	153.9	0.7	<.1	<.5
R06-12	111.90	114.90	3.00	4787	98.6	0.3	<.1	<.5
R06-12	114.90	118.00	3.10	4788	21.6	0.9	<.1	<.5
R06-12	118.00	121.00	3.00	4789	16.9	0.9	<.1	<.5
R06-12	121.00	124.10	3.10	4790	3.3	1.0	<.1	<.5
R06-12	124.10	127.10	3.00	4791	17.9	0.9	<.1	<.5
R06-12	127.10	130.20	3.10	4792	12.1	1.3	<.1	<.5
R06-12	130.20	133.20	3.00	4793	73.4	1.2	<.1	<.5
R06-12	133.20	136.30	3.10	4794	5.8	1.7	<.1	<.5
R06-12	136.30	139.30	3.00	4795	61.0	2.7	<.1	<.5
R06-12	139.30	142.40	3.10	4796	7.4	2.1	<.1	<.5
R06-12	142.40	145.40	3.00	4797	51.4	1.2	<.1	<.5
R06-12	145.40	148.50	3.10	4798	63.5	1.3	<.1	<.5
R06-12	148.50	151.50	3.00	4799	52.9	0.8	<.1	<.5
R06-12	151.50	154.60	3.10	4800	8.1	0.7	<.1	0.9
R06-12	154.60	157.60	3.00	4801	40.2	0.7	<.1	0.8
R06-12	157.60	160.70	3.10	4802	38.0	1.8	<.1	0.9
R06-12	160.70	163.70	3.00	4803	76.7	0.8	<.1	1.1
R06-12	163.70	166.80	3.10	4804	46.0	0.9	<.1	<.5
R06-12	166.80	169.80	3.00	4805	31.5	0.2	<.1	0.7
R06-12	169.80	172.90	3.10	4806	34.2	0.5	<.1	1.5
R06-13	31.40	32.40	1.00	4630	6.4	0.8	<.1	0.7
R06-13	54.00	57.00	3.00	4631	6.1	0.6	<.1	0.6
R06-13	57.00	60.00	3.00	4632	6.3	84.6	0.1	0.5
R06-13	60.00	63.10	3.10	4633	11.0	1.1	<.1	0.5
R06-13	63.10	66.10	3.00	4634	7.4	0.3	<.1	0.6
R06-13	66.10	69.20	3.10	4635	2.5	1.1	<.1	0.7
R06-13	69.20	72.20	3.00	4636	4.7	0.2	<.1	0.7
R06-13	72.20	75.30	3.10	4637	5.3	0.9	<.1	1.6
R06-13	75.30	78.30	3.00	4638	4.4	0.2	<.1	1.0
R06-13	78.30	81.40	3.10	4639	8.9	0.6	<.1	0.5
R06-13	81.40	84.40	3.00	4640	7.7	0.3	<.1	0.5
R06-13	84.40	87.50	3.10	4641	8.2	0.4	<.1	0.9
R06-13	87.50	90.50	3.00	4642	5.0	0.3	<.1	0.5
R06-13	90.50	93.60	3.10	4643	45.9	0.5	<.1	<.5
R06-13	93.60	96.60	3.00	4644	15.5	0.3	<.1	<.5
R06-13	96.60	99.70	3.10	4645	6.7	0.5	<.1	<.5
R06-13	99.70	102.70	3.00	4646	29.0	0.2	<.1	0.9
R06-13	102.70	105.80	3.10	4648	222.1	0.2	0.1	0.6
R06-13	105.80	108.80	3.00	4649	1052.7	0.5	0.7	2.6
R06-13	108.80	111.90	3.10	4650	144.6	0.2	0.2	0.7
R06-13	111.90	114.90	3.00	4651	63.6	0.7	<.1	0.8
R06-13	114.90	118.00	3.10	4652	136.8	1.0	0.1	0.9
R06-13	118.00	121.00	3.00	4653	34.5	0.4	<.1	0.8
R06-13	121.00	124.10	3.10	4654	35.4	0.7	<.1	1.3
R06-13	124.10	127.10	3.00	4655	97.2	0.3	<.1	2.3
R06-13	127.10	130.15	3.05	4657	86.1	0.5	<.1	0.7
R06-13	130.15	133.20	3.05	4658	89.9	0.3	<.1	0.7

Table 2
2006 Diamond Drill Hole Assays

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-13	133.20	136.25	3.05	4659	62.7	0.7	<.1	0.6
R06-13	136.25	139.30	3.05	4660	8.8	0.2	<.1	0.9
R06-13	139.30	142.34	3.04	4661	7.0	0.5	<.1	<.5
R06-13	142.34	145.40	3.06	4662	3.2	0.1	<.1	0.6
R06-13	145.40	148.44	3.04	4663	253.3	0.7	0.1	<.5
R06-13	148.44	151.50	3.06	4664	45.0	0.1	<.1	1.0
R06-13	151.50	154.50	3.00	4665	43.5	0.6	<.1	0.6
R06-13	154.50	157.60	3.10	4666	16.6	0.1	<.1	0.9
R06-13	157.60	160.60	3.00	4667	58.5	0.1	<.1	<.5
R06-13	160.60	163.70	3.10	4668	50.4	0.3	<.1	<.5
R06-13	163.70	166.70	3.00	4669	207.4	0.2	0.3	1.1
R06-13	166.70	169.80	3.10	4670	49.0	0.3	<.1	<.5
R06-13	169.80	172.80	3.00	4671	64.7	0.2	<.1	<.5
R06-13	172.80	175.90	3.10	4672	77.5	1.8	<.1	<.5
R06-13	175.90	179.00	3.10	4673	86.4	1.1	<.1	0.5
R06-13	179.00	181.97	2.97	4674	101.8	0.5	<.1	<.5
R06-13	181.97	185.00	3.03	4675	117.4	0.3	<.1	2.0
R06-13	185.00	188.06	3.06	4676	117.5	0.4	<.1	1.2
R06-13	188.06	191.10	3.04	4677	138.5	0.3	<.1	0.9
R06-13	191.10	194.16	3.06	4678	143.5	0.9	<.1	<.5
R06-13	194.16	197.20	3.04	4679	62.9	0.2	<.1	1.5
R06-13	197.20	200.25	3.05	4680	267.3	0.5	0.1	1.2
R06-13	200.25	203.30	3.05	4681	124.8	0.2	<.1	0.5
R06-14	12.20	14.30	2.10	4809	1170.9	1.0	1.0	0.7
R06-14	14.30	17.40	3.10	4810	413.8	0.2	0.3	1.1
R06-14	17.40	20.40	3.00	4811	541.9	0.4	0.3	0.7
R06-14	20.40	22.50	2.10	4812	461.6	0.2	0.8	<.5
R06-14	22.50	23.50	1.00	4813	>10000	1.5	>100	9.4
R06-14	23.50	26.50	3.00	4814	415.0	0.3	0.3	<.5
R06-14	26.50	29.60	3.10	4815	519.5	1.1	0.5	<.5
R06-14	29.60	32.60	3.00	4816	937.7	1.2	0.6	<.5
R06-14	32.60	35.70	3.10	4817	336.5	1.1	0.2	<.5
R06-14	35.70	38.70	3.00	4818	197.1	0.5	0.1	<.5
R06-14	38.70	41.80	3.10	4819	1261.4	2.8	1.0	<.5
R06-14	41.80	44.80	3.00	4820	577.5	1.2	0.5	<.5
R06-14	44.80	47.90	3.10	4821	1498.2	3.1	1.3	<.5
R06-14	47.90	50.90	3.00	4822	1438.5	20.3	1.5	<.5
R06-14	50.90	54.00	3.10	4823	661.6	6.9	0.9	0.7
R06-14	54.00	57.00	3.00	4824	624.6	1.9	0.7	0.6
R06-14	57.00	60.10	3.10	4825	578.4	0.4	0.6	<.5
R06-14	60.10	63.10	3.00	4826	381.6	1.0	0.3	<.5
R06-14	63.10	66.20	3.10	4827	356.2	0.7	0.2	0.6
R06-14	66.20	69.20	3.00	4828	1379.4	2.7	1.6	<.5
R06-14	69.20	72.30	3.10	4829	1228.1	2.8	0.8	<.5
R06-14	72.30	75.30	3.00	4830	1090.7	5.1	0.7	<.5
R06-14	75.30	78.40	3.10	4831	2220.1	9.6	1.9	0.5
R06-14	78.40	81.40	3.00	4832	1761.5	9.0	1.1	<.5
R06-14	81.40	84.50	3.10	4833	1434.6	4.8	1.5	<.5

2006 Diamond Drill Hole Assays

DDH	From (m)	To(m)	Width (m)	SAMPLE No #	Cu ppm	Mo ppm	Ag ppm	Au ppb
R06-14	84.50	87.50	3.00	4834	2860.3	9.8	3.0	<.5
R06-14	87.50	90.50	3.00	4835	4264.4	1.9	6.0	<.5
R06-14	90.50	93.60	3.10	4836	819.8	2.0	0.5	0.9
R06-14	93.60	96.60	3.00	4837	237.6	0.3	0.2	<.5
R06-14	96.60	97.60	1.00	4838	2428.1	0.7	2.5	<.5
R06-14	97.60	100.60	3.00	4701	1042.1	4.6	0.8	<.5
R06-14	100.60	102.90	2.30	4702	1790.4	0.7	1.1	1.4
R06-14	102.90	106.20	3.30	4839	980.7	0.3	0.6	<.5
R06-14	106.20	109.20	3.00	4703	139.2	0.6	<.1	<.5
R06-14	109.20	111.90	2.70	4704	156.3	2.0	<.1	<.5
R06-14	111.90	114.90	3.00	4840	149.3	0.4	<.1	<.5
R06-14	114.90	117.90	3.00	4705	233.6	0.3	0.1	0.5
R06-14	117.90	120.50	2.60	4706	135.2	0.6	<.1	<.5
R06-14	120.50	122.00	1.50	4707	479.6	0.7	0.3	<.5
R06-14	122.00	124.10	2.10	4708	155.2	0.4	<.1	<.5
R06-14	124.10	127.10	3.00	4841	1666.6	0.8	1.0	<.5
R06-14	127.10	130.20	3.10	4842	271.5	0.2	0.2	<.5
R06-14	130.20	133.20	3.00	4843	259.0	0.8	0.2	<.5
R06-14	133.20	136.30	3.10	4844	484.3	10.6	0.3	<.5
R06-14	136.30	137.80	1.50	4845	314.7	2.0	0.2	<.5
R06-14	137.80	140.80	3.00	4709	241.9	1.2	0.1	0.6
R06-14	140.80	143.10	2.30	4710	186.9	0.5	0.1	<.5
R06-14	143.10	145.40	2.30	4846	556.9	0.2	0.3	<.5
R06-14	145.40	146.80	1.40	4847	383.8	0.7	0.2	<.5
R06-14	146.80	148.50	1.70	4711	174.2	0.6	<.1	<.5
R06-14	148.50	151.50	3.00	4712	13.8	0.4	<.1	<.5
R06-14	151.50	154.50	3.00	4713	74.9	0.5	<.1	<.5
R06-14	154.50	157.50	3.00	4714	75.2	1.2	<.1	<.5
R06-14	157.50	160.50	3.00	4715	387.2	1.5	0.2	<.5
R06-14	160.50	162.50	2.00	4716	782.2	0.4	0.5	<.5
R06-14	162.50	163.70	1.20	4717	402.8	1.0	0.3	<.5
R06-14	163.70	166.80	3.10	4848	105.0	0.4	<.1	<.5
R06-14	166.80	168.30	1.50	4718	21.9	0.3	<.1	<.5

Appendix 1

Drill Core Logs

Drill Core Recovery Logs

Rateria Property 2006

Core Log Coding Description

Mineralization	bo	bornite		
	cpy	chalcopyrite	v = % in vein	
	cc	chalcocite	d = % disseminated	
	mal	malachite	.1 = trace	
	py	pyrite	Note:	
	mag	magnatite	Mineralization % is per sample interval.	
	mo	molybdenite		
	spec	specular hematite		
Alteration		***Assemblage***		
	L1	Silicic	qtz+/-sx;w/haloes of ser/musc, fspar w/plag	
	L2	Potassic (inc. hydro bio)	kspar; after ser. plag, musc; secondary bio	
	L3	Phyllic (vein sericitic)	musc-ser in qtz veins; selvages; fract fill	
	L4	Argillic	perv. kaol. + ser.; w/qtz, calc.	
	L5	Propylitic	chlor, epid, carb,+/- py, spec.	
	L6	Hematitic	Fe oxidation: hematite	
		Extent	***Intensity***	
	1	Confined to fractures/veins (local)	1	subtle
	2	In and around fractures/veins	2	weak
	3	Penetrated into rock,but some of rock remains unaltered (patchy)	3	moderate
			4	strong
	4	All of the rock is altered, but fabric remains (pervasive)	5	intense
	5	Fabric is obliterated by alteration (ubiquitous)		
Veining		***Assemblage***		
	V1	Quartz	vein/m	
	V2	Carbonate	47.6mm=diameter of NQ core	
	V3	Gypsum		
Fracturing		***Intensity***		
	0	none		
	1	weak	1 fracture per meter	
	2	moderate	2-6 fractures per meter	
	3	strong	~1 fracture per 10cm	
	4	intense	> 1 fracture per cm	
	5	jigsaw breccia		
	6	rotated breccia		
	7	chaotic breccia		
Structures	Ft	Fault angle to core axis	Fr1	Primary fracture angle to core axis
	Sl	Slickenside angle on fault/shear pla	Fr2	Secondary fracture angle to core axis
	CU	Upper contact angle to core axis	Fr3	Tertiary fracture angle to core axis
	CL	Lower contact angle to core axis		
	V1	Primary vein angle to core axis		
	V2	Secondary vein angle to core axis		
	V3	Tertiary vein angle to core axis		

Drill Hole Locations
Appendix 1

Hole ID	Easting (M)	Northing (M)	Elev (M)	Distance (M)	From (M)	To (M)	Azimuth	Dip
R06-01	645337	5582440	1565	273.4	0	273.4	0	-90
R06-02	645320	5582460	1565	187.45	0	187.45	300	-45
R06-03	645485.5	5582674	1575	99.67	0	99.67	0	-90
R06-04	645805	5582457	1570	142.4	0	142.4	0	-90
R06-05	645945	5582462	1570	129.9	0	129.9	0	-90
R06-06	645650	5582250	1565	173.8	0	173.8	135	-50
R06-07	646180	5582478	1568	108.2	0	108.2	0	-90
R06-08	645810	5582620	1570	204	0	204	0	-90
R06-09	645952	5582763	1570	168.9	0	168.9	0	-90
R06-10	646840	5582488	1515	216.5	0	216.5	0	-90
R06-11	645840	5582284	1568	147.75	0	147.75	0	-90
R06-12	646455	5582705	1540	175.9	0	175.9	0	-90
R06-13	646345	5582480	1550	203.3	0	203.3	0	-90
R06-14	645810	5582615	1574	168.3	0	168.3	0	-47
				2399.47	Metres			

From (m)	To (m)	Description	Lith	Mineralization cpy-v	mag-d	mag-v	Alteration L1 Qtz	L2 K-fed	L3-ser	L4 Arg	L5 Chl-ep	L6 Hem	Structural Angles CL	V1	V2	V3
0.00	12.20	Overburden; no recovery	ob													
12.20	14.33	Rubble	rb				42									
14.33	15.85	Quartz diorite;minor kaolinite in fractures and pervasive weak chlorite after bio and hornblende; weak pervasive silicification	qd				42			12	41					
15.85	17.38	Same as above	qd				42				41					
17.38	18.90	Minor fe staining and qtz veining; 2.5 inch kaolinite seam @	qd				42,11				41,12					
18.90	20.43	Minor kaolinite, fe staining	qd				42				41,11					
20.43	21.95	Same as above	qd				42				41					
21.95	23.48	At 76 ft: minor quartz fracture fill;76 to 81 ft:kspar, chloritic, kaolinite altertn, envelope to gouge(kspar only at lower contact) ; minor dissem mag.	qd		0.1		42,11		23	23	41,23					
23.48	25.00	Minor perv. chloritic and silicic altered qd	qd				42				41					
25.00	26.52	Same as above	qd				42				41					
26.52	28.05	Same as above	qd				42				41					
28.05	29.57	At 94ft: 10 in chloritic alteration associated w/ approx. 1cm qtz veinlet. Core broken	qd				42				24					
29.57	30.00	Same as above	qd				42				41					
30.00	33.84	Chloritized zone: locally intense zones of chloritization, favouring fspars. At 110ft 2/3 inch qtz-mag vein 45 deg to CA	qd			0.1	42				41,13			45		
33.84	35.67	Relatively unaltered qd	qd				42				32					
35.67	36.89	Same host lithology: weak pervasive chlorite	qd				42				41					
36.89	38.72	approx 40% recovery; strongly chloritized gouge zones	qd				42				24					
38.72	41.77	Same as above: 30% recovery moderate patchy chloritization	qd				42				33					
41.77	43.29	Broken core; moderate patchy chlorite w/ epidote after horn. At 141ft 1/4 in qtz 45 to CA assoc. w/gouge and moderate chloritization	qd				42				23			45		
43.29	44.82	Patchy weak chloritization; at 144.2 ft qtz vein w/hem (45 deg to CA) intense chloritic envelop	qd				42				32,24			45		
44.82	46.34	Fairly fresh host ; weak patchy chlorite	qd				42				32					
46.34	47.26	At 155 ft localized wk zone of chloritic alt	qd				42				41, 32					
47.26	49.39	Patchy weak chloritization	qd				42				32					
49.39	50.91	Patchy weak chloritic alt.	qd				42				32					
50.91	52.44	Pervasive, moderate intensity chlorite	qd				42				43					
52.44	53.20	Moderate pervasive chloritic alt	qd				42				43					
53.20	53.96	Less intense, patchy subtle chlorite; 176 to 177ft: patchy	qd				42			32	31					
53.96	55.49	Pervasive weak chloritization, and patchy bleached fspars	qd				42			32	32					
55.49	55.79	Banded hematitic alteration	qd				42				41					
55.79	56.25	Moderate, pervasive chloritization	qd				42				43					
56.25	56.71	Subtle, pervasive chloritization	qd				42				41					
56.71	57.01	Subtle pervasive chloritization	qd				42				41					
57.01	58.23	Weak to moderate patchy chloritic alteration	qd				42				33					
58.23	58.84	Weak to moderate pervasive Fe alteration in core	qd				42				41	43				
58.84	61.59	Patchy iron alteration	qd				42				41	32				
61.59	63.11	Subtle pervasive chloritic alteration w/ patches of weak iron alteration; rock is more competant	qd				42				41	32				
63.11	64.63	Same as above	qd				42				41	32				
64.63	66.16	Clay and chlorite filled ?gouge zone at 213 ft; major core loss, 50% core loss; at 216 ft 10 in chlorite band	qd				42			25	25					
66.16	67.68	relatively unaltered host; pervasive 1 chlorite	qd				42									
67.68	69.21	At 225: patchy 2-3 chlorite alt.; at 227 to 232 gouge zone w/ qtz vein (1 ft long min); 227 to 230 gouge, moderate (3) chloritization	qd				42									
69.21	70.73	50% recov. Mod 3 perv chlor	qd				42									
70.73	72.26	increasing levels of Fe alter. (3) pervasive 234 ft; narrow qtz band,	qd				42									
72.26	73.78	3 Fe alteration to 243	qd				42							90		
73.78	74.09	.5 in white bull qtz vein w/hematite perpendicular to CA; spec sx, too small to identify. Chlorite 42	qd				42									
74.09	75.30	Increased qtz veining (.25 in, various orientations, inc. perp); 42 chlorite	qd				42									
75.30	76.83	42 chlorite, some small 45+ qtz veinlets w/ assoc. blebs mag. Getting some visible dissem mag	qd				42									
76.83	78.35	32 to 33 chlorite alt.	qd				42									
78.35	79.88	41 chlorite; at 259 ft gouge zone (50% recov)	qd				42									
79.88	81.40	41 chlorite; competant core	qd				42									
81.40	82.93	32 chlorite; 271 to 272 ft: more altered	qd				42									
82.93	83.23	gouge zone; minor qtz veinlets (45 deg to CA), w/ associated Fe staining	qd				42							45		
83.23	84.45						42									
84.45	85.98	Variable 31 to 32 chlor; small qtz vein w/mag					42									
85.98	87.50	286 1 inch qtz vein w/mag w/ tr cpy 45 to core		1.0			42									
87.50	89.02	42 chlorite; 41 silica; 2mm wide qtz vein w/kspar envelope (at 290 ft) 45 to CA.					42									
89.02	90.55	42 chlorite,293 to 297 fspars bleaching to clay? Accomp. By Fe staining (32), also some epidote (31). At 296 minor tr dissem cpy					42									
90.55	92.07	41 Chlorite ; fairly fresh unaltered. At 301 beginning to have fspar bleaching, to clay?					42									
92.07	93.60	41 Chlorite, same bleaching of fspar as previous; at 306 to 307 broken core, containing 3mm size bleb of cpy		1.0			42									
93.60	95.12	41 chloritic; minor increase in bio and horn.					42									
95.12	99.70	41 chlorite; fairly unaltered core; 312 to 322 ft: minor epidote along fractures 45 deg to core. Increase in Fe staining					42									

From (m)	To (m)	Description	Lith	Mineralization			Alteration						Structural Angles			
				cpy-v	mag-d	mag-v	L1 Qtz	L2 K-fed	L3-ser	L4 Arg	L5 Chl-ep	L6 Hem	CL	V1	V2	V3
99.70	101.22	41 chlorite, no epidote, fairly fresh core					42									
101.22	102.74	At 336, chlorite talc friable core.					42									
102.74	104.27	339 to 340, 341-342 patchy clay alt'n. at 342.5 gouge zone					42									
104.27	105.79	345, 347 gouge zones					42									
105.79	107.32	Increase in iron and bleaching of fspars					42									
107.32	107.77	Broken core					42									
107.77	108.84	41 Chlorite; host lithology					42									
108.84	110.37	41 chlorite; at 359 ft: qtz-Fe veinlets					42									
110.37	111.89	41 chlorite					42									
111.89	113.41	45 to CA moderate 13 chlorite band 5 inches wide					42									
113.41	114.94	At 377 to 378: chlorite/epidote 13					42									
114.94	116.46	41 chlorite; fresh looking core					42									
116.46	117.07	42 chlorite					42									
117.07	117.99	Slight increase in clay content, Fe alt'n; 2 qtz veinlet 45 to CA,					42									
117.99	119.51	45 and 60 to CA fractures w/ clay linings					42									
119.51	121.04	Same as above					42									
121.04	122.56	Same as above, minor epidote in core					42									
122.56	124.09	Same as above, minor epidote in core					42									
124.09	125.61	407-410: 41 Chlorite;42 Chlorite remainder, variable. Minor epidote					42									
125.61	127.13	41 to 42 Chlorite; 416.5-417: gouge zone: clay and chlorite					42				42					
127.13	128.66	42 chlorite, from 417-419 41 chlorite; 421.5 to 423.5 Fe					42									
128.66	130.18	423.5 bleaching(clay) of fspars, 41 chlorite to 426ft					42				41					
130.18	131.71	Increase in silicification (43)and chlorite to 431ft, 428ftgouge;					42				42					
131.71	133.23	433ft small gouge zone, 6 in., bracketed by shattered core					42									
133.23	134.76	41 to 42 chlorite; slight increase in epidote.					42				42					
134.76	136.28	442 ti 444 41 chlorite; at 444ft 6 in gouge zone; increased mag; increase to 43 chlorite immediately following gouge zone to 463					42				43					
136.28	137.80	Increased Fe (32): blotches of hematite;					42				43					
137.80	139.33	455-458.5 qtz/mag vein					42				43					
139.33	140.85	460ft sm gouge zone					42				43					
140.85	142.38	462.5ft 1 inch qtz w/black infilling (non mag) vein 45 deg to					42				43					
142.38	143.90	469 begins 42 chlorite; continuing with 32 Fe					42				43					
143.90	145.43	45 deg qtz at 476.5ft, slight increase in chlorite alt'n (43);					42				43					
145.43	146.95	481ft, chlorite decrease to 42; broken core, minor epidote					42				42					
146.95	148.48	483.5 ft 8 in gouge, perp to CA; broken core					42				42					
148.48	150.00	41 and 42 chlorite, intermittently;					42				42					
150.00	151.52	Slight increase in Fe, 492-494ft					42				41					
151.52	153.05	same as above, broken core; decrease in chlorite to 41; at					42				41					
153.05	154.57	At 506ft, slight increase in iron along shear					42				41					
154.57	156.10	41 to 42 chlorite; pretty fresh core, minor epidote					42				41					
156.10	157.62	Slickensides approx 45 to CA; 42 chlorite					42									
157.62	159.15	42 chlorite					42									
159.15	160.67	42 chlorite; minor qtz veinlet; at 525ft series of minute qtz					42									
160.67	162.20	42 to 43 Chlorite					42									
162.20	163.72	At 532, 2 inch envelope of increased kspar to 45 deg to CA;					42									
163.72	165.24	541.5 large kspar pheno (cm size); 43 chlorite					42									
165.24	166.77	43 chlorite; tiny random qtz veinlets					42									
166.77	168.29	547.5 to 548.1 increase in qtz alt to 43, accompanied by					42									
168.29	169.82	At 552ft, 1 ft of broken core, some limonite, 43 chlorite					42									
169.82	171.34	41 chlorite, unbroken core					42									
171.34	172.87	562 ft minor limonite, broken core, epidote 41chlorite 566.5-					42									
172.87	174.39	minor qtz veining, minor chlorite 41 chlorite					42									
174.39	175.91						42									
175.91	177.44	581 small high angle qtz veinlet, w/ limonite some epidote					42									
177.44	178.96	41 chlorite; competant core, relatively unaltered					42									
178.96	180.49	41 chlorite;					42									
180.49	182.01	595 small perp barren qtz veinlet, 41 chlorite					42									
182.01	183.54						42									
183.54	185.06	43 chlorite; series of 60 deg to CA evenly spaced fractures for					42									
185.06	186.59	42 chlorite; 70 and 45 deg to CA fractures, w/ a transverse set					42									
186.59	188.11	Same fractures as previous w/ epidote linings; at 615, some					42									
188.11	189.63	41 chlorite, tiny epidote filled fractures, limonite on shear					42									
189.63	191.16	41 chlorite; minute fractures w/limonitic staining, spacing					42									
191.16	192.68	Irregular 45 deg fractures w/limonitic staining 41 chlorite. Core					42									
192.68	194.21	Fracture controlled cpy on fracture at 632 ft (45 deg to CA); 41					42									
194.21	195.73	637-652 42 to 43 chlorite; 638-647 broken core. At 645 qtz					42									
195.73	197.26	At 646ft, 6 in gouge then broken core to 649ft w/assoc					42									
198.78	200.30	at 652, 70 deg shear w/assoc epidote to 657ft.					42									
200.30	201.83	At 657.5 , 6 in broken core; 42 chloritic alt					42									
201.83	203.35	42 chlorite 45 deg to CA qtz veinlets (mm scale), 4 in total					42									
203.35	204.88	41 chlorite; series of 11 perp mm scale qtz veinlets w/					42									
204.88	206.40	to 674, two more qtz veinlets w/ chloritic envelopes. At 676ft,					42									
206.40	207.93	677 to 678, series of mm scale 45 deg to CA qtz veinlets					42									
207.93	209.45	Beginning 682, increasing epidote alteration. Series of 30 deg					42									
209.45	210.98	Epidote-qtz vein (60 deg to CA); at 687.5 to 697, series of 45					42									
210.98	212.50	Fairly unaltered competant core w/ 41 chlorite					42									
212.50	214.02	701-702.5 broken core w/ limonite staining; fracture surfaces					42									
215.55	217.07	In vicinity of 712-713, limonitic core (moderate)					42									
217.07	218.60	41 chlorite continuing, patchy 42					42									
218.60	220.12	722 to 723.5ft: fe altered core (moderate), aligned 45 to core;					42									
220.12	221.65						42									
221.65	223.17	728-730 epidote increase and 42 chlorite, then decrease to 41					42									
224.70	226.22	minute qtz veinlets (high angle) w/ chlorite envelopes (few					42									
226.22	227.74	More minute qtz veinlets, random orientation w/ chlorite;					42									

				Mineralization			Alteration						Structural Angles			
From (m)	To (m)	Description	Lith	cpy-v	mag-d	mag-v	L1 Qtz	L2 K-fed	L3-ser	L4 Arg	L5 Chl-ep	L6 Hem	CL	V1	V2	V3
227.74	229.27	41 chlorite; series of fractures 45 to 60 deg to CA, opposing					42									
229.27	230.79	At 755 to 757 few mm-scale qtz filled fractured; 31 chlorite					42									
230.79	232.32	41 chlorite; At 762ft, three 45 deg to CA fe-stained fractures					42									
232.32	233.84	At 765.5ft, 4 minute qtz veinlets ranging from 45 to 60 deg to					42				1					
233.84	235.37	At 767.8, minute qzt fracture w/ chloritic envelope; 41 chlorite;		0.1			42				1					
235.37	236.89	EOH														

From (m)	To (m)	Recovered (m)	RQD Recovery (m)	Recovery (%)	RQD
0.00	12.19			0%	
12.19	14.33	0.40	0.00	19%	0.00
14.33	17.37	3.60	0.94	118%	0.26
17.37	20.42	3.10	0.54	102%	0.17
20.42	23.47	3.10	0.43	102%	0.14
23.47	26.52	2.60	0.28	85%	0.11
26.52	29.57	3.40	0.41	112%	0.12
29.57	32.61	2.70	0.60	89%	0.22
32.61	35.66	3.07	1.22	101%	0.40
35.66	38.71	2.29	0.42	75%	0.18
38.71	41.76	0.87	0.22	29%	0.25
41.76	44.81	3.23	0.00	106%	0.00
44.81	47.85	2.96	0.25	97%	0.08
47.85	50.90	3.08	1.21	101%	0.39
50.90	53.95	3.06	0.88	100%	0.29
53.95	57.00	3.26	1.63	107%	0.50
57.00	60.05	3.40	1.05	112%	0.31
60.05	63.09	2.60	1.10	85%	0.42
63.09	66.14	3.14	6.25	103%	1.99
66.14	69.19	3.38	1.72	111%	0.51
69.19	72.24	1.73	0.21	57%	0.12
72.24	75.29	3.84	0.99	126%	0.26
75.29	78.33	3.14	0.62	103%	0.20
78.33	81.38	2.80	1.41	92%	0.50
81.38	84.43	3.22	0.67	106%	0.21
84.43	87.48	3.06	2.01	100%	0.66
87.48	90.53	3.11	1.23	102%	0.39
90.53	93.57	3.30	1.13	108%	0.34
93.57	96.62		0.93	100%	
96.62	99.67		2.33	100%	
99.67	102.72		1.03	100%	
102.72	105.77		1.06	100%	
105.77	108.81		0.60	100%	
108.81	111.86		1.32	100%	
111.86	114.91		1.29	95%	
114.91	117.96		1.27	100%	
117.96	121.01		1.27	100%	
121.01	124.06		1.37	100%	
124.06	127.10			100%	
127.10	130.15		0.71	100%	
130.15	133.20		0.21	80%	
133.20	136.25		1.07	100%	
136.25	139.30		1.92	100%	
139.30	142.34		1.45	100%	
142.34	145.39		0.65	80%	
145.39	148.44		0.25	90%	
148.44	151.49		0.69	100%	
151.49	154.54		0.46	95%	
154.54	157.58		0.81	100%	
157.58	160.63		1.20	100%	

From (m)	To (m)	Recovered (m)	RQD Recovery (m)	Recovery (%)	RQD
160.63	163.68		0.88	100%	
163.68	166.73		2.10	100%	
166.73	169.78		0.73	100%	
169.78	172.82		0.49	100%	
172.82	175.87		0.85	100%	
175.87	178.92		0.88	100%	
178.92	181.97		2.30	100%	
181.97	185.02		1.48	100%	
185.02	188.06		1.47	100%	
188.06	191.11		0.91	100%	
191.11	194.16		0.95	100%	
194.16	197.21		0.16	95%	
197.21	200.26		0.58	95%	
200.26	203.30		1.80	100%	
203.30	206.35		2.42	100%	
206.35	209.40		2.31	100%	
209.40	212.45		2.20	100%	
212.45	215.50		1.62	100%	
215.50	218.54		1.00	100%	
218.54	221.59		1.35	100%	
221.59	224.64		1.90	100%	
224.64	227.69		2.47	100%	
227.69	230.74		1.94	100%	
230.74	233.78		1.61	100%	
233.78	236.83		1.06	90%	

				Mineralization				Alteration					
From (m)	**To (m)**	**Sample**	**Description**	cha-d	chal-v	mag-d	mag-v	sil	pot	musc after bio	kao	prop	fe
0.00	15.24		no recovery										
15.24	17.52		overburden										
17.52	17.29		Silicified green-tan pink intrusive, cut by regular mm -scale qtz clay filled fractures at 35 to 45 deg to CA orientation; qtz in fractures is comminuted: faulting? Silica obliterates most textures; observable subtle to weak pervasive chlorite, strong pervasive and fracture filling silicification. Phenocrysts limited to unidentifiable mafic (biotite, horn?) minerals, altering to chlorite; also mm-scale clots of hematite (after mag?). Minor limonitic staining of fracture surfaces.			tr		44			22	31	31
17.29			Fault; clay qtz + minor limonite rubble zone; surrounded by zone of large qtz eye development					24			23		11
17.29	17.44		Silicified green-tan pink intrusive with mm sized qtz eyes			tr		44			21	31	31
17.44	18.48	4037	gouge zone, as above; 4 cm wide					24			24	23	21
18.48	19.00	4037	20cm mod kao-K-spar alt local fracture zone;minor musc repl; minor Fe;minor malachite		0.5				32		32	32	31
19.00	20.00		Low recovery;19.5cm @ 19.5 clay qtz						41			42	41
20.00	21.00		Broken core fragments										
21.00	22.00		Broken core fragments										
22.00	23.00		Broken core fragments										
23.00	24.00		localized K-spar flooding;					43	22			42	
24.00	25.00		K-spar vienlets & flooding;Fe stained qtz veinlets 45 deg erratic;					43			43		41
25.00	26.00		25.5 clay gorge; broken core;dis limonite;25.8 increased k-spar alt								42	42	
26.00	27.00		Lg chl-bio phenos; weak kao alt					42	41	41	41		
27.00	28.00	4038	27.5-27.65 K-sap envelope; 27.65 increased chl-qtz					43			33	42	41
28.00	29.00		Same as above						32			42	
29.00	30.00		29.75 6 cm clay-qty gouge 45 deg						32		42	42	
30.00	31.00	4039	Increased epidote/chl; K-spar qtz veinlets+50 deg					42	22		21	33	
31.00	32.00		Same as above 31.4; clay-epidote 34.4 to 30.8;					41				32	
32.00	33.00		Variable weak to mod prop alt & weak K-spar; random clay fracture fill @45 deg					41			12	32	
33.00	34.00		Same as above					41	42		31	42	
34.00	35.00		Same as above					41	42		31	42	
35.00	36.00		Same as above					41	42		31	42	
36.00	37.00		Same as above					41	42		31	42	12
37.00	38.00	4040	Same as above; plus limonite fractures @45-60 deg					41	42		31	42	11
38.00	39.00		Sample as above; less limonite					41	42		31	42	
39.00	40.00		Same as above ; clay fill veinlets @ 45-60 deg					41	42		31	42	
40.00	41.00		Same as previous, minor increase in clay					41	42		32	42	
41.00	42.00		Fairly fresh intrusive w/ Fe? plus qtz staining; broken core. At 41.4, intense clay alteration. Zones of increased propylitic, to 42.					41	42		33	42	41
42.00	43.00		Broke core w/ limonitic staining; v. poor core recovery.					41	42		32	42	41
43.00	44.00	4041	30% recovery; interval is clay qtz gouge					24			24		
44.00	45.00	4041	At 44.0 to 44.9, envelope of limonitic staining. Series of chloritic fractures at 50 deg to CA					42				22	
45.00	46.00		Broken core					43				41	
46.00	47.00		At 46.2, 25 cm clay filled fracture, 50 to CA, w/ limonitic lining at both contacts; 46.6 to 47.0 decrease in alteration					42			11	42	21

				Mineralization				Alteration					
From (m)	To (m)	Sample	Description	cha-d	chal-v	mag-d	mag-v	sil	pot	musc after bio	kao	prop	fe
47.00	48.00		Low chlorite qtz alteration; at 47.85 pervasive epidote					41			41, 23	41	
48.00	49.00		To 48.7, continuing pervasive epidote; at 48.7, envelope of clay-qtz-fe. At 48.8 to 48.9 increase in chlorite					22			22	43	22
49.00	50.00		Moderately chloritized host					42			41	43	
50.00	51.00		At 50.0 to 51.0 clay pebbly qtz gouge zone orientated at 50 deg to CA, w/ limonite on fractures. 50 percent recovery					24			24	42	12
51.00	52.00	4042	Same intrusive rock w/ Fe-qtz, qtz-chlorite alteration ranging from low to mod intensity; low to moderate pervasive kaol replacement of ?fspar, positively correlated with increases in qtz-chlorite.					42			31	42	42
52.00	53.00		52.0 to 52.5 broken core					41			31	42	41
53.00	54.00		Same as above; at 54.0 to 54.5, intense brown Fe alteration					41			33	32	34
54.00	55.00	4043	Same as above					41			33	32	33
55.00	56.00	4043	Broken core and gouge to 57.4m; accompanied by repeated 45 to 60 deg to CA qtz veinlets and by moderate chlorite and quartz (pervasive) alteration.					43,13			33	43	
56.00	57.00	4043	Same as above; gouge ends at 57.4. At 57.4 to 57.5 increased qtz (eyes - mm scale), increased chlorite content					43				44	
57.00	58.00		Same as above					43				44	
58.00	59.00	4044	Random qtz-kao? Veinlets. 58 to 58.8 incresed chlorite-silica; at 58.8 return to low levels of alteration					12,43			12	44	
59.00	60.00		Same intrusive rock w/ Fe-qtz, qtz-chlorite alteration ranging from low to mod intensity; low to moderate pervasive kaol replacement of ?fspar (bleaching), positively correlated with increases in qtz-chlorite. Introduction of large cm-sized bio phenos in less altered core.					42			32	42	41
60.00	61.00		Same as above					42			32	42	41
61.00	62.00		Same as above					42			32	42	41
62.00	63.00		Same as above					42			32	42	41
63.00	64.00		Same as above					42			32	42	41
64.00	65.00		Same as above					42			32	42	41
65.00	66.00		Same as above					42			32	42	41
66.00	67.00	4045	Same as above					42			32	42	41
67.00	68.00	4045	67 to 67.6: 2 cm wide qtz vein at 40 deg to CA, w/ 1cm wide chlorite-hematite envelope. Minor musc after bio; Followed by approx 2cm wide gouge.					42			32	42, 14	14
68.00	69.00	4045	At 68.5, gouge zone; poor recovery. Slight increase in clay and chlorite; broken core at 68.3.					23,42			23,33	43	41
69.00	70.00		Relatively unaltered					42			32	42	41
70.00	71.00		70 to 72, poor recovery: 40 percent					42			32	43	41
71.00	72.00	4046	Slight increase in chlorite					42			32	43	41
72.00	73.00	4046	Same as above					42			32	43	41
73.00	74.00		Decrease in chloritic alteration					42			32	41	41
74.00	75.00		Same as above					42			32	41	41
75.00	76.00		Same as above					42			32	41	41
76.00	77.00		Same as above					42			32	41	41
77.00	78.00		Same as above					42			32	41	41
78.00	79.00		Same as above					42			32	41	41
80.00	81.00		Same as above					42			32	41	41
81.00	82.00	4047	Same as above					42			32	41	41

				Mineralization				Alteration					
From (m)	**To (m)**	**Sample**	**Description**	cha-d	chal-v	mag-d	mag-v	sil	pot	musc after bio	kao	prop	fe
83.00	84.00		Same as above					42			32	41	41
85.00	86.00		Same as above					42			32	41	41
86.00	87.00		Same as above					42			32	41	41
87.00	88.00		Same as above					42			32	41	41
88.00	89.00		Same as above					42			32	41	41
89.00	90.00		Same as above					42			32	41	41
90.00	91.00		Same as above					42			32	41	41
91.00	92.00		Same as above, w/ patches of chlorite and clay . Clay after fspar					42			33	32	41
92.00	93.00		Same as above					42			33	32	41
93.00	94.00		At 93.8, increase in silica and propylitic alteration					43			33	33	41
94.00	95.00		94.0 to 94.4: small gouge zone, 45 deg to CA, 2cm wide; followed by broken core					42			32	32	42
95.00	96.00		Blotchy Fe alteration (pink, interstitial--looks like kspar)					42			31	32	32
96.00	97.00		Weak fracturing at 45 to CA, lined w/ chlorite					43			31	22,33	42
97.00	98.00	4051	Broken core, still in increased chlorite; slight increase in pervasive iron staining					43			31	33	43
98.00	99.00	4051	Same as above, w/ minor increase in patchy epidote					43			31	33, 31	
99.00	100.00	4051	Broken core; bleached qtz-clay-chlorite w/ pink hematite gouge zone at 99.67 to 103. Followed by more competant core w/increase in pervasive chlorite/Fe; minor mm-scale musc.					23,43		41	24	43	22,42
100.00	101.00		Same as above					23,43		41	24	43	22,42
101.00	102.00		Same as above					23,43		41	24	43	22,42
102.00	103.00		Same as above					23,43		41	24	43	22,42
103.00	104.00		At 103.6, end of gouge zone; return to more competant host					43			31	32	32
104.00	105.00		Competant host: patchy chlorite and fe staining to 105.5m					43			31	32	32
105.00	106.00	4052	Increase in pervasive chlorite and silica; fspars replaced by clay. Minor musc after bio.					43		41	42,24	43	41
106.00	107.00	4053	Same as above; 10 cm gouge at 106.5					23,43		41	24	43	41
107.00	108.00		Same as above					23,43		41	24	43	41
108.00	109.00	4054	Broken core					43		41		43	41
109.00	110.00	4055	Slight increase in musc. At 109.4 to 110.4 gouge: clay, qtz, chlorite, fe at 40 deg to CA					23		22	24	23	22
110.00	111.00	4056	Competant host w/ qtz-chlorite alteration 110.4 to 111.0; 110.9 to 111.0: small gouge					43			41	43	41
111.00	112.00		Gouge at 111.4 to 111.7 at 50 deg to CA; followed by broken core to 112					23,42			24	42	21
112.00	113.00		112 to 114.5: relatively unaltered host; some kao after fspar and fe stained qtz. Moderate fracturing 30 to 45 deg to CA					42			42	42	42
113.00	114.00		Same as above					42			42	42	42
114.50	115.00		Slight increase in silica and chlorite					43			41	43	42
115.00	116.00	4057	Same as above					43			41	43	42
116.00	117.00	4057	Same as above					43			41	43	42
117.00	118.00	4057	117.96, small gouge zone					43			41	43	42
118.00	119.00		118 to 120.0: 50% core loss. Gradual increase in bleaching of core. 118.5 to 120.0: gouge zone w/ qtz, clay, Fe.					23			24	32	22
119.00	120.00		Same as above					23			24	32	22
120.00	121.00	4058	Same as above, slightly less bleached					23			23	32	22

				Mineralization				Alteration					
From (m)	**To (m)**	**Sample**	**Description**	cha-d	chal-v	mag-d	mag-v	sil	pot	musc after bio	kao	prop	fe
121.00	122.00		From 121 to 124: 75% core loss. Broken core					43			31	43	41
122.00	123.00		Same as above					43			31	43	41
123.00	124.00		Same as above					43			31	43	41
124.00	125.00		Broken and crushed core					43			31	43	41
125.00	126.00		Same as above					43			31	43	41
126.00	127.00		Same as above					43			31	43	41
127.00	128.00		127 to 130.0m: moderate to intense bleaching, less than 25 % core recovery.					43			33	43	41
128.00	129.00		Same as above					43			33	43	41
130.00	131.00	4059	Series of slickensided shears to 133: gouge, clay, qtz, fe staining. Very poor recovery, approx 30%					23			24	23	22
131.00	132.00	4059	Same as above					23			24	23	22
132.00	133.00	4059	Same as above					23			24	23	22
133.00	134.00		133.0 to 135.0: v. poor recovery: 20 %. Broken, relatively unaltered core					42			32	41	41
134.00	135.00		Same as above					42			32	41	41
135.00	136.00		Same as above to 135.5. At 135.5 m: increase in qtz, chlorite to moderate in intensity					43			32	43	41
136.00	137.00	4060	Same, w/ slight increase in fe staining and clay after fspar. Locally moderate patches of epidote. Core very competant					43			33	33	42
137.00	138.00		Decrease in alteration; local epidote to 138.55					42			32	32	41
138.00	139.00		138.4 to 138.55: very small qtz veins (mm scale) at 30 deg to CA., otherwise relatively unaltered core					42, 12			31	41	41
139.00	140.00		Same intrusive rock w/ Fe-qtz, qtz-chlorite alteration ranging from low to mod intensity; low to moderate pervasive kaol replacement of ?fspar (bleaching), positively correlated with increases in qtz-chlorite. Introduction of large cm-sized bio phenos in less altered core.					42			42	41	41
140.00	141.00		Same as above					42			42	41	41
141.00	142.00		Same as above					42			42	41	41
142.00	143.00		Same as above					42			42	41	41
143.00	144.00		Same as above					42			42	41	41
144.00	145.00		Same as above					42			42	41	41
145.00	146.00		Same as above; 145.4-145.8 slight increase in propylitic alteration; mm scale qtz veinlet					42			42	42	41
146.00	147.00		Same as above					42			42	42	41
147.00	148.00		Same as above; At 147.4m small kspar dikelett					42			42	42	41
148.00	149.00	4061	Same as above					42			42	42	41
149.00	150.00	4061	Same as above; at 150.0m to 154.6m, slight increase in propylitic alteration					42			42	42	41
150.00	151.00	4061	Same as above					42			42	42	41
151.00	152.00		Same as above					42			42	42	41
152.00	153.00		Same as above					42			42	42	41
153.00	154.00		Same as above					42			42	42	41
154.00	155.00		Same as above					42			42	41	42
155.00	156.00		Same as above					42			42	41	42
156.00	157.00		Same as above; 156.3 6.0 cm wide sandy gouge zone					42			42	41	42
157.00	158.00		Same as above; 157.,4-158.0 series of closely spaced 20 deg to CA fractures w/ limonite coating					42			42	41	42
158.00	159.00		Same as above					42			42	41	42

				Mineralization				Alteration					
From (m)	**To (m)**	**Sample**	**Description**	cha-d	chal-v	mag-d	mag-v	sil	pot	musc after bio	kao	prop	fe
159.00	160.00		Same as above					42			42	41	42
160.00	161.00		Same as above					42			42	41	42
161.00	162.00		Same as above; slight increase in chlorite and epidote; minor muscovite					42			42	42	42
162.00	163.00		Same as above					42			42	41	42
163.00	164.00		Same as above, with intervals of increased pervasive propyliti alteration					42			42	42	42
164.00	165.00		Same as above					42			42	42	42
165.00	166.00		Same as above					42			42	42	42
166.00	167.00		Same as above					42			42	42	42
167.00	168.00		Same as above; at 167.7 to 168.0: associated epidote (w/chlorite)					42			42	42	42
168.00	169.00		Same as above					42			42	41	42
169.00	170.00	4062	Same as above					42			42	41	42
170.00	171.00	4062	Same as above; 170 to 170.4 increase in chlorite and epidote					42			42	42	42
171.00	172.00	4062	Same as above; 172.4 0.5 cm wide qtz vein w/ musc border; no sulphides					42		11	42	42	42
172.00	173.00		Same as above					42			42	42	42
173.00	174.00		Same as above					42			42	42	42
174.00	175.00		Same as above					42			42	42	42
175.00	176.00		Same as above; propylitic alteration peripheral to 30 deg to C/ fractures.					42			42	22	42
176.00	177.00		Same as above					42			42	22	42
177.00	178.00		Same as above					42			42	22	42
178.00	179.00		Same as above					42			42	22	42
179.00	180.00	4063	Same as above					42			42	22	42
180.00	181.00	4063	Same as above					42			42	22	42
181.00	182.00	4063	Same as above					42			42	22	42
182.00	183.00		Same as above					42			42	22	42
183.00	184.00		Same as above					42			42	22	42
184.00	185.00		Same as above					42			42	22	42
185.00	186.00		Same as above					42			42	22	42
186.00	187.45		Same as above					42			42	22	42
			End of hole										

From (m)	To (m)	Recovered (m)	RQD Recovery (m)	Recovery (%)	RQD
0.00	15.24	0.00	0.00	0%	
15.24	17.37	2.13		100%	0.00
17.37	23.47	3.25	0.85	53%	0.14
23.47	26.52	3.20	1.10	105%	0.36
26.52	29.57	3.12	1.06	102%	0.35
29.57	32.61	3.09	1.76	102%	0.58
32.61	35.66	3.12	1.16	102%	0.38
35.66	38.71	3.18	1.12	104%	0.37
38.71	41.76	3.09	0.50	101%	0.16
41.76	44.81	2.25	0.24	74%	0.08
44.81	47.85	3.28	0.83	108%	0.27
47.85	50.90	2.66	1.27	87%	0.42
50.90	53.95	3.15	1.25	103%	0.41
53.95	57.00	2.80	0.84	92%	0.28
57.00	60.05	3.16	2.20	104%	0.72
60.05	63.09	3.09	2.65	102%	0.87
63.09	66.14	3.15	2.23	103%	0.73
66.14	68.28	2.95	1.53	138%	0.71
68.28	72.24	2.62	1.09	66%	0.28
72.24	75.29	3.18	1.38	104%	0.45
75.29	78.33	3.05	2.11	100%	0.69
78.33	81.38	3.09	2.33	101%	0.76
81.38	84.43	3.02	2.76	99%	0.90
84.43	87.48	3.24	2.73	106%	0.90
87.48	90.53				0.00
90.53	93.57	3.12	2.19	103%	0.72
93.57	96.62	3.10	1.00	102%	0.33
96.62	99.67	2.99	0.21	98%	0.07
99.67	102.72	2.90	1.96	95%	0.64
102.72	105.77	3.06	0.88	100%	0.29
105.77	108.81	2.77	0.31	91%	0.10
108.81	111.86	3.10	0.70	102%	0.23
111.86	114.91	3.50	0.74	115%	0.24
114.91	117.96		0.00	0.00	0.00
117.96	121.01		0.00	50.00	0.00
121.01	124.06		0.00	30.00	0.00
124.06	127.10		0.00	40.00	0.00
127.10	130.15		0.00	24.00	0.00
130.15	133.20		0.00	52.00	0.00
133.20	136.25		0.27	50.00	0.09
136.25	139.30		2.57	50.00	0.84
139.30	142.34				
142.34	145.39	3.05	2.38	100%	0.78
145.39	148.44	3.05	2.40	100%	0.79
148.44	151.49	3.05	1.78	100%	0.58
151.49	154.54	2.95	1.92	97%	0.63
154.54	157.58	3.04	1.47	100%	0.48
157.58	160.63	3.05	1.78	100%	0.58
160.63	163.68	3.05	1.62	100%	0.53
163.68	166.73	3.05	1.53	100%	0.50

From (m)	To (m)	Recovered (m)	RQD Recovery (m)	Recovery (%)	RQD
166.73	169.78	3.05	1.38	100%	0.45
169.78	172.82	3.04	1.47	100%	0.48
172.82	175.87	3.05	1.20	100%	0.39
175.87	178.92	3.05	1.58	100%	0.52
178.92	181.97	2.80	0.70	92%	0.23
181.97	185.02	3.05	1.39	100%	0.46
185.02	187.45	2.23	1.30	92%	0.53

				Alteration							
From (m)	To (m)	Sample No.	Description	sil	pot	ser	musc	clay	iron	carb	chlor
0.00	21.34		Overburden: no recovery								
21.34	22.00		Med grained quartz-feldspar biotite-hornblende phyric intrusive. Quartz crystals are anhedral and transparent, mm scale in size; feldspar consists of sub to euhedral mm-scale feldspar crystals; biotite is an to subhedral mm to cm sized crystals. Hornblende are sub to euhedral prisms, and less than 1 cm in size. Both hornblende and biotite are pervasively altered to chlorite.						41		41
22.00	23.00		Relatively unaltered core, minor fracturing w/random orientations. Biotite phenocrysts are large: <=cm in size.						41		41
23.00	24.00		Same as above						41		41
24.00	25.00		Minor patchy sericite, rare chlorite microfracture			31			41		41
25.00	26.00		Same as above; rare carbonate lining fracture						41	11	41
26.00	27.00		Relatively unaltered core						41		41
27.00	28.00		Intensively broken core from 27.15 to 27.60m: minor limonite						41		41
28.00	29.00		Very slight increase in iron staining						42		41
29.00	30.00		Intensively broken core from 29.00 to 29.60m; minor patchy sericite. Epidote in mm-scale veinlets.						41		41,11
30.00	31.00		Minor qtz-carbonate +/-epidote-chlorite veinlets, mm scale, 30.95 at various orientations.	11					41	11	42,11
31.00	32.00		Patchy alteration: slight elevations in sericite/epidote, chlorite and iron alteration.			31			32		32
32.00	33.00		Same as previous			31			32		32
33.00	34.00		Same as previous; epidote sericite carb in and around minor fractures			22		21	42	21	41
34.00	35.00		Missing core: nor recovery								
35.00	36.00		35.0 to 35.6 missing core; no recovery. Qtz+/-carb veinlets at various orientations to mm in width; smeared hematite on fracture surface (45 deg to CA)						42	21	41
36.00	37.00		Strongly fractured core at high angles (sub perpendicular). Minor patchy epidote and pervasive hematitic alteration lending a pink colour to the core.						43	42	32
37.00	38.00		Strongly to intensively fractured core; no preferred orientation.Minor patchy epidote and pervasive hematitic alteration as above.							42	41,32
38.00	39.00	4501	Short interval: major core loss. 38.0 to 38.71m: recovery less than 30%. Core is smashed and gravelly. At 38.71m, small gouge, w/ hematite clay on fault surface.					12	12,42		12
39.00	40.00	4501	Significant core loss; strong local fracturing w/ patchy epidote and clay.			41		22	31	41	42
40.00	41.00	4501	Decrease in fracturing; large chlorite after biotite phenocrysts, up to cm scale			31		21	41	21	32
41.00	42.00	4502	Locally intense fracturing of core					12	41	41,12	41
42.00	43.00	4502	42.17 to 42.80 intensively fractured/shattered core grading into silty/gravely gouge					22	41	32	41
43.00	44.00		Same as above					22	41	22	41
44.00	45.00		44.8 to 45.00m: intensively fractured core grading into gouge. Sericite and chlorite haloes around mm scale shallow angled qtz fractures			21		22	42		22
45.00	46.00		From 45.00 to 45.15 m: clayey, ductile to sandy gouge zone. Sandy fault gouge at 45.4 to 45.50m. Remainder of core competant and lightly altered			31		22	41		42

From (m)	To (m)	Sample No.	Description	Alteration							
				sil	pot	ser	musc	clay	iron	carb	chlor
46.00	47.00		Chlorite filled microfracture at 46.08m, w/minor sericite halo. Remainder of core competant and less altered			21		21	41	21	41,12
47.00	48.00		Very minor sericitic haloes around sub parallel hairline qtz fractures. Biotite (and hornblende?) altering directly to muscovite; no chlorite			22	41		41	11	
48.00	49.00		At 48.90m: carbonate bearing ductile clayey gouge; slight increase in muscovite alteration. Fracturing at variable orientations: 35 to 60 deg to CA			22	42		41	22	11
49.00	50.00		Epidote and sericite in and around fractures; at 49.00m chlorite-carb clay gouge zone			41	41		41	41	11
50.00	51.00		Same as above; 51.48m: 2cm wide qtz -carb vein			41	41		41	21	11
51.00	52.00		Same as above			41	41		41	41,22	
52.00	53.00		At 52.01m, a 1 cm wide clay-sericite,minor carbonate gouge w/qtz eyes. Weak 4cm envelope of epidote			32			41	12,41	
53.00	54.00		Same as above, patchy epidote & qty, chl & carbonate veinlets	32		32			41	12,41	42
54.00	55.00		SAA, Downward chl alt increase, minor Fe on fractures, strongly broken core	32		32			41	12,41	43
55.00	56.00		SAA, strongly broken core					11			
56.00	57.00		Intensely broken core, carb and chl and quartz grain bearing gouge intervals, intensely bleached					34	31,11	41	43
57.00	58.00		Same as above					34	31,11	41	43
58.00	59.00		Same as above					34	31,11	41	43
59.00	60.00		80% lost gouge zone, no primary, predominant chl, clay					34		42,11	43
60.00	61.00		SAA, primary texture 60.1 to 60.5					34	32	42,11	43
61.00	62.00		SAA, intensely broken core, decrease in gorge, patchy carb					41		31	42
62.00	63.00		SAA, intensely broken core, increase in gorge					34	32	32	42
63.00	64.00		SAA, intensely bleached					34	32	32	42
64.00	65.00		Intensely broken core, mod carb and low chl bearing gouge intervals,					34	31	33	41
65.00	66.00		Patches of primary textures, decreasingly broken core, from 65 to 65.4 m. Intensivelz broken core from 65.6 to 66 m.cm scale alteration halos bearing minor (blebby?) quartz and sericite.	21?		22		41	32	22	41
66.00	67.00		Decreasing alteration, decreasing fracturing, relatively fresh appearing material. Preferred orientation of fracture planes @ 50 to 60 deg to CA. Rhodochrosite and/ or K-spar bearing hairline veinlets.		11?	21		32,22	41	32	42
67.00	68.00		Increasing clay mineral bearing alteration, but primary textures remain. Up to > dm wide clayey-ductile to gravely, carbonate bearing gouge zones.	31?				33	31	11,31	31
68.00	69.00		Similar to previous, but increasing alteration, +/- obliterating primarz textures, grading into > dm wide clayey, ductile to fine gravely, carbonate bearing gouged zones with (blebby) quartz grains (primary,escaped alteration?)	32?		32		34	31	32	31
69.00	70.00		Strongly decreasing alteration (leaving fault zone). Approx 2 mm wide, orange rhodochrosite and/ or K-spar bearing veinlets are subparallel to CA and amount to %-range. Trace epidote.		11?	31		32	41	11,41	42
70.00	71.00		Same as previous. Strongly fractured subsections.		11?	31		31	41	21	42
71.00	72.00		SAA		11?	32		31	41	22	11,42

				Alteration							
From (m)	To (m)	Sample No.	Description	sil	pot	ser	musc	clay	iron	carb	chlor
72.00	73.00		SAA, but lack of a.m. orange veinlets. Trace patchz epidote. From 72.2 to 72.4 sub cm to 3 cm wide clayey, ductile, minor carbonate beraing, gouged zones.			31		42	41	31	42
73.00	74.00		SAA					32	41	11	42
74.00	75.00		SAA					31	41	11	42
75.00	76.00		SAA					31	41	11	42
76.00	77.00		Low level alteration, minor yet pervasive clay replacement of feldspar, qty porphyry,minor chl envelopes along fractures; minor carbonate					41	41	11	41
77.00	78.00		SAA					41	41	11	41
78.00	79.00		SAA					41	41	11	41
79.00	80.00		SAA					41	41	11	41
80.00	81.00		SAA, 8cm wide gouge zone and increased chl & sericite halo,			31		41	41	11	41, 33
81.00	82.00		SAA Core loss >90%					41	41	11	41
82.00	83.00		SAA Core loss >90%					41	41	11	41
83.00	84.00		SAA Core loss >90%					41	41	11	41
84.00	85.00		SSA, with slight increase in chl alt					41	41	11	42
85.00	86.00		SSA, with slight increase in chl alt					41	41	11	42
86.00	87.00		SSA, with slight increase in chl alt					41	41	11	42
87.00	88.00		SSA, with slight increase in chl alt					41	41	11	42
88.00	89.00		Fault zone; broken core; limonite stain in predominently clay gouge;					43	42,33	11	42
89.00	90.00		Fault zone; broken core; limonite stain in predominently clay gouge;					43	42,33	11	42
90.00	91.00		Low level alteration, minor yet pervasive clay replacement of feldspar, qty porphyry,minor chl envelopes along fractures;					41	41	11	42
91.00	92.00		SAA, small gouge zone; broken core; minor epidote					41	41	11	42
92.00	93.00		SAA Broken core					41	41	11	42
93.00	94.00		94.5 to 95.0m Fault zone; broken core; mod high limonite stain in predominently clay gouge;					41, 33	33	11	41
94.00	95.00		Low level alteration, minor yet pervasive clay replacement of feldspar, qty porphyry,minor chl envelopes along fractures;					41	41	11	41
95.00	96.00		Low level alteration, minor yet pervasive clay replacement of feldspar, qty porphyry,minor chl envelopes along fractures; minor carbonate Possible actinolite or diopsite					41	41	11	41
96.00	97.00		SSA, small clorite slip at 96.9					41	41	11	41, 33
97.00	98.00		SAA					41	41	11	41
98.00	99.67		SAA, Minor Fe on slip					41	41	11	41
			END OF HOLE								

From (m)	To (m)	Recovered (m)	RQD Recovery (m)	Recovery (%)	RQD
0.00	21.34	0.00	0.00	0%	
21.34	23.47	1.74	1.34	82%	0.77
23.47	26.52	2.76	1.67	90%	0.61
26.52	29.57	2.46	0.94	81%	0.38
29.57	32.61	2.84	0.36	93%	0.13
32.61	35.66	1.40	0.59	46%	0.42
35.66	38.71	1.37	0.12	45%	0.09
38.71	41.75	2.70	0.22	89%	0.08
41.75	44.80	2.62	0.90	86%	0.34
44.80	47.80	2.27	1.06	76%	0.47
47.80	50.90	3.10	1.75	100%	0.56

From (m)	To (m)	Sample	Description	Mineralization bor-d	bor-v	cpy-d	cpy-v	cha-d	chal-v	mag-v	Alteration sil	pot	ser	musc	clay	chlor	iron	carb
0.00	12.19		overburden: no recovery															
12.19	14.00		Med grained intermediate to felsic intrusive. Phenocrysts consist of sub to euhedral fspar laths, subhedral mafic phenocrysts of biotite and hornblende, w/pervasive chloritization, anhedral interstital quartz. Alteration includes fracture related and halo clay, sericite, iron and quartz-carbonate in varying intensity. Patchy weak magnetism persists throughout core in less altered areas. Green sericite after plagioclase grades outward from fracture halos to a weak pervasive alteration of the core. Occasional pseudomorphs of muscovite after biotite occur throughout the core. Fracturing and faulting (gouge) is moderate to intense; fracture orientations vary, but include common recurring steep and 45 degree orientations. Metallic mineralization includes trace amounts of disseminated and qtz veinlet related chalcocite, bornite and chalcopyrite. Quartz and quartz+/- carbonate veinlets <= cm in width occur sporadically at predominantly steep (sometimes 45 deg to CA) orientations.								42		32		11	41	41	31
14.00	15.00		14.55 to 14.66m quartz serc clay gouge zone containing qtz veinlet; at 14.85 mm scale qtz-carb veinlet at 70 deg to CA . Rare mm scale blebs of hematite.								42,11		32		23	41	41	31
15.00	16.00		Slight increase in alteration: pervasive chlorite sericite and carbonate, coincident w/ muscovite/clay after bio?								32		32	41	41	33	31	42
16.00	17.00		Small decimeter wide bleached zone at 16.00m, accompanied by minor qtz-carb veinlet. Patchy chlorite-sericite-iron alteration								32		32	41	11	33	31	12,41
17.00	18.00		Less altered core.								42		42			32	41	12
18.00	19.00		Same as above								42		42			32	41	12
19.00	20.00		Mm scale qtz veinlet at 19.10m. At 19.10 to 19.30 blebby qtz (approx 30%) w/ several cm wide chloritic halo								32		42	41	41	31	41	
20.00	21.00		At 20.7 to 20.8 m minor qtz-carbonate veining: appox. 0.5 cm wide, variable orientations, from 20 to 90 deg to CA. Locally small specs of hematite w/rare chalcopyrite.			0.1					32,12		42	42	41	32	31	12
21.00	22.00		Increase in pervasive sericite and blebby qtz content. Trace amounts of blebby hematite								33		43	42	42	32	31	12
22.00	23.00		Trace disseminated blebs of hematite (after chalcocite?); tr of chalcopyrite			0.1					33		42	41	11	41	42	
23.00	24.00		At 23.1 to 23.2m: 0.5 cm wide qtz veinlet w/ trace dissem chalcocite.					0.1			33,11		43	41	11	32	42	11
24.00	25.00		Increase in sericite and chlorite content; 0.5% dissem and qtz+/- carb veinlet hematite +/- chalcocite					0.5			33,11		33		22	33	31	11
25.00	26.00		At 25.66m a 2 cm qtz carb veinlet w/ pink iron-f.grained sericite halo. At 25.3m small clay gouge zone								42,11		43		22	42	32	11
26.00	27.00		Patchy alteration; three qtz-carb veinlets at 26.6 m at 45% to CA								42,11		43		21	32	32	11
27.00	28.00		Same as above, minus veinlets								42		43		21	32	42	
28.00	29.00		Decrease in alteration; patchy sericite.								42		32			41	42	21
29.00	30.00		Same as above								42		32			41	42	21
30.00	31.00		At 30.1m narrow clay gouge perpendicular to CA; at 30.55m another mm scale clay gouge at 30 deg to CA.								42		32		12	41	42	21
31.00	32.00		Same as above, no gouge zones								42		32			41	42	21
32.00	33.00		Same as above								42		32			41	42	21
33.00	34.00		Same as above								42		32			41	42	21
34.00	35.00		Strong to locally intense fracturing at various atitudes. Minor clay along fractures. Alteration more pervasive, locally obliterating primary textures. At 35.0m, 3 cm gouge zone of mixed texture: clay to fine gravel.								32		42			42	41	21
35.00	36.00		Strongly to intensely fractured w/ subsections of clay gouge.								43		42		23	32	31	33
36.00	37.00		Same as above; local small aggregrates of hematite-chalcocite?								33		32		23	33	31	12
37.00	38.00		Lost core															
38.00	39.00		Lost core to 38.71; 38.71 to 39.00m more competant, less altered core. At 38.90m, 7mm wide qtz vein at steep angle to CA; no observable sulphides.								42,11		32	41	23	41	31	
39.00	40.00		At 39.75 to 38.0 m: clay hematite gouge surrounding qtz veinlet containing hematite-chalcocite? Aggregates. Several mm to cm-scale qtz-carb veinlets: steep orientation, including perp. to CA								43,12		33	41	23	32	31	
40.00	41.00		Increase in qtz blebs. 40.55 to 40.70m: gouge zone								44,12		43		23	42	31	21
41.00	42.00		Broken core; gouge zone at 41.15 m; minor localized patchy epidote								44,12		43		23	32	31	21
42.00	43.00		More competant core								44,12		43		23	32	31	21
43.00	44.00		Broken core w/significant gouge								44,12		43		23	32	31	21
44.00	45.00		same as above								44,12		43		23	32	31	21
45.00	46.00		same as above; at 45.1m, 2 cm wide qtz vein at 60 deg to CA, peripheral to gouge/fault to 45.25 m. Associated w/increase in sericite. 45.6 to 45.7 m: clay sericite gouge zone.								44,12		43		23	32	31	21
46.00	47.00		Same as above; 46.1 to 46.2m: med. Grained gouge								44,12		32		23	32	42	22
47.00	48.00		Same as above; gouge at 47.25 to 47.30m and very clay rich; 47.65 to 47.95 quartz-clay gouge zone. Gouge zones interspersed w/broken core.								44,12		32		23	32	42	22

From (m)	To (m)	Sample	Description	Mineralization bor-d	bor-v	cpy-d	cpy-v	cha-d	chal-v	mag-v	Alteration sil	pot	ser	musc	clay	chlor	iron	carb
48.00	49.00		Patchy alteration. At top of gouge zone, beginning w/ 47.95m: dense pink quartz w/patchy sericite zone 20 cm wide. Interval highly altered where primary textures are nearly obliterated. At 49.00m, 10 cm wide zone of gouge containing clay and cm-size qtz blebs. At 48.65m, bright red hematitic specs--chalcocite??								34		33		23	32	32	32,12
49.00	50.00		Interval of clay-qtz-carb gouge								23		23		23	22	21	22
50.00	51.00		same as above								23		23		23	22	21	22
51.00	52.00		Strongly fractured core; fractures to 45 deg to CA. Minor qtz carb veining, sub mm to 5mm in width. Primary textures significantly affected by alteration. Strongly qtz-sericitic. From 51.00 to 51.50 m disseminated hematite, appears to be after sulphide								43		43	42	23	32	32	22
52.00	53.00		Strongly to intensely fractured, grading to gouge. 52.00 to 52.50m, clay-blebby quartz gouge zone.								42		42	41	24	32	32	
53.00	54.00		Same as above; gouge zone at 53.25 to 53.35m.								42		42	41	24	32	32	
54.00	55.00		More competant core; alteration obliterating primary textures								42		42	41	11	42	41	
55.00	56.00		Same as above; 55.1 to 55.40m clay-qtz w/minor carb gouge								42		42	41	22	42	41	
56.00	57.00		Same as above; 56.20 to 56.30m clay-qtz w/ minor carb gouge zone								42		42	41	22	42	41	
57.00	58.00		Same as above; at 57.25m, localized zone of dissem. Hematite after chalcocite??At 57.90 m a 3cm clay-qtz ductile to fine gravel gouge.								42		42	41	22	42	41	
58.00	59.00		Increase in ser content, decrease in iron. Approx. 0.5% hem after? -disseminated.								42		33	41	22	42	31	
59.00	60.00		Same as above: hematitic specs are patchy. Lack of primary textures								42		32	41	21	32	31	31
60.00	61.00		Approx. 1% Disseminated mm-scale black, metallic, striated specs, hardness 4, with a dark grey-black streak. Associated w/hematitic halo. Interval has slight increase in muscovite. At 60.90m, cm wide qtz vein, very shallow angle to CA, and cut by mm-scale variable angle clay-carbonate filled fractures.								42		32	42	21	32	31	31
61.00	62.00		Strongly fractured core w/ up to 5 cm wide clay gouge zones between 61.10 to 61.30m. Black disseminated metallic minerals replaced by hematitic specs, approx. 2%. Interval also has increased quartz blebs.								43		42	41	23	42	42	31
62.00	63.00		Same as above, but minor gouge. Increase in disseminated hematitic specs (over 3%); fracturing in core has a preferred subparallel to CA orientation, with subordinate randomly oriented fractures								43		42	41	23	42	43	31
63.00	64.00		Same as above; at 63.30 and 64.0m 3mm wide hematite veinlet oriented at 30 deg to CA; decrease in disseminated hematite to 2%.								42,11		42	41	23	42	42,11	31
64.00	65.00		Core more competant; patchy alteration. At 64.30 and 64.60 approx 5mm wide qtz-carb veinlet, subperpendicular to CA.								42,11		33	41	21	32	32	21
65.00	66.00		More uniform alteration; muscovite content slightly increased.								42		43	42	11	42	32	21
66.00	67.00		At 66.34m: onset of severe sericite-clay alteration of a qtz rich zone; minor veinlet hematite and chlorite.								43		44		44	11	11	
67.00	68.00		Same as above								43		44		44	11	11	
68.00	69.00		Same as above								43		44		44	11	11	
69.00	70.00		Intensively fractured core, locally grading into clay-fine gravel fault gouge at 69.30- 69.7 m. At 69.90 cm a cm wide qtz carb veinlet at 55 deg to CA. Minor patchy epidote, and increased patchy chlorite.								42		41		23	43	41	22
70.00	71.00		Minor patchy epidote, increase in sericite at expense of chlorite. At 70.30m a cm wide qtz+/- carb vein sub-perpendicular to core. Minor dissem specs of hematite								42		42	41	11	42	41	32
71.00	72.00		Increase in dissem hematite specs to 2% and as large as 1cm sized blebs. Core highly fractured.								42		42	41	11	42	41	32
72.00	73.00		Intensively fractured core, interspersed w/ subintervals of clay-fine gravely gouge. Large anhedral cm scale chlorite (after bio-horn). This interval has an increased level of carbonate alteration.								42		42		21	42	41	42
73.00	74.00		Less fractured core; core is slightly less altered w/ local patches of iron staining.								41		42		21	42	11,32	42
74.00	75.00		Same as above, w/ gravely clay-qtz gouge zone containing a cm sized carbonate vein at 74.60 to 74.90m; upper contact is at 40 deg to CA, lower is perpendicular to CA								41		32		22	42	32	42,22
75.00	76.00		First 30 cm very broken (shattered) core--alteration same as previous interval								41		32		22	41	32	42
76.00	77.00		Same as above; from 76.30 to 76.90 broken core grading locally in small subsections of clayey-fine gravel gouge, containing minor carbonate								41		32		22	41	32	41
77.00	78.00		Same as above, sericite becoming patchy. Trace amounts of disseminated hematite specs								31		32		21	32	42	42
78.00	79.00		78.40 3cm wide carbonate vein at 45 deg to CA; at 78.90m 2 cm wide carbonate-qtz vein perpendicular to CA.										32		42	42	31	12,42
79.00	80.00		Same as above; slight increase in clay alteration of fspar.										33		33	42	32	31
80.00	81.00		Strongly fractured core, w/ clay lining fractures.										41		33	42	42	41
81.00	82.00		From 81.40 to 81.80 highly fractured core w/ clay gouge; locallized blebby qtz								31		31		41,24	42	41	

From (m)	To (m)	Sample	Description	Mineralization bor-d	bor-v	cpy-d	cpy-v	cha-d	chal-v	mag-v	Alteration sil	pot	ser	musc	clay	chlor	iron	carb
82.00	83.00		Less fractured core;										31		33,12	42	41	22
83.00	84.00		From 83.40 to 83.90: fault zone, filled w/ clay gouge and minor qtz blebs								32		31		14,42	42	42	22
84.00	85.00		Fairly competant core, w/ locallized zone(s) of intense clay alteration. Up to cm wide qtz veins +/- carb at steep angle to core								12		32		23	42	42	22
85.00	86.00		Patches of blebby quartz and chlorite. 85.15 to 85.30 m shattered core w/ small (2cm) clay fault gouge at steep angle to CA.								33		32		12,32	42	42	22
86.00	87.00		Introduction of patchy silicification								32		32		12,32	42	41	22
87.00	88.00		Same as above								32		32		12,32	42	41	22
88.00	89.00		88.0 to 88.6m highly altered zone w clay, carb, qtz blebs and patchy sericite								32		33		34	32	31	32
89.00	90.00		Relatively unaltered core, few fractures										31		41	41	41	11
90.00	91.00		From 90.70 to 91.26m: zone of patchy qtz, sericite, iron, chlorite alteration enveloping series of sub-perpendicular fractures, some lined w/ clay gouge								32		32			32,41	31,41	12
91.00	92.00		Patchy alteration ending at 91.26m, rest of interval relatively unaltered										41		42	41	41	
92.00	93.00		Relatively unaltered core, few fractures										31	41	42	41	41	
93.00	94.00		Same as above										31	41	42	41	41	
94.00	95.00		Same as above										31	41	42	41	41	
95.00	96.00		Same as above. Few perpendicular clay filled fractures w/chlorite-sericite +/-iron bearing cm scale alteration haloes. At 95.2m, perpendicular cm wide qtz vein.										31	41	42	41	41	
96.00	97.00		Interval is fractured and altered; fracture orientation is variable; carbonate lined parallel and 35 deg to CA fractures.										23			41	41	22
97.00	98.00		Clay gouge and carbonate veinlet from 97.15 to 97.25m; carbonate veinlet at										41			41	41	22
98.00	99.00		Same as above										41			41	41	22
99.00	100.00		Same as above; minor patchy sericite alteration; minor clay on perp. To CA fracture										31		11	41	41	21
100.00	101.00		Lost core from 100.40 to 101.00m										21			41	41	11
101.00	102.00		Same as above										21			41	41	11
102.00	103.00		Same as above										41			41	41	11
103.00	104.00		At 103.30 to 103.60 m: strong chlorite-sericite-carbonate alteration zone										32			32	31	32
104.00	105.00		Same as previous; decreasing alteration. Minor chlorite-sericite on fracture surfaces.										32			32	41	31
105.00	106.00		Intensively broken core from 105.00 to 105.40										22			22	41	21
106.00	107.00		Carbonate in and around hairline fractures: no preferred orientation. Rhodocrosite veinlet 0.5cm wide at 106.7m: subperpendicular to CA										32,22		11	22	41,11	23
107.00	108.00		From 107.23 to 107.90m fault zone containing alternating qtz and carbonate veining at subperp orientation. To CA , with several decimetre wide blebby qtz, chlorite carb clay halo. From 107.75 to 107.95m clayey ductile to fine gravel fault gouge								23		21		24	23	21	22
108.00	109.00		More competant core, w/modest patchy alteration. Some broken core and minor silicification.								42		42		21	32	42	22
109.00	110.00		Relatively unaltered core, minor alteration. Minor hematite on fracture surfaces										31			41	41,11	42,22
110.00	111.00		Strong alteration, almost obliterating primary textures. Consist mostly of pervasive sericite, blebby quartz and patches of hematite w/quartz-carbonate. Friable core. Minor ductile clay gouge zone at 110.50 to 110.60.								43		43	41	22	32	31	21
111.00	112.00		Same as previous; At 111.6, dissem bornite specs associated w/ patchyqtz-carb-hematite alteration	0.1							43		43	41	22	32	31	21
112.00	113.00		Same as above, at 112.30m, decreasing alteration and increasing competency of core; at 112.00 and 112.20, 2cm wide clay filled gouge zones. Interval contains variably oriented sub-3mm qtz-carb veinlets.								42		32	41	23	42	31	23,32
113.00	114.00		Moderate pervasive carbonate alteration. At 130.52m: mm wide qtz veinlet at 70 deg to CA w/ hematite-carbonate halo 3mm wide								33,12		32	42	22	32		43
114.00	115.00		Patchy alteration								42		32	42	11	32	41	42
115.00	116.00		115.7 to 116.00m intensively broken core grading to sandy gouge								42		32	42	22	32	32	42
116.00	117.00		Broken core, w/ local clay and sandy gouge. Alteration same as above								42		32	42	22	32	32	42
117.00	118.00		Same as above								42		32	42	22	32	32	42
118.00	119.00		At 118.80m 3 cm fault gouge								32		33		32,21	42	31	42
119.00	120.00		Several small gouge zones at steep angles, up to cm width. Intensively broken core from 119.80 to 120.00m								32		33		32,21	42	31	42
120.00	121.00		120.04 to 120.50m, intensely carbonate-sericite-clay-blebby quartz altered zone. Minor hematite-carbonate-chlorite veining at 121.00m. Trace bornite associated.	0.1							11,43		43		14	32	12	41,12
121.00	122.00		At 121.20m outwardly zoned qtz-hem-carb vein at steep angle to CA, 3 cm wide. Interval has significantly less clay alteration, but has blebby qtz, giving a specled appearance.								33,12		32		11	33	31	43
122.00	123.00		Decreasing alteration to patchy.								42		23		11	32	32	22

				Mineralization							Alteration							
From (m)	To (m)	Sample	Description	bor-d	bor-v	cpy-d	cpy-v	cha-d	chal-v	mag-v	sil	pot	ser	musc	clay	chlor	iron	carb
123.00	124.00		Fracture-envelope sericite alteration and hairline fracture filling chlorite. Regular 20 deg to CA fractures.								42		22	41	11	11	32	22
124.00	125.00												32	41	22	41	32	12
125.00	126.00		Strongly broken to shattered core. 60 deg to CA fractures: cm scale. 125.80 to 126.00m minor clay fault gouge. Minor hematite on fracture surface and as hairline fracture surface.								32		42	41	12	41	31	22
126.00	127.00		Core loss; minor alteration										31			41	41	11
127.00	128.00		Same as above										31		41	41	41	11
128.00	129.00		Same as above										21	41	41	41	41	11
129.00	130.00		Same as above										21	41	41,11	41	41	11
130.00	131.00		Same as above										21	41	41,11	41	41	11
131.00	132.00		Decreasing alteration, chlorite and hematite lining fractures										21	41	41,11	41,11	41	11
132.00	133.00		Pervasive clay after feldspar alteration										31	41	32	41,11	41	41,11
133.00	134.00		Minor carbonate-hematite veinlets at 65 deg to CA; clay alteration in and around fractures. Clay and carbonate on fracture planes								32		32		22	42,31	41	41
134.00	135.00		Strongly, locally intensively broken cre. Gouged zone from 134 to 134.3 m. Pervasive quartz-, sericite-, chlorite alteration obliterating primarz textures. Carbonate- and hematite bearing vein at 34.5 m @ steep angle to CA								43		32		22	42	12	33
135.00	136.00		Decreasing alteration relativ to previous interval,								32		32	41	41,11	42	31	22,41
136.00	137.00		Strongly to intensivly broken core, grading into local, narrow, gouged zones. Slightly increased alteration realtive to previous interval. 3 mm wide, carbonate, +/- hematite bearing vein at 136.9, @ 50 deg to CA								43		42		12,41	42	11,31	22,32
137.00	138.00		Decreaing fracturing, decreasing alteration, preferred orientation of fractures @ approx 60 deg and subvertical to CA.										31		11	11,42	41	11
138.00	139.00		Same as previous interval										32		41	41	31	22,41
139.00	140.00		Same as previous interval, mislatch from 139.5 to 139.8										32			12	31	22,42
140.00	141.00		Same as previous interval, intensively broken core with > 5 cm clayey, ductile, carbonate bearing fault gouge at 140.1 to 140.3								31		31		12	12,42	41	21,42
141.00	142.40		Same as previous interval								31		31			42	41	21,42
142.40			E O H															

From (m)	To (m)	Recovered (m)	RQD Recovery (m)	Recovery (%)
0.00	12.19			0%
12.19	14.33		0.47	90%
14.33	17.37		0.62	100%
17.37	20.42		0.57	90%
20.42	23.47		1.03	100%
23.47	26.52	3.03	2.10	99%
26.52	29.57	3.13	1.84	103%
29.57	32.61	2.84	0.60	93%
32.61	35.66	2.99	0.83	98%
35.66	38.71	1.50	0.11	49%
38.71	41.76	1.84	1.50	60%
41.76	44.81	3.00	0.70	98%
44.81	47.89	2.86	0.70	93%
47.89	50.90	2.50	0.34	83%
50.90	53.95	3.10	0.25	102%
53.95	57.00	3.20	0.66	105%
57.00	60.05	1.50	0.57	49%
60.05	63.09	3.06	0.88	101%
63.09	66.14	2.87	1.00	94%
66.14	69.19	2.75	0.88	90%
69.19	72.24	2.45	0.10	80%
72.24	75.29	2.55	0.32	84%
75.29	78.33	2.81	0.28	92%
78.33	81.38	1.42	0.11	47%
81.38	84.43	2.88	0.69	94%
84.43	87.48	2.90	0.97	95%
87.48	90.53	2.97	1.54	97%
90.53	93.57	3.04	2.31	100%
93.57	96.62	3.03	2.30	99%
96.62	99.06	3.20	2.12	131%
99.06	102.72	2.71	1.71	74%
102.72	105.77	2.67	0.95	88%
105.77	108.81	3.20	0.55	105%
108.81	111.86	2.83	0.47	93%
111.86	114.91	2.70	0.80	89%
114.91	117.96	2.58	0.64	85%
117.96	121.00	2.27	0.88	75%
121.00	124.05	3.01	1.84	99%
124.05	127.10	2.53	0.54	83%
127.10	130.15	2.44	0.75	80%
130.15	133.20	2.60	1.40	85%
133.20	136.30	2.60	0.92	84%
136.30	139.80	2.49	0.40	71%
139.80	142.40	3.20	1.90	123%

From (m)	To (m)	a m		Lith	Mineralization							Alteration sil	pot	ser	musc	clay	iron	carb	chlor
18.29	22.00		Intensely broken core, mod carb and low chl bearing gouge intervals; 20.4 to 22.0 clay gouge zone; pale light grey bleach													34		33	41
22.00	24.00		Intensely broken core, low carb and mod chl bearing rock gouge intervals,													34		33	42
24.00	26.00		Lost Core																
26.00	28.00		SAA													34		33	42
28.00	30.00		Lost core																
30.00	32.00		30% core, primary textured conserved													32		41	41
32.00	34.00		Intensely broken core, low carb and low chl; Fe Silica patchy alt															32	41
34.00	36.00		Bleached clay & sericite alt, Fe-Silica patchy alt, dark grey sub to mm carb; high angle veinlet,															22	41
36.00	38.00		Lost Core																
38.00	40.00		Patchy k-feldspar to clay alt; patchy Fe; chlorite envelops along fractures									41	41			32	21	22	21
40.00	42.00		20% recovery; bleached gouge; fractured core; high clay									41	41			34	41	32	
42.00	44.00		Bleached core;intensively fracture									42	41			41 31	32		
44.00	46.00		Bleached clay & sericite alt, Fe-Silica patchy alt, minor epidote									41	41	41			41	21	
46.00	48.00		SAA; primary textured conserved;									41	41	41		33	41	21	31
48.00	50.00		SAA									41	41	41		33	41	21	31
50.00	52.00		Intensively fractured and gouge core; mod clay; patchy Si; minor chl alt									32	41	31		33	41-21	22	31
52.00	54.00		SAA; possible K-spar or Fe-carb bearing veinlet									32	41	31		33	41-21	22	31
54.00	56.00		SAA; slight increase sericite									32	41	31		33	41-21	22	31
56.00	58.00		SAA; slight increase sericite									32	41	31		33	41-21	22	31
58.00	60.00		Decrease in 1) alt; 2) fracturing; 3) gouge; conpentent low altered core; minor sericite									31	41	21		22-32	41	21	41-11
60.00	62.00		SAA; massive core									31	41	21		22-32	41	21	41-11
62.00	64.00		SAA; increase Sericite; qtz alt									42	41	32				21	41
64.00	66.00		Moderate fractured; primary texture conserved; clay with fractured sub parallel to core; patchy sericite									41	41	32		22	41		41
66.00	68.00		SAA									41	41	32		22	41		41
68.00	70.00		Broken core low recovery;some gouge									41	41	32		22	41		41
70.00	72.00		SAA; possible K-spar or Fe-carb bearing veinlets									41	41	32		22	41		41
72.00	74.00		SAA;									41	41	32		22	41		41
74.00	76.00		Low fractured; primary texture conserved; low chl; low clay; low Fe									41	41	32		22	41		41
76.00	78.00		SAA; 50% recovery; highly fractured;mm veinlets 30% carb Fe or K-spar filling									41	41	32		22	41	22	41
78.00	80.00		SAA:Epidote veinlets									41	41	41		31	41	22	41-11
80.00	82.00		SAA; Recovery 30%;									41	41	41		22	42	22	41
82.00	84.00		SAA; Ssome broken core; 80.9 to 81.2 clay gouge									41	41	41		33	42	23	41
84.00	86.00		Low but pervasive qtz blebs; K-spar, chl alt; broken core; clay gouge									41	41			43		31	41
86.00	88.00		SAA; highly bleached fault zone; kaol; trace cpy + 1 mm patchy born vnlt @~ 86.6 m (across 3 cm)									41				43			
88.00	90.00		SAA: Intermittent fault gouge 20%									41	41	41		43		21	41
90.00	92.00		SAA; slightly more massive core									41	41	41		31	41	21	41
92.00	94.00		SAA; quite broken; intermittent gouge sections									41	41	41		31		21	41
94.00	96.00		Broken core; increased K-spar;									41	43	42		21	41	21	41
96.00	98.00		SAA; Moderately broken									41	43	42		21	41	21	41
98.00	100.00		Weakly broken; fractured related Fe-with minor bornite; cpy blebs 98.6 to 98.9m; 98.2 bornite; 99.7 cpy spec									41	43	42			42		42
100.00	102.00		Moderately broken core; minor gouge; pervasive K-spar									41	43	42			41		43

From (m)	To (m)	am		Lith		Mineralization						Alteration							
												sil	pot	ser	musc	clay	iron	carb	chlor
102.00	104.00		Broken core; minor gouge; pervasive K-spar; tr cpy with hemitite									41	44	41			41		41
104.00	106.00		SAA;									41	44	41			41		41
106.00	108.00		Strongly broken; low recovery; higher sericite; low K-spar									41	41	44		32	42		41
108.00	110.00		Moderately broken core; pervasive K-spar;									41	44	42			41		41
110.00	112.00		SAA; broken core; moderate K-spar									41	43	42			41		41
112.00	114.00		SAA									41	43	42			41		41
114.00	116.00		SAA; tr cpy @ 112.3; increased bio mafic phenos starting @ 115									41	43	42			41		41
116.00	118.00		SAA; pervasive k-spar alt stops at 118.5									41	43	42			41		41
118.00	120.00		Low altered qtz diorite									41	41	41			41		41
120.00	122.00		SAA:									41	41	41			41		41
122.00	124.00		SAA; 40 cm gouge @ 123 to 123.4, mod brkn 123.4-124.0									41	41	42			41		42
124.00	126.00		SAA; moderately broken, minor gouge on fracts									41	41	42			41		42
126.00	128.00		SAA, moderately-strongly brkn, minor gouge on fracts, mod-strong gouge @ 126.9-127.4 m									41	41	42			41		42
128.00	129.90		SAA, moderately-strongly brkn, minor gouge on fracts, EOH									41	41	42			41		42

R06-05

From (m)	To (m)	Recovered (m)	RQD Recovery (m)	Recovery (%)	RQD
18.29	20.42	0.63	0.00	30%	0.00
20.42	23.47	1.27	0.00	42%	0.00
23.47	26.52	1.03	0.18	34%	0.17
26.52	29.57	0.92	0.12	30%	0.13
29.57	32.61	0.56	0.00	18%	0.00
32.61	35.66	2.35	0.57	77%	0.24
35.66	38.71	0.90	0.00	30%	0.00
38.71	41.76	1.40	0.29	46%	0.21
41.76	44.80	1.64	0.15	54%	0.09
44.80	47.85	2.30	0.23	75%	0.10
47.85	50.90	2.07	0.30	68%	0.14
50.90	53.90	1.80	0.55	60%	0.31
53.90	56.57	1.16	0.00	43%	0.00
56.57	60.05	2.30	0.73	66%	0.32
60.05	63.10	2.90	2.46	95%	0.85
63.10	66.14	2.90	1.10	95%	0.38
66.14	69.19	1.67	0.40	55%	0.24
69.19	72.24	2.90	1.05	95%	0.36
72.24	75.28	1.20	0.12	39%	0.10
75.28	78.33	1.45	0.00	48%	0.00
78.33	81.38	2.25	0.77	74%	0.34
81.38	84.42	1.48	0.27	49%	0.18
84.42	87.47	2.27	0.16	74%	0.07
87.47	90.52	1.92	0.77	63%	0.40
90.52	93.57	1.36	0.00	45%	0.00
93.57	96.62	1.74	0.12	57%	0.07
96.62	99.66	1.80	0.75	59%	0.42
99.66	102.71	2.19	0.43	72%	0.20
102.71	105.76	2.72	0.23	89%	0.08
105.76	108.81	1.42	0.17	47%	0.12
108.81	111.86	2.19	0.54	72%	0.25

From (m)	To (m)	Sample No.	Description	Mineralization							Alteration							
											sil	pot	ser	musc	clay	iron	carb	chlor
			General description: There appears to be no change in primary lithology. Primary lithology is +/- obliterated by strong to intensive quartz, carbonate, sericite, chlorite and clay mineral bearing alteration (variable alteration, variably intense), frequently asociated with strong - intense bleaching. The distribution and abundance of the various alteration minerals is variable from patchy - pervasive or occuring as fracture halos, changes are genereally gradual, rarely abrupt. There is a general trend, with the degree of alteration decreasing downwards very slowly: with subsections displaying discrete primay textures around 90 m. It may b important to note, that within the dense and pale bleached subsections it is very difficult to estimate mineral contents.																
23.47	24.00		Moderately to intensively, clay?-, quartz-, carbonate- and sericite bearing rock, with primary textures +/- obliterated by alteration. From 23.6 to 24.0 irregular, variably orientated white pinkish, quartz- and carbonate (rhodochrosite?) beraing veins, up to several cm wide. Sub cm to sevral cm wide gouged subsecions. Blebby quartz greading into poorly defined veins/ veinlets. Fractures preferrably step and @ 55 deg to CA. Bleached.								42,13		43		42,32	31	41,23	42
24.00	26.00		Similar to previous interval, but intensively fractured core grading into gouge. Fracture planes prefferably orientated steep and subparallel (slickensides) to CA (drilling down fracture). Kompetent core from 25.9 to 26 m.								42		43		43	41	41	41
26.00	28.00		Similar/ same as "23.47 to 24", more kompetent and less fractured than previous interval. Dm wide gouged section at 26.5 m. Abundant blebby quartz and variabl orientated, partially patchy and 5 % variably orientated quartz- +/- carbonate bearing veinslets/ veins. At 26.9 cm wide qurtz- and carbonate bearing veinlet @ steep angle to CA. Bleached								43		43		11,42	31	43,22	41
28.00	30.00		From 28 to 28.5 same as previous. From 28.5 to 29 moderately gouged, assocviated with colour change from cream - apple green - pinkish to light olive green grey, presumably associated with increasing chlorite. Downwards decreasing silicification, alteration and bleaching, faintly developed primary textures.								42		42		41	31	41	41
30.00	32.00		Similar to "23.47 - 28.0", but with dirty olive green grey appearance, based on increased chlorite content. Blebby quartz and minor carbonate. Lack of primary textures. Intensively fractured with narrow clayey gouge from 30.8 to 31.5.								43		32	41	32	31	41	42,12
32.00	34.00		Same a previous interval from 32 to 33 m. Colour change to pale cream - beige (primary textures entirely lacking) at 33 m. Clayey gouge with minor carbonate from 33.5 to 34 m. Carbonate- and hematite bearing veinlet @ 40 deg to CA at 33.4 m.								32		42	41	33	31	41	32
34.00	36.00		Same, dense, pale material as 33 to 34 m. Intensivley broken core and up to several dm wide gouge sections from 34 to 35 m. Indications of a.m. carbonate- hematite veins. Few sub cm to > cm wide, variably orientated quartz- +/- carbonate veins								42		31		33	31	21,41	
36.00	38.00		Similar to 30 to 33 m: Primary textures obliterated by quartz-, chlorite-, sericite bearing alteration. 1 cm carbonate- hematit vein @ 60 deg to CA. Quartz =/- carbonate veins rarely > cm, predom @ steep angl to CA. Chlorite veinlets. Pale green clayey gouge from 37.6 to 37.8 m.								43		32		32		41,22	32
38.00	40.00		Continuation of previous, downwards grading into cream coloured, pale bleached, dense material as described before, but with prominent sericite bearing patches. Intensivlez fractured core from 38 to 38.7 m: clayey gouge from 38.7 to 39 m. Carbonate- hematite veinlet at 39.5 m.								32		32		32	31	41,21	31
40.00	42.00		Continuation of previous interval, with chlorite, blebby quartz and sericite bearing subsection (as described before) from 40.5 to 41 m.								33		32	41	21	31	41	32
42.00	44.00		Cream coloured, pale bleached, dense material without primary textures, as described before with asociated with dirty green chlorite bearing patches (halos around chlorite veinlets, predom @ 60 deg to CA. Clayey gouge from 43.2 to 43.4 m								33		32		32		21,41	32
44.00	46.00		Same as previous, from 45 m downwards strongly - intensivelz fractured with narrow clayey gouged subsections.Vuggy, cm wide, quartz- carbonate vein @ 30 deg to CA at 45.3 m. Locally accesory, metallic, submm sized specks, +/- with red halos: Hematite and/ or bornite?								32		32	41	23	31	22,41	31
46.00	48.00		Continuation of previous interval, chlorite bearing patches grading into subsections.								42		42		22	31	22,41	32
48.00	50.00		Same as prevous interval. Strongly to intensively fractured core from 51 to 52 m with several narrow (cm scale) clayey, +/- carbonate and chlorite bearing gouged subsections, at 49.7 with remnants of cm wide quartz-, carbonate-, chlorite vein.								42		42		22	31	22,41	32

From (m)	To (m)	Sample No.		Mineralization							Alteration							
											sil	pot	ser	musc	clay	iron	carb	chlor
50.00	52.00		Same as previous. Patchy clay alteration. Several cm clayey ductile fault gauge overlying fracture plane @ 70 deg to CA.								42		42		22	31	22,41	31
52.00	54.00		Sam as previous. Dense. Minor clayey gouge, asociated with cm wide quartz- carbonate vein 40 deg @ 43.7								42		42		22	31	22,41	31
54.00	56.00		SAA; minor gouge @ 55.6								42		42		22	31	22,41	31
56.00	58.00		SAA; increasing patchy chl; minor gouge @57.4;								42		42		22	31	22	31
58.00	60.00		SAA; minor gouge @ 58.8, 60								42		42		22	31	22	42
60.00	62.00		SAA; increasing sericite; qtz blebs; minor gouge 60.5								42		32		22		21	42
62.00	64.00		SAA; decreasing chl; clay gorge @ 61.9;carb-Fe veinlets steep @ 63.5								43		32			22	42	41
64.00	66.00		SAA; irregular patchy qtz-carb veinlets up 1cm 3%;								43		33		11	31	22	41
66.00	68.00		SAA; modeate gouge 67.2 to 67.5; 4cm wide qtz-carb vein 66.25 @ 60; sericite envelope; carb-Fe vein + clay @ 67.7								33		33		32	41	32	42
68.00	70.00		SAA; 68 carb-Fe withinclay and sericite envelope; incresing broken core								32		33		32		41	41
70.00	72.00		Same as previous. Quartz blebbs, patchy chlorite. Few scattered sericite bearing envelopes around hematite- and carbonate bearing veinlets (for example at 72 m) @ variable orientation to CA. Minor clayey gouge from 70 to 70.2 m.								43	31	21		22	21	22	32
72.00	74.00		Same a previous. Locally very minor gouge. Slightly increasing patchy sericite, associated with hematite and carbonate bearing veinlet at 73.2 m. Very slightly increasing k-spar alteration.								43	31	21		21	21	22	32
74.00	76.00		Same a previous. Few scattered hematite- carboante veins, +/- 5 mm wide, prefferably @ teep angel to CA. Decreasing chlorite and significantly increasing patchy sericite. Slightly decreasing silicifiction								32		32	41	22	21	21	31
76.00	78.00		Same as previous, but discrete primary textures from 76 to 77, downwards grading into dense appearing sericite and quartz bearing altered material.								42	31	31	41	21		22	31
78.00	80.00		Continaution of previous. 3 cm clayey and strongly carbonate bearin gouge at 78 m @ 70 deg to CA. Minor patchy K-spar.								32	31	42		21		22	41
80.00	82.00		Same as before. Dense, pale cream, strongly bleached. Clay bearing alteration? Carboante- hematite vein @ 50 deg to CA at 81 m. Few scattered hematite bearing specks.5 cm quartz vein with several dm wide strongly sericite- and clay bearing halo (grading into gouge along contact plane) at 81.9 m.								43		33	41	32		41	31
82.00	84.00		Same as before. Increasing carboante content, both disseminated and white carboante veins < 4 cm: At 83.4 @ steep angle to CA, near clayey, ductile, cm wide gouge zone with same orientation								42		43		22		23,42	31
84.00	86.00		Same as before. Increasing disseminated chlorite. 5 cm gouge underlying hematite carboant veinlet @ 70 deg to CA at 84.2 m. Scatterd carbonate- hematite veinlets up to several mm, @ 60 to 70 dg to CA.								42	31	33		22		41	32
86.00	88.00		Same as before. 6 cm quartz carboan t vein @ 60 deg to CA at 86.7 m wih minorly hematite bearing seam. Fe scatterd hematite- carboante veins prefferably @ +/- 60 deg to CA. Small subsections with faint primary textures.								42	31	32		22		31	31
88.00	90.00		Discrete primary textures throughout this interval: Quartz bering diorite. Weak - very weak chlorite- and sericite bearing alteration. At 89.8 m a > 5 cm wide orange red k-spar bearing dike or vein underlain by moderately to strongly sericite alterd material.								41	41, 11	31	41				41
90.00	92.00		Continuation of previous. Downwards decreasing sericite bearing alteration. Fresh appearance from 91.3 m downwards.								41	31	31	41				
92.00	94.00		Same as previous. Downwards slightly increasing, pachty sericite bearing alteration. At 93.9 5 mm hematite- carboante vein @ 70 deg to CA with dm wide sericite bearing alteration halo.								41	31	31	41				
94.00	96.00		Continuation of previous. From 95 m downwards increasing sericite bearing alteration obliterating primar textures. K-spar bearing patches. Trace epidote.								31	31	31	41			21	31
96.00	98.00		Same as previous. Sericite-, +/- quartz, +/- carbonate, +/- clay, +/- chlorit bearing alteration obliterate primary textures. Sericite an clay (locally grading into narrow gouged bands) preferably in > dm alteration halos around scattered several mm wide carboante hematite veins @ 60 - 70 deg to CA.								31	31	33	41	22		31,21	41
98.00	100.00		From 98 to 99.1 same as previous. At 99.1 6 cm quartz vein underlain by highly clay bearing, carbonate bearing moderately to strongly gouged material.								31		33	41	33		33	31
100.00	102.00		Starting @ 99.0m fault gouge zone/fault breccia; bleached and altered predominately to clay;small qtz veining trend 50 to 60 deg; high sericite; sections of low core recovery.								41		44		43	22		41
102.00	104.00		SAA; fault zone ends @ 103.4: folled by broken core .5 to 1.0 cm hem-carb veinlets								42	41	43		43	33	31	42
104.00	106.00		SAA; broken core; low recovery; low Fe															
106.00	108.00		Moderately broken; low K-spar; sericite; low clay								41	41	42					42

				Mineralization							Alteration							
From (m)	To (m)	Sample No.									sil	pot	ser	musc	clay	iron	carb	chlor
108.00	110.00		Core Missing; no recovery															
110.00	112.00		Core Missing; no recovery															
112.00	114.00		Moderately altered; 2.0cm vein @ 113.2; 40 deg Fe filled bounded by carb;								42	41	42			23	23	42
114.00	116.00		Starting @ 113.7m to 114.4 gouge zone; bleached and altered predominately to clay, minor groundmass epidote @115.5-								41	41	42			22		42
116.00	118.00		Low alteration; consisting weak to mod broken; low chl; low sericite; low K-spar; no clay								41	41	42					42
118.00	120.00		SAA;								41	41	42					42
120.00	122.00		SAA; 120. 6 K-spar envelope 6cm wide								41	41	41					42
122.00	124.00		SAA; lessor alteration; @123.6 stronger alt, mainly sericite, chl;								41	41	41					42
124.00	126.00		SAA; Stronger @ 124.8 silica & sericite flooding; slightly higher clay/carb; 125 to 125.7 high Qtz within gouge								43	41	43		33			42
126.00	128.00		SAA; broken core;mod alt qtz; sericite; chl; 127.5 to 128 patchy clay; Fe veinlets; clay alt								41	42	42			22		42
128.00	130.00		Moderately alteration with bands of higher clay alt and assoc K-spar envelopes								41	42	42		42			42
130.00	132.00		SAA; 130.4 to 130.7 sericite gouge zone;minor qtz/carb veinlets mm; moderately broken								41	41	42		23			42
132.00	134.00		SAA; 133.6 10cm gouge zone								41	41	42		42			42
134.00	136.00		SAA; 134.1 chl/epidote veinlet; 135 on broken core								41	41	42		42			42
136.00	138.00		Less altered, whole core								41	41	41		0			41
138.00	140.00		Low alteration minor bleached 15cm @ 139.5 to 139.6 minor Fe/carb								41	41	41		0			41
140.00	142.00		Pervasive low alteration								41	41	41		0			41
142.00	144.00		Pervasive low alteration								41	41	41		0			41
144.00	146.00		Pervasive low alteration; slight increase in sericite from 145.5 to 146								41	41	41		0			41
146.00	148.00		Increased alteration; patchy K-spar; sericite; minor qtz veining								42	42	42		42	21		42
148.00	150.00		Increased alteration to near gouge; mainly sericite; clay; minor Fe veinlets; ends at 149.5								41		43		43	21		41
150.00	152.00		Pervasive low alteration; 151.3 to 151.6 sericite/clay gouge; bleached to 152								41	41	41		0			41
152.00	154.00		Pervasive low alteration; slight increase in sericite and chl alt								41	41	42		0			42
154.00	156.00		SAA; with gradational zones of higher sericite and chl alt								41	41	43		0			42
156.00	158.00		SAA; slight increase in alt; more broken; minor clay on fractures								41	41	43		0			42
158.00	160.00		SAA; broken core; sericite gouge zones; weak patchy K-spar								41	41	43		0			41
162.00	164.00		SAA; broken core; intermittent sericite/clay gouge zones; otherwise low-mod alt; weak K-spar; minor Fe 1 - 2 mm veinlets								41	41	43		0			42
164.00	166.00		SAA								41	41	43		0			42
166.00	168.00		SAA								41	41	43		0			42
168.00	170.00		SAA								41	41	43		0			42
170.00	172.00		SAA								41	41	43		0			42
172.00	173.80		SAA								41	41	43		0			42
			END OF HOLE 06-06															

From (m)	To (m)	Recovered (m)	RQD Recovery (m)	Recovery (%)	RQD
23.47	26.52	2.54	0.68	83%	0.27
26.52	29.57	2.73	1.45	90%	0.53
29.57	32.61	2.50	0.39	82%	0.16
32.61	35.66	2.10	0.10	69%	0.05
35.66	38.70	2.20	0.81	72%	0.37
38.70	41.76	2.74	0.93	90%	0.34
41.76	44.80	2.20	0.49	72%	0.22
44.80	47.85	2.57	0.11	84%	0.04
47.85	50.90	2.54	0.25	83%	0.10
50.90	53.95	2.69	0.52	88%	0.19
53.95	57.00	2.77	1.14	91%	0.41
57.00	60.04	2.64	0.40	87%	0.15
60.04	63.09	2.55	0.42	84%	0.16
63.09	66.14	2.87	1.83	94%	0.64
66.14	69.19	2.93	1.27	96%	0.43
69.19	72.24	2.43	0.27	80%	0.11
72.24	75.29	2.39	0.61	78%	0.26
75.29	78.33	2.47	0.71	81%	0.29
78.33	81.38	2.72	1.22	89%	0.45
81.38	84.43	2.57	1.27	84%	0.49
84.33	87.48	2.81	1.95	89%	0.69
87.48	90.53	2.57	1.01	84%	0.39
90.53	93.57	2.76	1.80	91%	0.65
93.57	96.62	2.58	1.24	85%	0.48
96.62	99.67	2.76	1.54	90%	0.56
99.67	102.72	1.44	0.00	47%	0.00
102.74	105.77	2.05	0.00	68%	0.00
105.77	108.81	2.23	0.28	73%	0.13
108.81	112.17	0.10	0.00	3%	0.00
112.17	114.91	2.29	0.60	84%	0.26
114.91	117.96	2.43	0.72	80%	0.30
117.96	121.00	2.70	1.55	89%	0.57
121.00	124.05	2.75	1.06	90%	0.39
124.05	127.10	2.58	0.76	85%	0.29
127.10	130.15	2.60	1.19	85%	0.46
130.15	133.20	2.18	0.32	71%	0.15
133.20	136.29	2.30	0.47	74%	0.20
136.29	139.29	2.76	1.54	98%	0.56
139.29	142.34	2.99	1.52	98%	0.51
142.34	145.39	2.80	2.08	100%	0.74
145.39	148.44	2.64	0.67	98%	0.25
148.44	151.49	2.84	1.08	98%	0.38

From (m)	To (m)	Recovered (m)	RQD Recovery (m)	Recovery (%)	RQD
151.49	154.53	2.42	0.57	90%	0.24
154.53	157.58	2.70	0.61	98%	0.23
157.58	160.63	2.41	0.52	85%	0.22
160.63	163.68	2.27	0.21	95%	0.09
163.68	166.80	1.89	0.31	80%	0.16
166.80	169.80	2.45	0.00	98%	0.00
169.80	172.90	2.63	0.47	95%	0.18
172.90	173.80	0.48	0.00	67%	0.00
	END OF HOLE 06-06				

From (m)	To (m)	Sample No.	General description: From 12.2 to approx 66 m, there appears to be no change in primary lithology. Primary lithology is +/- obliterated by strong to intensive quartz, carbonate, sericite,	Lith	Mineralization							Alteration: sil	pot	ser	musc	clay	iron	carb	chlor
12.20	14.00		Strongly to intensively fractured core. Primary textured obliterated by alteratrion; patchy sercite and clay alteration locally grade into into minor clay gouge zone; quartz blebs. Minor, scattered hematite specs. Prominent iron oxide coating on fracture planes.									42		32	41		41	41	1
14.00	16.00		Same as before, > 50 % core loss, strongly - intensively fractured core. Locally cm spaced, carbonate bearing hairline veinlets.									32		32	21	11	41	41	31
16.00	18.00		Same as before, > 50 % core loss, strongly to intensively fractured core.. Pinkish, iron oxide bearing patches. Patches with chlorite alterd mafics.									2		32	41	41	32	31	31
18.00	20.00		Same as before, > 50 % core loss, subsections with intenively fractured core. Increasing hematite coating on fracture planes, heamtite bearing hairline veinlets. Locally cm spaced +/- carboante bearing quartz hairline veinlets.									33		32	41	41	22	31	31
20.00	22.00		Same as before, slightly decreasing fracturing. Subsections with quartz-, carboante veinlets, rarely > mm width. Iron oxide coated fracture planes, locally with mm scale, irregular hematitic halos.									42		33	41		2	41	
22.00	24.00		Same as previous, strong fracturing, with increasing chlorite, patchy, irregular iron oxide bearing patches, decreasing hematite specks, dm wide clayey, carbonate bearing gouge at 23.5 m									42		42	41	32	31	41	31
24.00	26.00		Continuation of previous, strong fracturing, beige pale bleached patches									42		42			41	41	31
26.00	28.00		Continuation of previous. > 50 % core loss. Fracturing intense, within subsections. Subsections with prominent hematite staining on fracture planes. Increasing hematite specs, iron oxid coloured patches, chlorite alterd mafics, trace epidote									42		42			31	41	32
28.00	30.00		Same as previous; > 50 % core loss. Intenively fractured core. Decreasing hematite and chlorite, increasing sericite and quartz. Minor sericitic gouge at 29.6 m.									3		42	1	21		1	
30.00	32.00		Same as previous, > 50 % core loss. Decreasing fracturing. Hematite specks, hematite bearing hairline veinlets, minor hematite on fracture planes and patches. Quartz blebs. Locally trace epidote									43		42	41		1	41	
32.00	36.00		> 50 % core loss. From 32 to 32, 6 same as previous, from 32, 6 to 36 increasing fracturing, increasing sericite, clay, bleaching. Up to several cm wide clayey, gouged subsections. Minor hematite specs.									32		33		33	31	41	
36.00	38.00		Same as previous; From 36 to 36.7 kompetent core, bleached, sericite bearing, decreasing clay. From 36.7 to 38 clayey, ductile - fine gravely gouge.											43		33		1	
38.00	40.00		> 75 % core loss. Strongly broken core. From 38 to 38, 6 a.m. gouge. From 28.6 to 38.7 highly clay bearing pale cream material, grading into increasingly sericitic material.									31		32		33	1	1	
40.00	42.00		> 75 % core loss.Sericitic material a before grades from 41.6 to 42 weakly pink (K-spar, iron) - cream bleached clay? and sericite bearing material. Intensively fractured core. Loclly hematite specks +/- trace sulphides																
42.00	44.00		> 50 % lost core, strongly, locally intensively fractured. Pale cream (clay) - pinkish (K-spar, iron oxide) mottled. Minor patchy sericite.										33	31		33	31?	1	
44.00	46.00		> 50 %`lost core. From 44 to 44.8 pale cream bleached (clay, +/- sericite) gravely broken core and gouge. From 44.8 to 46 strongly - intensively broken core, clay downwards decreasing, sericite and quartz blebes downwards increasing. Remnants of iron oxide bearing veinlets? From 45. 2 to 46 sericite and quartz blebs as before +/- mottled K-spar? (orange specs - mottled). Prominent fractures @ 30 - 40 deg to CA.									32	31	32		34		1	
46.00	48.00		> 75 % core loss; intnsively gravely broken core. Continuation of previous, with highly clay bearing? cream pale bleached patch. Quartz blebs locally grading into weak flooding									32	31	1		32		1	
48.00	52.00		> 75 % lost core, strongly to intensively fractured core.Same as previous: Mottled K-spar , quartz blebs and patchy clay and sericite. Trace to minor chlorite.minor qtz+/- carb vnlts									32	31	32		32	31	41	1
52.00	54.00		Fracturing decreasing to strong, intensive within subsections. Clayey, ductile gouge from 52.2 to 52. 7. From 52.7 to 53.5, significant increase in chlorite with quartz blebs. From 53. 5 to 54 increasing bleaching, and sericite with moderate, pervasive silicification.									32	41	32	31	32		41	32
54.00	56.00		Same a before, patchy chlorite and sericite, locally very minor patchy clay. +/- pervasive, moderate silicification. Slightly decreased fracturing. Minor mottled K-spar scatterd throughout.									43	41	32		31		1	1
56.00	58.00		Same as previous. Lost core from 56.7 to 57.6. Locally minor, patchy FE-oxides, Quartz-, +/- carbonate- hematite hairline vinlets @` 60 deg to CA. Variably orientated fractures, slightly prefferred @ 40 - 60 deg to CA, crosscutting.									43	41	32		31	1	1	32

From (m)	To (m)	Sample No.	General description: From 12.2 to approx 66 m, there appears to be no change in primary lithology. Primary lithology is +/- obliterated by strong to intensive quartz, carbonate, sericite,	Lith	Mineralization							Alteration sil	pot	ser	musc	clay	iron	carb	chlor
58.00	60.00		Same as previous, downwards decreasing chlorite and increasing sericite and clay, associated with increasing fracturing and minor, narrow gouged zones and decreasing K-spar.. Hematite coating on fracture planes @ 30 - 40 deg to CA, croscutting. From 59.8 to 60 soft and pale bleached material (clay), displays highly hematite bearing hairline veinlets @ 50 - 60 deg to CA and grades into minor clayey gouge.									32		32	41	33	22	1	31
60.00	62.00		From 60.0 to 60.2 continuation of clayey, hematitic patch, underlain by 20 cm quartz, serecite patch and downwards grading into strongly clayey, sericitic and patchy siliceous material, intensively fractured with intermittent, clayey, gouged zones. From 61.8 to 62 remnants of hematite bearing hairline veinlets and < 3 cm, zoned quartz- carbonate hematite veins @ 50 deg? to CA.									32		32			33	1	
62.00	64.00		> 50 % lost core, locally strongly - intensively fractured. From 62 to 63 decreasing clay and fraturing grading into siliceous(quartz blebs - pervaive), +/- sericite, +/- chlorite bearing material.At 63 m > 4 cm highly hematite bearing vein @ 60 deg to CA (slickensides). From 63 to 64 dirty disseminated Fe-oxides and rusty coated fracture planes. Locally sheeted quartz-, carbonate veinlet @ subparallel to CA.									33		32		31	22	42	31
64.00	66.00		Continuation of previous, with 8 cm moderately gouged, sericitic, moderately quartz- and carbonate bearnig gouge at 60.1 @ 70 deg to CA. From 60.1 to 66 decreasing alteration (as described before) and increasingly discrete primary textures of a medium grained weakly K-spar bearing, quartz bearing diorite as described before.									1	1	1		1			1
66.00	108.20		Medium grained, quartz- and minor K-spar bearing diorite. Very fresh subsections alternate with minorly sericite and chlorite (chloritised mafics) bearing subsections. K-spar is diseminated, locally < 3 cm wide dense, masive, K-spar bearing veins with variable orientation, preferrably @ steep angle to CA. Locally pink, soft, variably orientated (subparallel to 50 deg to CA), sub mm to several mm wide +/- carbonate-, gypsum_?, ankerite-?, K-spar-? bearing veinlets amount to << % range. Subsectons with trace epidote (veinlets and disseminated). Very minor quartz- and or carbonate veining/ veinlets. At 93.8 chalcicite and bornite bearing hairline veinlet @ 50 deg to CA. At 94.7 chalcicite-, bornite spec along hairline crack @ 30 deg to CA. From 72 m (minor sandy, hematite bearing gouge) to 75.3 m (very minor hematite bearing gouge) intensively broken core, > 3 m core loss and weak sericite- and chlorite bearing alteration. Clayey ductile, fault gouge from 99.8 to 100.2, asociated with fracturing subparallel to CA; from 105.1 to 105.4 intensively fractured core, locally few cm wide gouged zones, associated w									1	1	1		1			1
	E O H																		

R06-07

From (m)	To (m)	Recovered (m)	RQD Recovery (m)	Recovery (%)	RQD
12.2	14.3	0.82	0	39%	0.00
14.3	17.4	0.91	0.18	29%	0.20
17.4	18.9	1.19	0.11	79%	0.09
18.9	20.4	0.99	0	66%	0.00
20.4	22.1	1.26	0.1	74%	0.08
22.1	23.5	1.03	0.21	74%	0.20
23.5	25.5	0.77	0	39%	0.00
25.5	26.5	0.92	0.14	92%	0.15
26.5	29.6	1.47	0.3	47%	0.20
29.6	32.6	1.58	0.34	53%	0.22
32.6	35.7	1.43	0.33	46%	0.23
35.7	38.7	1.3	0.41	43%	0.32
38.7	41.8	0.68	0	22%	0.00
41.8	44.8	1.87	0.15	62%	0.08
44.80	47.85	1.05	0.12	34%	0.11
47.85	50.90	0.38	0.00	12%	0.00
50.90	52.58	0.99	0.00	59%	0.00
52.58	53.49	0.53	0.13	58%	0.25
53.49	54.71	1.14	0.26	93%	0.23
54.71	55.02	0.28	0.00	90%	0.00
55.02	56.69	1.34	0.45	80%	0.34
56.69	57.61	0.15	0.00	16%	0.00
57.61	60.05	1.67	0.40	68%	0.24
60.05	61.57	0.74	0.00	49%	0.00
61.57	63.09	0.88	0.18	58%	0.20
63.09	64.77	0.69	0.00	41%	0.00
64.77	66.14	1.04	0.11	76%	0.11
66.14	69.19	2.55	1.58	84%	0.62
69.19	72.24	2.11	1.20	69%	0.57
72.24	75.28	0.37	0.11	12%	0.30
75.28	78.33	2.35	1.23	77%	0.52
78.33	81.40	2.93	1.42	95%	0.48
81.40	84.50	2.60	1.13	84%	0.43
84.50	87.50	2.66	0.92	89%	0.35
87.50	90.50	2.29	1.01	76%	0.44
90.50	93.60	2.06	0.90	66%	0.44
93.60	96.60	2.35	0.33	78%	0.14
96.60	99.70	2.11	0.70	68%	0.33
99.70	102.70	2.23	1.10	74%	0.49
102.70	105.80	2.16	0.49	70%	0.23
105.80	108.20	2.18	0.66	91%	0.30

From (m)	To (m)	Sample No.		Lith	Mineralization							Alteration							
												sil	pot	ser	musc	clay	iron	carb	chlor
			General description: There appears to be no change in primary lithology. Primary lithology is +/- obliterated by strong to intensive quartz, carbonate, sericite, chlorite and clay mineral bearing alteration (variable alteration, variably intense), frequently asociated with strong - intense bleaching. The distribution and abundance of the various alteration minerals is variable from patchy - pervasive or occuring as fracture halos, changes are genereally gradual, rarely abrupt. There is a general trend, with the degree of alteration decreasing downwards very slowly: with subsections displaying discrete primay textures around 90 m. It may be important to note, that within the dense and pale bleached subsections it is very difficult to estimate mineral contents.																
9.10	12.00		Subsections with strongly broken core. Moderate alteration obliterating primary intrusive textures, k-spar, chlor, seric,clay qtz blebs +/- carb, fracts @ 50 to c. axis, k-spar as diffuse patchy areas									42		43	41	22		41	42
12.00	14.00		SAA; 5 cm gouge zone @ 134.0 m underlain 1 cm k-spar vnlt @ 20 deg to ca, @13.9 m: 5 mm hem-carb vnlt @ 60 deg to c.a.									42		43	41	21	32	21	42
14.00	16.00		10 cm gouge zone 14.1m, 5 cm gouge, 40 deg @ 14.6; 4 cm qtz cb vnlt(4 cm) @15.4 m									42		43	41	21	32	42	41
16.00	18.00		SAA; slight increase in hematite, carbonate, pinkish patchy areas possibly ankerite w. associated specularite increase									42		43	41	21	32	42	41
18.00	20.00		SAA; 20 cm gouge @18.3 enveloping 2 cm qtz-cb-hem vn,@ 50 deg to c.a., decrease in pinkish patchy ank									42		43	41	21	32	41	41
20.00	22.00		SAA, 8 cm gouge @ 30 deg to c.a, @`21 m, 1 cm qtz-cb-hem vnlt @ 21.6 @ 50 deg to c.a, slight chlor increase									42		43	41	21	31	42	42
22.00	24.00		SAA; greater than 50% core loss, minor gouge associated w.1 cm cb vnlts @ 23.4 m									42		43	41	21	31	42	42
24.00	26.00		SAA									42		43	41	21	31	42	42
26.00	28.00		SAA; qtz flooding 26.0-26.3, increased specularite blebs, 27.2-27.4: seric clay+/- cb gouge: specularite blebs w. possible chalcocite @ 28.0 m									42		42	41	22	32	42	42
28.00	30.00		SAA; qtz flooded patches, 29.0-29.2 , minor qtz-cb vnlts to 1 cm, steep angles									43		42	41	21	31	42	41
30.00	32.00		SAA: patchy silic'n, increased pinkish patchy ank, 31.5-31.7 fract/gouge zone, increased (~3%) dissem hem blebs, pinkish patches assoc w increase in hematite, quartz porph texture w. pervasive patchy silica-seric alt'n									43		42	41	21	32	42	41
32.00	34.00		SAA; minor qtz cb vnlts to 2 cm @ 40-60 deg to c.a., fract @ 60 deg to c.a, increasing pinkish patches									42		32		21	32	41	41
34.00	36.00		SAA: pervasive pinkish patches w intervening pale green qtz-seric patches, pinkish patches intimately associated w specularite disseminations									43		32		21	32	41	41
36.00	38.00		SAA: minor qtz-cb vnlts to 2 mm									43		32		21	32	41	41
38.00	40.00		SAA: few qtz +/- cb vnlts to 2 cm @ 50 deg to c.a , increased chlor as halos around qtz vnlts									43		42			31	41	42
40.00	42.00		SAA: qtz-cb-hem, 1 cm @ 50 deg to c.a at 41.3 m, 41.5-42.0 w gouge @41.9-42.0 m (recovery loss through gouge section)									43		42	41	21	31	41	42
42.00	44.00		SAA; <50% recovery, increased pinkish alt'n w distinct primary textures, wkly altered, partially contain previous fault/gouge zone									41		41		11	42	41	31
44.00	46.00		SAA: subsections w strong-intense brkn sections, 45.7-46.0: 4-<1 cm wide qtz-cb vnlts @40- 50 deg to c.a., pervasive pinkish apatches									41		41	41	11	42	41	31
46.00	48.00		SAA: 46.1-46.3 gouge section within fract planes at 50 deg to steep angles, underlain by strong to intensely brkn core									41		41	41	11	42	41	31
48.00	50.00		SAA: increasing pink patches,. Mod-strongly fract'd w. minor gouge on fracts, minor increase in dissem specular hem									41		41	41	11	42	41	31
50.00	52.00		SAA: local; primary textures evisent, pervasive pink patchy areas, minor qtz-cb vnlts, 50.1, 1 cm vnlt @ 20 deg to c.a w. 3 mm bornite bleb									42		42	41	11	42	41	31
52.00	54.00		SAA: increasing seric + clay, decreasing fracts, minor qtz-cb vnts at steep angles, local bands of reddish hem replacing plag phenos, pervasive pinkish alteration decreased									42		42	41	11	43	41	31
54.00	56.00		SAA: slightly decreased seric, perv pale pinkish wash through groundmass, one-1 cm qtz cb vnlt, trc-minor 1 mm qtz cb vnlts w variable orientation									42		42	41	11	43	41	31
56.00	58.00		SAA: minor increase in seric +/- chlor, lesser pinkish patches, minor gouge @ 56.0-56.1 m, wk dissem hem									42		42	41	11	41	41	31
58.00	60.00		SAA, gouge @59.9-60									42		42	41	11	41	41	31
60.00	62.00		SAA: chlor mainly as mafic replacements, minor qtz-cb vnlts at 60 deg to c.a, vnlts locally contain hem blebs, gouge sections @ 62.1-62.2, 63.6-63.7									42		42	41	12	41	41	42
62.00	64.00		SAA: gouge 64.0-64.1, faintly develped primary intrusive textures, decreased seric, increasing silic'n									43		42	41	12	41	41	42
64.00	66.00		SAA: gouge zone @64.0-64.1, decreasing alt'n w faintly developed primary intrusive textures,									43		41	41	11	41		41

						Mineralization						Alteration							
From (m)	To (m)	Sample No.		Lith								sil	pot	ser	musc	clay	iron	carb	chlor
66.00	68.00		SAA: general increase in alteration masking primary textures, minor sporadic pinkish patches, minor qtz-cb vnlts hairline-1 mm, minor hairline hem vnlts, local patchy specularite specs									43		32	41		31	41	42
68.00	70.00		SAA: general increase in alteration masking primary textures, minor sporadic pinkish patches, minor qtz-cb vnlts hairline-1 mm, minor hairline hem vnlts, local patchy specularite specs									43		32	41		31	41	42
70.00	72.00		SAA: ~ 50% core loss, continuous of previous w increased pink patches, 70.3-70.4 two qtz-cb vnlts +/- steep core axis angles w. ~ 20% chalcocite blebs, main recovery loss between 71.0-72.0 m,minor sporad hem specs, clay gouge @ 71.0-72.0									42		42	41		31	41	42
72.00	74.00		SAA: strongly to intensely fract'd grading into 0.5 m gouge sections									31		43	41	33	31	42	41
74.00	76.00		SAA: strongly to intensely brkn w gouge from 74.0-74.3, 74.7-76.0 (w.partial solid pieces 5-10 cms), minor fine born fract fills in gouge (across 5 cms) @75.3 m									31		43	41	34	31	33	41
76.00	78.00		Mottled w blebby qtz, pervasive pinkish patches decreasing down, increased hem patches/blebs @77.6-77.9, gouge 77.9-78.0									43		32	41	21	32	41	42
78.00	80.00		SAA: overall decreased pink patches, @ 79.3, 1 cm patch chalcocite+/- hem +/- bornite, similar appearance to previousloy described hematite specks (end of previous section), increased chlor alt'n @ 78.3-79.3 m, gouge zone @ 79.5-79.6, minor qtz vnlts to 2 mm, blebby qtz texture, pervasive dk gray hem specs throughout									43		32	41	12	32	41	43
80.00	82.00		SAA: minor gouge on fract @ 81.4 m, 82.0 m. Quartz blebs, locally grading into quartz flooded patches. Hematite specks locally grading into irregular, inconsistant hairline veinlets, where minor chalcocite may be displayed.									43		32	41	12	32	41	43
82.00	84.00		SAA, moderately fract'd, decreasing chlor, increase clay in gouge areas: 82-82.2 (l. cont @ 55deg.), 82.4-82.5, 82.8-83.8, overall fracturing 50-70 deg to c.a., partial recovery loss. Decreasing speckled hematite.									42		33	41	33	31	41	31
84.00	86.00		SAA: decrease gouge and clay, subsections w mod. fract'd core, wk localized pink patches, minor hem specs, 1-2 mm									43		43	41	11	31	41	41
86.00	88.00		SAA; minor localized hem specs w. wk assoc pinkish patches, qtz blebby to pervasive silic'n									43		43	41	11	31	41	41
88.00	90.00		SAA to 88.5, from 88.5-90 section contains increased chlorite w increased hematite specs w associated sporadic patches and blebs chalcocite +/- bornite, sporadic pink bands to 10 cms, increased qtz vnlts (3-5%) to 1.0 cm, 0.5 cm msv f.g.chalcocite + qtz band (60 deg) @ 89.1m, 89.1 -89.3: partial gouge (qtz-seric) w. fine fract fillings chalcocite, gouge area is centrally located within chalcocite mineralized zone both above and below gouge area (0.5-0.6 m above and below gouge)									43		42	41	22	33	41	43
90.00	92.00		SAA, stronger chlorite alteration to 90.4 m, @ 90.5 decreasing chorite w. increasing seric and clay, carbonate bearing clay gouge @ 90.7-91.2, minor clay-cb gouge @ 91.6-91.7, perv. silic'n between gouge zones, minor hem specs, qtz texture varies between elongate blebs to vein-like sweats									33		33	41	33	31	42	32
92.00	94.00		SAA @ 92.0-92.9 w increased chlorite w.increased hem specs w. minor qtz +/- cb vnlts to 0.5 cm @ 70 deg to c.a. 92.9-93.6: intensely fract'd w. intermittent gouge, 93.6-94.0 clay ductile cb-bearing pale greenish gray gouge									32		32	41	34	31	32	32
94.00	96.00		SAA: strongly decreased clay, hematite, pervasive silic'n, moderate chlorite alt'd mafics + hem specs, minor pinkish patches, 94.8-95.1: narow gouge zones along variable angle fract planes w qtz+/- cb vnlts @ 50 deg to c.a, < 1 cm widths									43		42	41	11	41	31	41
96.00	98.00		SAA: 96.8-97.8; strongly brkn core, minor clay on fracts, @ 98.0: 1 cm qtz-cb vnlt @70 deg to c.a, decreasing hem specs.									43		42	41	11	41	31	41
98.00	100.00		SAA; overall decreased fracturing @ 99.3 - 3 mm hem vnlt at 50 deg to c.a, 99.7-100: increased fractures w increased seric, wk -mod pink patches									43		42	41	11	41	31	41
100.00	102.00		SAA: mod-strongly fract'd w. local gouge on fracts, wk hem spots									43		42	41	11	41	31	41
102.00	104.00		SAA: mod-strongly broken and fract'd w 30-40% intermittent gouge zones, increased clay and sericite , negligible hem specs									32		43	41	13		31	41
104.00	108.80		Qtz-Plag porphyry, coarse grained, euhedral-subhedral qtz/plag phenos 0.5-1 cm, predominantly pinkish brown to locally greenish tan aphanitic groundmass, plag phenos are preferentially seric alt'd, blebby qyz to perv. silic'n, mod-strongly fract'd w sporadic clay on fracts, strong gouge @ 103.9-104.9 w 30 % solid (<10 cm competent pieces), minor bornite in qtz vnlts @ 105.0-105.3 m, vnlts at variable angles, 1-3 mm, 60 degree u. fract contact @ 104.0m																

						Mineralization						Alteration							
From (m)	To (m)	Sample No.		Lith								sil	pot	ser	musc	clay	iron	carb	chlor
108.80	112.00		SAA (102.0-104.). Increasing sericite, qtz blebs w isolated bright green chlor patches, pervasive pinkish patches, sporadic strongly to intensively brkn sections w. local gouge areas, 108.8 109.3: intensely brkn grading into gouge, minor scattered hem specs, sporadic minor patchy magnetic areas, approx 50 % core loss through interval									32		31	41	12	31	31	41
112.00	114.00		SAA: >50% core loss, gouge @113.8-114.0, strongly brkn w intermittent gouge sections									32		31	41	12	31	41	41
114.00	116.00		SAA, decreased fracturing, decreasing pinkish patches, increasing chlor w decreased clay, decreasing seric, decreasing hem specs, mod clay coatings on fract planes, perv. silic'n									32		31	41	11	31		42
116.00	118.00		SAA, increasing pink patches, qtz blebs locally grading into qtz sweats, 117.8-118, strong pinkish patches w. perv. Qtz flooding, @`116.8 - 5 cm brkn qtz-cb vn w hem specs, @ 116.9 - 1 cm qtz vnlt w. marcasite blebs									33		41	41	11	31	41	41
118.00	120.00		SAA; 50% core loss; section of intensive broken core;increasing qtz blebs; minor scattered qtz; small carb veins;									43		32		11	31	41	32
120.00	122.00		SAA; intensive fractured core; clay/carb gouge 120.8 to 121.4; increasing sericite; 121.7 1cm qtz-carb vein @ 60 deg with calc & bornite specs. Locally minor hematite specks, patchy.At 124.4 > 5 cm quartz, +/- carbonate vein @ 50 deg to CA, with > m wide highly sericitic and clay bearing halo.									43		33		33	32	41	
122.00	124.00		SAA. Increasing alteration: Increasing patchy sericite and quartz flooding.Scattered, +/- dm wide clayey, intensively gouged subsections.									33		33		33	31	42	31
124.00	126.00		SAA;Intensively broken core; decreasing alt; gouge; sil;									42		43		22	31	41	
126.00	128.00		Lost core																
128.00	130.00		Decreasing fracturing; increasing chl; sil pervasive;									43		42	41	11	41	41	41
130.00	132.00		Primary textured obliterated by alteratrion; patchy sercite and clay alt grading into clay gouge zone; qty blebs grading into pervasive qtz flooding; chlorite alt mafics; minor Fe specs increasing to Fe halos; sub sections broken core									43		42	41	22	31	41	42
132.00	134.00		SAA; 133. 1cm hem bearing vein @ 60deg along with Fe envelope (anchorite); 133.7 increaing clay and sericite									43		33		33	22	41	31
134.00	136.00		Primary textured obliterated by alteratrion; patchy sercite and clay alt grading into clay gouge zone; qty blebs grading into pervasive qtz flooding; chlorite alt mafics; minor Fe specs increasing to Fe halos; sub sections broken core									43		42	41	11	31	41	42
136.00	138.00		SAA; 133. 1cm hem bearing vein @ 60deg along with Fe envelope (anchorite); 133.7 increaing clay and sericite; 136.5 and @ 137.0 qtz vein/carb 5cm wide with a gouge halo. Patches with +/- mm sized hematitic specks, +/- trace sulphides									43		33		33	22	41	31
138.00	140.00		SAA; increasingly fractured; decreasing clay; local qtz/carb veins low angle									43		33	41	11	41	41	
140.00	142.00		SAA; increasing clay; increasing Fe grading into veinlets; minor gouge zone									43		33	41	11	22	41	
142.00	144.00		SAA; increasing sericite and clay; halos surrounding 10 cm gouge zones; 143.1 anchorite & 143.7 3cm qtz/carb veins; trace Fe and sulphide									32		33	41	33	42	41	
144.00	146.00		SAA; decreasing clay									32		33	41	32	42	41	
146.00	148.00		SAA; slight increase in clay; small Qtz/Fe veins									32		33	41	32	42	41	
148.00	150.00		SAA; small Qtz/Fe vein @ 149 ; disseminated Fe spec; 149.8 minor gouge zone									32		33	41	32	42	41	
150.00	152.00		SAA; increased fracturing; increasing clay; qtz blebs; gouge zones									32		33	41	32	42	41	
152.00	154.00		SAA.									32		33	41	32	42	41	
154.00	155.10		SAA. < cm wide quartz, carbonate veins @ steep angle to CA with approx 30 cm spacing bear trace to minor chalcocite and bornite. Hematite specks as described before. Quartz blebs									42		33	41	32	41	31	
155.10	176.00		Continuation of drill hole @ 155.1 m (11/1/06): strongly broken, primary textures mainly obliterated by pervasive sericite + quartz alteration, locally with pinkish iron alteration patches , locally narrow sections (10-20 cm) with weak alteration displaying fine-med grain primary k-spar through groundmass, quartz appears as irregular blebs, approx 10-20% intermittent strongly fractured and altered zones (10-20 cms) grading to seicitic gouge , fractures generally oriented at 50-60 degrees to c.a, trc hematite as smears on slickenside surfaces, @157.8m - 3 cm carb vnlt @ 50 deg to c.a , @170.2m- 5 cm qtz +/- carb vn with purplish hem selvages at 50 degrees to c.a , partial recovery from 167.4-176.5m									2		3	1	2	1	1	

					Mineralization							Alteration							
From (m)	To (m)	Sampl e No.		Lith								sil	pot	ser	musc	clay	iron	carb	chlor
176.00	181.10		Predominantly gouge/fault gouge interval: from 176.0 to 177.7m, interval consists of intense pale green ductile sericite + clay gouge with minor inbedded siliceous fragments, from 177.7 to 181.1 m, interval consists of intensely altered (seric), semi-competent rock material containing numerous polished slickenside surfaces (bluish gray) at variable core angles, mainly 20 deg to c.a., locally 70 degrees, sharp lower contact with competent rock at 10-20 degrees to c.a. (contact extends through 20 cms of core interval (180.9-181.1m)											5		3		2	
181.00	187.90		Weakly broken,competent, moderately altered with primary textures mainly obliterated by pervasive salmon colored iron staining/overprint, lesser sporadic patches of pale green quartz-seric alteration, quartz mainly as 0.5-1 cm blebs throughout groundmass, conspicuous 1-3 mm hem blebs throughout, possibly with trace associated chalcocite +/- bornite, minor sporadic qtz +/- carb +/- hem vnlts , 1-3 mm, occasionally 1-3 cms, generally oriented at 30-40 degrees to c.a									2		2			2	1	
187.90	191.30		Similar to previous section with decreased salmon colored iron patches and more prevalent pervasive green seric-quartz flooding, < 1% fine grain dissem hematite specs, 1-2 mm, several purplish qtz-carb-hem vnlts 0.5-1 cm, coincident with general fracturing @ 50 deg to c.a , weakly fractured throughout									3		2			1		
191.30	192.60		Zone of broken quartz fllooding with lesser intervening pale apple green sericite, sporadic gougy fracture zones to 5 cms, wk carbonate in fractures, several fine blebs of bornite with - chalcocite rims noted in quartz across 1-2 cms @ 191.7 m									4		3	2	2		1	
192.60	199.20		Moderate obliteration of primary textures, consistent quartz flooding with decreased sericite from above, mafics and primary k-spar are readily apparent, mafics (mainly biotite) are variably chlotitized, 10-15%, up to 0.5 cm, competent, weakly fractured @ 40-50 degrees to c.a., minor fine grain magnetite, from 198.7 to199.2: increased pervasive sericite alteration surrounding central 5 cm gouge zone at 40 degrees to c.a., rare qtz -carb +/- hem vnlts to 3 mm									3		1					1
199.20	204.00		Quartz diorite, medium grained, fresh, lacking any appreciable alteration, clear intrusive texture with pervasive 1-2% fine grained pink primary k-spar through groundmass, 10-15% variably chloritized biotite books to 0.5 cm, mainly 1-3 mm, <1% fine grained diseminated magnetite, weakly fractured																
	EOH																		

From (m)	To (m)	Recovered (m)	RQD Recovery (m)	Recovery (%)	RQD
9.10	11.30	1.50	0.61	68%	0.41
11.30	14.30	2.63	0.78	88%	0.30
14.30	17.40	2.39	0.88	77%	0.37
17.40	20.40	2.97	1.01	99%	0.34
20.40	23.50	1.71	0.94	55%	0.55
23.50	26.50	1.97	0.94	66%	0.48
26.50	29.60	2.68	1.20	86%	0.45
29.60	32.60	3.23	1.10	108%	0.34
32.60	35.70	2.67	2.14	86%	0.80
35.70	38.70	2.87	1.90	96%	0.66
38.70	41.80	3.03	2.56	98%	0.84
41.80	44.80	1.87	0.65	62%	0.35
44.80	47.90	2.54	0.73	82%	0.29
47.90	50.90	2.37	0.51	79%	0.22
50.90	54.00	2.76	1.56	89%	0.57
54.00	57.00	2.36	0.87	79%	0.37
57.00	60.10	2.35	1.34	76%	0.57
60.10	63.10	2.60	1.65	87%	0.63
63.10	66.20	2.72	1.29	88%	0.47
66.20	69.20	2.91	1.94	97%	0.67
69.20	72.30	2.23	1.45	72%	0.65
72.30	75.30	2.21	0.39	74%	0.18
75.30	78.40	2.17	0.92	70%	0.42
78.40	81.40	2.94	1.61	98%	0.55
81.40	84.50	2.33	0.77	75%	0.33
84.50	87.50	2.04	0.82	68%	0.40
87.50	90.50	2.89	1.98	96%	0.69
90.50	93.60	2.39	0.59	77%	0.25
93.60	96.60	2.60	1.20	87%	0.46
96.60	99.70	2.43	1.43	78%	0.59
99.70	102.70	2.68	0.44	89%	0.16
102.70	105.80	3.45	0.11	111%	0.03
105.80	106.80	2.06	0.00	206%	0.00
106.80	111.90	0.95	0.16	19%	0.17
111.90	114.90	0.93	0.00	31%	0.00
114.90	118.00	2.48	1.01	80%	0.41
118.00	121.00	2.06	0.72	69%	0.35
121.00	124.05	2.37	0.92	78%	0.39
124.05	127.10	1.68	0.00	55%	0.00
127.10	130.15	2.40	0.79	79%	0.33
130.15	133.20	2.68	0.81	88%	0.30
133.20	136.25	2.62	0.83	86%	0.32

From (m)	To (m)	a m		Lith	Alteration							
					sil	pot	ser	musc	clay	iron	carb	chlor
			Med grained intermediate to felsic intrusive. Phenocrysts consist of sub to euhedral fspar laths, subhedral mafic phenocrysts of biotite and hornblende, w/pervasive chloritization, anhedral interstital quartz. Alteration includes fracture related and halo clay, sericite, iron and quartz-carbonate in varying intensity. Patchy weak magnetism persists throughout core in less altered areas. Green sericite after plagioclase grades outward from fracture halos to a weak pervasive alteration of the core. Occasional pseudomorphs of muscovite after biotite occur throughout the core. Fracturing and faulting (gouge) is moderate to intense; fracture orientations vary, but include common recurring steep and 45 degree orientations. Metallic mineralization includes trace amounts of disseminated and qtz veinlet related chalcocite, bornite and chalcopyrite. Quartz and quartz+/- carbonate veinlets <= cm in width occur sporadically at predominantly steep (sometimes 45 deg to CA) orientations.									
0.00	12.20		Overburden/casing									
12.20	36.50		Section is marked by pervasive wk-mod patchy sericite +/- chlor (altered mafics) alt'n generally masking original intrusive rock textures, mod to to strongly brkn and fract'd w localized narrow gouge and tan colored clay aleration halos extending 3-10 cms from fracts, fracts are variably oriented, commonly approx 30-40 deg to core axis, fracts often filled by hairline sericite +/- carb +/- clay, locally w red hematite slickenside surfaces, minor sporadic pinkish patches/ fine interstitial filling/disseminations (iron carbonate?), trace fine dissem specularite; **35.8-36.5:** shear/fault gouge zone, intense seric +clay w. seric +/- hem slickenside sfcs, u. slick contact @ 35 deg to c. axis, lower 10 cms forms a gouge contact w. underlying fresh weak-unaltered quartz diorite		2		2	1	3	1	1	2
36.50	62.60		Unaltered to locally weakly altered medium grained equigranular quartz diorite, competent, wk to mod brkn/fract'd, fracts 40-60 deg to c. axis, pale gray quarto-feldspathic groundmass, ~20% fine disseminated and irregular clots (2-5 mm) of biotite +/- pxn, locally w wk chlor alt'n, mainly wk-mod hairline carb fract fills, 5-10 % interstitial vague pinkish patches/disseminations through groundmass (probable iron carb.), negligible hematite/magnetite spots, negligible gouge development on fracts, localized gouge @ 39.0 m (7 cm), 44.4 (15 cm), 48.2 (10cm w l.cont @ 50 deg) trc sporadic azurite spots within/adjacent to fracts @ 60.0-61.7m			1	1		1		1	1
62.60	72.90		SAA: wk -mod increase in alteration w. local preservation of primary textures, section displays general loss of primary textures with pervasive wk silica and sericite alt'n,. mod brkn w wk hairline carb filings, fracts @ 40-60 deg to c. axis fracts locally w red hem +/- carb, wk pervasive orange-brownish orange iron carbonate patches, <1 % 1-2 mm black-reddish hem spots, minor sporadic chlorite or epidote veinlets/bands hairline to 3mm, @ ~68.6 m : chlor + epidote vnlts across 3 cm @ 60 deg to c.a, @ 70.2 m: patchy and vnlt epid across 13 cm (vnlts @30-60 deg to c.a), sporadic blue azurite spots from 62.7 63.2 m, trc cpy @ 71.2 m.		2		2		1	1	1	2
72.90	75.80		Moderately to strongly broken, locally grading into minor gopuged zones. Pervasive, increasing chlorite and sericite alteration. Trace carbonate and hematite in and around hairline fractures. Quartz blebs throughout. 1 % hematite specs throughout. Indistinct chloritised mafics.		42		42		31	1	1	42

From (m)	To (m)	Recovered (m)	RQD Recovery (m)	Recovery (%)	RQD
136.25	139.29	2.24	1.14	74%	0.51
139.29	142.34	2.21	0.64	72%	0.29
142.34	145.39	2.41	0.57	79%	0.24
145.39	148.44	2.70	0.89	89%	0.33
148.44	151.49	2.60	0.96	85%	0.37
151.49	155.14	2.17	0.57	59%	0.26

From (m)	To (m)	a m		Lith	Alteration							
					sil	pot	ser	musc	clay	iron	carb	chlor
75.80	82.80		Strongly - intensively broken core. From 75.8 and 77.9 50 % lost core. Pale pink to light green to pale cream bleached. Significant increase of clay, grading into clayey, carbonate bearing moderately gouged zones (fracture planes @ 30 - 40 deg to CA with strong slicks): From 77.8 to 79 m pale green, predom sericitic with few scatterd competent pieces. Hematite specs with prominent reddish halos. Locally apparent intrusive texture with weak clay, +/- sericite alteration. Slight increase of Fe-oxides/ iron carbonate.		31		33		34	2	32	
82.80	102.10		Alteration decreasing to generally weak, locally moderate. Primary textures discrete throughout the majority of interval, locally obliterated by alteration. Chloritised mafics and weak patchy sericite, pervasive in subsections. Locally fine interstitial epidote, locally grading into faint patches. Pervasive interstitial K-spar amounts to 3 - 5 %. Minor patchy hematite (at 89.6 to 89.9 pervasive: red hematite through groundmass) and locally (at 93.5) hematite bearing veinlets. Localized bleaching +/- in and around gouged zones: From 82.9 to 83.1; 88.2 to 82.5; 90.9 to 91.6; 97.8 to 98.1 (lower contact @ 20 deg to CA). Variably orientated frature planes with slickensides, preferrably @ 40 deg to CA. Very gradual decrease of alteration downwards, LC +- arbitrary chosen.		31	41	32		32	31	41	41
102.10	168.90		Medium to coarse grained, quartz- and minor K-spar bearing, weakly magnetic (patchy) diorite. < cm sized mafics amount to 10 to 15 % cm sized. Fresh appearing subsections alternate with minorly sericite and chlorite bearing subsections. Locally trace epidote, patchy and/ or in and around minor veinlets. Few scattered, pale orange, soft, +/- carboante bearing, variably orientated veinlets (gypsum? and Fe bearing carbonate). Faintly developed stockwork of carbonate bearing hairline veinlets, locally resulting in shattered appearance. Orientation of fracture plane is variable from steep to subparallel to CA, shallow angles increasing downwards. Strongly - intensively broken, locally with very minor clayey and weakly carbonate bearing gouge from 121 to 124 and 127.1 to 127.7. Overall weakly to moderately broken core.			41	31		31	1	11	41
			From 149.3 to 150.7: intensively broken core and < dm wide clayey to sandy, carbonate bearing gouge. From 152 to `154.6 strongly broken core with < dm to < 40 cm wide gouged zones (from 152.6 to 153 clayey ductile, beige to reddish bvrown, clay mineral?, sericite? and carboante bearing gouge; UC along fracture plane @ 60 deg to CA, LC along fracture plane @ 50 deg to CA?. m wide, weakly epidote bearing halo). From 142.5 to 151.5 locally trace sulphide mineralisation (chalcopyrite, chalcocite, bornite) occuring as sub mm to rarely cm sized specs, part of quartz hairline veinlets. From 151.5 to 168.9 accessorry to trace, disseminated, copper bearing mineralisation replacing mafics.									
	E O H											

From (m)	To (m)	Recovered (m)	RQD Recovery (m)	Recovery (%)	RQD
12.20	14.30	1.30	0.00	62%	0.00
14.30	17.40	1.87	0.20	60%	0.11
17.40	20.40	2.47	0.38	82%	0.15
20.40	23.50	2.48	0.84	80%	0.34
23.50	26.50	2.21	0.62	74%	0.28
26.50	29.60	2.43	0.81	78%	0.33
29.60	32.60	1.81	0.34	60%	0.19
32.60	35.70	2.11	0.20	68%	0.09
35.70	38.70	2.10	0.47	70%	0.22
38.70	41.80	2.09	0.82	67%	0.39
41.80	44.80	2.37	0.42	79%	0.18
44.80	47.90	2.25	0.90	73%	0.40
47.90	50.90	2.88	1.84	96%	0.64
50.90	54.00	2.44	1.07	79%	0.44
54.00	57.00	2.42	0.22	81%	0.09
57.00	60.10	2.24	0.69	72%	0.31
60.10	63.10	2.57	0.49	86%	0.19
63.10	66.20	2.22	0.61	72%	0.27
66.20	69.20	2.40	0.28	80%	0.12
69.20	72.30	2.87	0.90	93%	0.31
72.30	75.30	2.55	0.40	85%	0.16
75.30	78.40	2.02	0.26	65%	0.13
78.40	81.40	2.81	0.30	94%	0.11
81.40	84.50	2.32	0.24	75%	0.10
84.50	87.50	2.48	0.45	83%	0.18
87.50	90.50	1.80	0.38	60%	0.21
90.50	93.60	2.49	0.27	80%	0.11
93.60	96.60	2.74	0.47	91%	0.17
96.60	99.70	2.82	1.00	91%	0.35
99.70	102.70	2.65	0.23	88%	0.09
102.70	105.80	2.81	1.54	91%	0.55
105.80	108.81	2.72	1.75	90%	0.64
108.81	111.86	2.60	1.58	85%	0.61
111.86	114.91	2.64	21.12	87%	8.00
114.91	117.96	2.91	2.21	95%	0.76
117.96	121.00	2.63	1.02	87%	0.39
121.00	124.05	2.45	0.31	80%	0.13
124.05	127.10	2.46	0.89	81%	0.36
127.10	130.15	3.13	1.30	103%	0.42
130.15	133.20	3.07	2.31	101%	0.75
133.20	136.30	2.93	1.31	95%	0.45
136.30	139.30	2.90	2.07	97%	0.71

From (m)	To (m)	Recovered (m)	RQD Recovery (m)	Recovery (%)	RQD
139.30	142.40	2.68	1.30	86%	0.49
142.40	145.40	2.63	0.75	88%	0.29
145.40	148.50	3.06	1.80	99%	0.59
148.50	151.50	2.16	1.21	72%	0.56
151.50	154.60	2.37	0.52	76%	0.22
154.60	157.60	2.51	1.40	84%	0.56
157.60	160.70	2.43	1.80	78%	0.74
160.70	163.70	3.38	2.70	113%	0.80
163.70	166.80	2.71	1.90	87%	0.70
166.80	168.90	1.74	0.94	83%	0.54

From (m)	To (m)	Sample No.		Lith	Mineralization							Alteration							
												sil	pot	ser	musc	clay	iron	carb	chlor
15.24	22.40		Pale grey and black spotted, fine to medium grained, intermediate, quartz bearing? diorite.Trace finely scattered to faintly patchy epidote. Subsections of strongly broken core, locally with very minor gouge (sericite, chlorite? minor carbonate). From 22.3 to 24.4 intensively broken, grading into gouge. Alteration is subtle to entire lacking. Except gouged zones weakly to moderately magnetic throughout.													11			41
22.40	25.80		primary textures obliterated by pervasive quartz sericite alteration and pale gren to cream bleaching. Strongly fractured and broken, with weak to moderate clay and carbonate on fractures. Locally trace hematite, in fractures and pervasive. Accessory qurtz veinlets.									43		42		11	1	11	
25.80	26.70		Transition zone, continuation of previous, with alteration fading out over 40 cm and fresh textures as described at "15.24 - 22.4" from 26.2 to 26.7									32		31					31
26.70	29.50		From 26.7 to to 27 sericitic, minor carbonate bearing gouged zone with two 3 mm to 3 cm wide quartz- carbonate veins (trace hematite) @ 70 deg to CA. From 27 to 29.5 strongly fractured, pale to medium green material. Primary textures obliterated by moderate alteration (sericite, chlorite, +/- carboante). 5 mm quartz carbonate vein subparallel to CA. Locally minor gouge. cm wide, quartz carbonat hematite veins @ 10 - 20 deg to CA amount to < 1 %.											42					
29.50	37.30		Pale grey and black spotted, fine to medium grained, intermediate, quartz bearing? diorite.Trace epidote. From 29.7 to 31 moderately broken core with minor sericite-, carbonate-, +/- trace hematite bearing gouge along fractue plane subparallel to CA. 15 cm gouge (as before) at 37.8 m sandwiched between fractue planes @ 30 deg to CA. Except gouged zones weakly to moderately magnetic throughout.													11			41
37.50	42.80		Very similar to 26.7 - 29.5: From 37.4 to 38.8 pale to medium green, primary textures obliterated by sericite and chlorite bearing alteration. At 38.6 to 38.8 silicification associated with patchy hematite bands und suspected trace native copper associated with hematite. Few mm wide hematite bearing veinlets @ steep angle to CA. From 38.8 to 41 m strongly broken core grading into dm up to > 0.5 m, sericitic, chlorite and weakly carboante beraing gouged zones (38.8 - 39.6, with UC @ 10deg to CA: Locally silicified, hematite bearing core pieces, hematite increasing within last 20 cm of this subsection). From 40.2 to 41: Strongly to intensively fractured core, primary textures obliterated by sericite and chlorite bearing alteration. From 40.4 to 40.6 quartz vein?, quartz flooding? with 20 % patchy and purple red hematite. From 41 to 42.8 subsections of strongly broken core, primary textures obliterated by quartz-, sericite-, and chlorite bearing alteration.									32		32			32		42
42.80	45.20		Pale grey and black spotted, fine to medium grained, intermediate, quartz bearing? diorite. Weakly magnetic throughout. Moderately broken. From 44.8. 45.2 increasing sericite bearing alteration.											31					41
45.20	48.00		Clayey, sericite- chlorite-, minor carbonate- gouge zone with 20 %, < 10 cm competent, strongly altered (sericite) core pieces. UC @ 30 deg to CA, LC @ 30 deg to CA.											43		42		41	42
48.00	71.60		Alternating, approx m wide zones of fresh to weakly altered (as before) material. Sporadic zones of 10 to 50 cm wide gouge zones. Altered subsections envelope the gouged subsections and display sub cm - > 3 cm wide, +/- quartz-, +/- carbonate-, +/ hematite veins, preferrably @ shallow angles to CA, rarely steep to CA. Moderately broken core increasing to intensively broken near gouged zones. Downwards decreasing width and abundance of gouged zones. Gouged zones (sericite, chlorite, minor carbonate): 48.7 to 49.1; 50.4 to 50.7; 52.1 to 52.9; 56.1 to 56.7 (with 3cm wide, vuggy - bladed quartz carbonate vein @ 20 deg to CA and quartz-, carbonate- vein fragments within gouge); 58 to 58.4 (partial gouge); 58.8 to 59 (with 6 cm quartz-, carbonate fragment); 62.2 to 62.3 (LC enveloped with strong hematite impregnation over 7 cm); 62.7 to 62.9. 68.7 to 69 sporadic, white, < 4 mm quartz veinlets @ 40 to 70 deg to CA, branching.																
71.60	72.90		Pale olive green grey to locally cream (locally with faintly developed reddish bands: hematite) coloured, weakly to moderately to strongly gouged material. UC: Sharp @ 50 deg to CA (associated with an indistinct parallel quartz-, carboante vein), LC: 20 deg to CA (associated with a distinct, parallel, cm wide quartz-, carbonate vein). Gouge material presumably bears sericite, minor chlorite, minor hematite, clay minerals and minor carbonate).											44		43	31	41	41

From (m)	To (m)	Sample No.		Lith	Mineralization							Alteration							
												sil	pot	ser	musc	clay	iron	carb	chlor
72.90	76.90		Strongly - locally intensively broken core with intermittend < dm wide, gouged zones as a.m.. Primary textures obliterated by quartz-, sericite-, and chlorite bearing alteration. Minor quartz-, +/- carbonate veining, grading into quartz flooding.									42		41	41	31	41	31	42
76.90	78.30		Distinctly chloritised mafics (carboante bearing) embedded in pale cream to dull white altered (presumably clay bearing) groundmass. Intrusive textures discrete. Strongly broken with locally closed spaced fracturing. Minor gouge. Locally abundant, preferrably @ 60 deg to CA orientated (parallel to prominent fracture orientation) chlorite-, +/- hematite bearing hairline veinlets. At 78 - 78.3 fracturing subparallel to CA. Loclly (at 77.7) trace pyrite specs forming faintly developed 2 cm patch. Minor quartz-, carboante veinlets < 3 mm, prefferrably at steep angles to CA.									41		41		41	41	21	42
78.30	88.80		Pale green, sericitic (clay-, carboante-, chlorite, locally patchy hematite bearing as described before) gouge, which locally grades into minor competent, strongly fractured core. Top 20 cm brownish, hematite bearing. Amount of gouge decreases near LC. From 80.6 to 82.5 m < dm sized core pieces (moderately to strongly broken) with weak to discrete primary textures: Weakly to moderately chlorite bearing (chloritised mafics) and locally +/- siliceous altered as described before, locally with faintly developed patchy hematite, weakly magnetic throughout.									31		34		33	31	31	42
88.80	93.70		Fresh appearing, locally weakly altered material (weakly chloritised mafics throughout, from 88.8 to 89.8 with weak quartz flooding, +/- weak sericite): Discrete primary textures with pale grey and black spotted, fine to medium grained, intermediate, quartz bearing? diorite. Subsections of strongly broken core, locally with very minor gouge (sericite, clay minerals minor carbonate: 10 cm at 89.5), associated with pale pinkish halos. Scattered, orange (FE bearing carboante?), sub mm - 3 mm wide vinlets amount to << 1 %. Few, scatterd quartz-, carbonate veinlets, preferrably steep to CA. 89.8 to 89.9: Scattered blebs of bornite.									31		31		31	1	1	41
93.70	106.10		Strongly - locally intensively broken core with intermittend < dm to < m wide, gouged zones as a.m..Primary intrusive textures are variably discrete to predominantly +/- obliterated by quartz-, sericite-, and chlorite (chloritised mafics) bearing alteration. Pale cream, clayey ductile gouge (sericite, clay minerals, carbonate) from 93.7 to 94.7. UC (of gouge) parallel to highly carbonate bearing cm wide vein @ 15 deg to CA. LC (of gouge) along fracture plane @ 20 deg to CA. Pale cream, clayey ductile gouge (sericite, clay minerals, +/- minor carbonate) from 99.4 to 100.0. At 99.3 1 cm hematite-, carbonate vein @ 40 deg to CA. At 01.5 to 101.9: Pale pinkish (bearing < 1 % hematite specs and hematite hairline veinlets @ 60 deg to CA), quartz flooded material, bearing trace disseminated pyrite, within a.m. hematite hairline veinlets. UC (of quartz flooding) @ 70 deg to CA. From 104.3 to 106.1 discrete primary intrusive textures as described before.									32		32		33	1	31	41
106.10	115.90		Very similar to 93.7 to 106.1, but with significantly increased chlorite content, decreasing fracturing (moderate to strong) and less gouged subsections (decreasing abundance, width and degree of gouging: From 112.4 to 113 partial gouge/ semi kompetent material with moderate to strong sericite- and carbonate alteration and with sporadic carbonate-, hematite fragments. LC of moderately gouged subsecdtion @ 20 deg to CA with crowded to patchy hematite specs on lower side of LC, extending to 113.4) From 113.4 to 115.9 with primary textures increasingly discrete, downwards decreasing quartz flooding and downwards decreasing chlorite. Within altered subections minor carbonate-, hematite veining as before. Within non alterd subsections weak magnetism.									32		32		32	31	32	32
115.90	126.30		Weakly to locally moderately broken core, discrete, primary intrusive textures as before (quartz bearing diorite with 10 to 15 %, 1 to 3 mm biotite) with sporadic very weak quartz, +/- sericite alteration. Few, faintly developed, small, orange patches. Trace pyrite on fracture planes (for example at 121.9 m). Trace disseminated sulphides and minor magnetite. Moderately magnetic. From 124.3 to 124.9 pale green to cream highly sericite and carbonate (+/- clay minerals?) altered with numerous fine hematite-, carbonate stringers, grading into 10 cm gouge at 124.9. UC of gouge with slickensides @ 20 deg to CA. From 125.9 to 126.9 fracturing increaing to strong.																

						Mineralization						Alteration							
From (m)	To (m)	Sample No.		Lith								sil	pot	ser	musc	clay	iron	carb	chlor
126.30	137.60		Strongly to locally intensively broken core. Primary textres +/- obliterated by moderate sericite, +/- quartz-, +/- minor carbonate-, +/- minor clay minerals and minor chlorite (chloritised mafics) bearing alteration and locally strong bleaching. Scattered minor, narrow, gouged bands. At 130.6 to 131.1 pervasively pale cream bleached, primary textures entirely lacking, trace hematite specs. At 131.3 two close spaced, several mm sized specs of chalcosite? At 132 to 132.4 qurtzflooding, sericite and K-spar bearing alteration engulving multiple, 1 mm to < 3 cm quartz veinlets @ 50 to 60 deg to CA. At 135.1 m two 3 and 5 cm wide zoned quartz- chalcocite (< 5 mm wide chalcocite bands) @ 70 deg to CA, approx 3 cm apart. At 136.3 to 136.5 cm wide open space cavities, 2 mm by 5 cm with quartz-, carbonate lining.		q							21	31	42		31	1	31	41
137.60	141.90		Weakly broken core, discrete, primary intrusive textures as before (quartz bearing diorite with 10 to 15 %, 1 to 3 mm biotite). Weakly to moderately magnetic; weakly chloritised mafics, minor disseminated chlorite. From 141.5 to 141.9: Weak patchy epidote bearing alteration																
141.90	145.90		Primary textures obliterated by moderate to strong alteration (chlorite, hematite, clay minerals sericite). Significant increase of chlorite content. Competent core pieces with minor, pervasive, primary K-spar. Strongly to locally intensively broken core, grading into > 50 % gouge (< dm to > 1.5 m, variably intense: from moderate with competent core pieces to intense, clayey ductile). The gouge is assumed to comprise clay minerals, sericite, minor chlorite and minor hematite. Hematite occurs as dm sized patches and and poorly defined rusty red < cm to < 5 cm wide bands. Gouged subsections with few, < 4 cm quartz- carbonate veins @ 40 to 60 deg to CA, parallel to preferred orientation of fracture planes. LC: Fracture plane truncating gouged zone @ 30 deg to CA.									11	31	33		33	31		42
145.90	154.40		Fracturing decreases to weak to moderate. Locally patches displaying primary textures, Majority of interval with primary textures obliterated by sericite-, siliciofication, +/- minor chlorite bearing alteration. Few scattered, < dm, silty to sandy, chlorite bearing gouged zones.Few and far apart to locally close spaced quartz-, +/- hematite, +/- minor chlorite bearing veinlets (hairline to rarely < 3 cm) with somewhat preferred orientation from 60 deg to steep to CA. From 148.5 to 149.2: Pale cream to dirty olive green grey bleached (sericite and clay minerals) with scattered hematite specs and few, hematite bearing hairline veinlets, hematite coating on fracture planes. From 151.2 to 154.4: Increasingly intense quartz-, sericite alteration entirely obliterating pimary textures.									43		43		32	11	1	42
154.90	165.10		Interval broken out based on strongly weahtering and/ or gouging, associated with a discrete earthy appearance and total obliteration of primary textures by quartz-, sericite alteration with patchy subsections displaying increased chlorite. Numerous subsections (50 %) of brick red hematitic staining (patchy, mottled, blotchy) within strongly sericite/ clay bearing, incompetent to moderately gouged subsections. Staining is frequently associated with irregular poorly defined, +/- brecciatd quartz-, carbonate veins, and slicknsides bearing fracture planes @ 10 to 20 deg to CA (indicating drilling down a fault). Strongly to locally intensively fractutred.									32		33		34	32		33
165.10	165.50		Strongly broken. Pale white, dense quartz veine with fine , closely spaced, dark coloured fine bands (specularite?, +/- trace chalcocite?) @ 10 deg to CA, with associated traces yellowish sulphide (pyrite) and minor hematitic streaks. UC and LC unknown: Broken core and/ or poor definition.									45					3	2	
165.50	179.70		Interval broken out based on pervasively increasing chlorite content relatively to overlying intervals. Moderately to locally intensively broken core, associated wih gouged materail; gouge decreasing to minor, local occurences and < 5 cm wide. Locally very faintly developed primary textures; the majority of interval with primary textures obliterated by quartz sericite + chlorite bearing alteration. Patches grading into subsections with strong pervasive silicification, associated with dense appearance and pale bleached colour. Sporadic to numerous rusty red hematite stained patches enveloping hairline fractures and associated with intense fracturing (variable orientation, from subparallel to steep).									33		33		1	22	41	33
179.70	183.80		Increasing sericite and clay mineral content, decreasing chlorite content (50 % localised areas, similar to overlying interval and 50 % pale bleached quartz-, sericite altered material with a pale dirty appearance). Few, scattered, < dm sized rusty red, hematite bearing patches, +/- associated with intensively broken core. Strongly to intensively broken core throughout.									33		33			31		32

From (m)	To (m)	Sample No.		Lith		Mineralization						Alteration							
												sil	pot	ser	musc	clay	iron	carb	chlor
183.80	188.50		183.8 to 184.5 strongly broken, semi competent material with abundant gouge. From 184.5 to 185.3: Competent, sericite altered rock. From 185.3 to 188.5: Sericite-, clay mineral-, carboante- and minor hematite bearing, predominantly pale cream, intensively gouged material.											44		44	31	42	
188.50	195.70		Strongly to intensively broken core, displaying variably sericite, +/- quartz, chlorite, clay mineral, +/- minor hematite (patchy and hematite-, carboante veinlets) bearing alteration resulting in variably coloured gravely subsections. Very poor recovery.									42		43		32	31	31	31
195.70	201.10		Locally moderately to intensively broken core. Return of primary textures within subsections and partially obliterated by weak quartz-, sericite alteration. Patchy, weak, salmon pink K-spar alteration. Weakly magnetic (also +/- within broken subsections). Pervasive weak chlorite alteration.									41	31	41				31	42
201.10	213.10		Transition zone between overlying strongly altered and underlying fresh, non alterd material. Intrusive textures (partially faintly developed as a result of weak to moderate sericite-, chlorite- and epidote bearing alteration) apparent throughout. Locally moderate fracturing, predominantly strong to intensive fracturing, grading into variably wide (typically < dm), scattered gouged zones. 201.1 to 202: Pervasive, salmon pink (hematite?, K-spar?) alteration with numerous sericitic fracture fillings. Carbonate bearing in and around variably orientated hairline fractures. From 202 downwards to 213.2: Weakly epidote bearing (within fractures and minor isolated patches). Few and far apart, < 4 cm, salmon orange (K-spar?), variably orientated veins. Predominant gouged, +/- clayey ductile, zone from 208 to 209.5 (brownish, +/- minor carbonate, +/- minor K-spar?, chlorite bearing). From 211 to 213.1 strongly to intensively broken, partially semi competent to clayey ductile gouged (sericite, epidote, carbonate, +/- chlorite).										32	32		33		32	42
213.10	216.50		Fresh, non - weakly altered (partially chloritised mafics), fine to medium grained, 15 to 20 %, < 3 mm, mafics, predominantly biotite. Quartz bearing. Interpreted as quartz bearing diorite as described before. Weakly broken. Minor, sub mm to mm, bright white carbonate veinlets.															11	41
	E O H																		

From (m)	To (m)	Recovered (m)	RQD Recovery (m)	Recovery (%)	RQD
15.24	15.90	0.22	0.10	33%	0.45
15.90	17.37	1.43	0.67	97%	0.47
17.37	18.90	0.99	0.14	65%	0.14
18.90	21.95	2.69	0.55	88%	0.20
21.95	25.00	1.98	0.00	65%	0.00
25.00	28.04	2.63	0.91	87%	0.35
28.04	31.09	2.86	0.73	94%	0.26
31.09	34.10	2.88	0.93	96%	0.32
34.10	37.20	2.86	0.86	92%	0.30
37.20	40.20	2.49	0.65	83%	0.26
40.20	43.30	2.81	0.45	91%	0.16
43.30	46.30	2.87	0.91	96%	0.32
46.30	49.40	2.73	0.21	88%	0.08
49.40	52.40	1.67	0.12	56%	0.07
52.40	53.50	2.07	0.10	188%	0.05
53.50	58.50	2.84	0.38	57%	0.13
58.50	61.60	2.39	0.32	77%	0.13
61.60	64.60	2.66	0.68	89%	0.26
64.60	67.70	2.71	0.33	87%	0.12
67.70	70.70	2.78	0.90	93%	0.32
70.70	73.76	2.73	0.27	89%	0.10
73.76	76.81	2.12	0.22	70%	0.10
76.81	79.90	2.45	0.00	79%	0.00
79.90	82.90	2.62	0.21	87%	0.08
82.90	85.90	1.86	0.00	62%	0.00
85.90	89.00	2.60	0.11	84%	0.04
89.00	92.05	2.89	0.70	95%	0.24
92.05	95.10				
95.10	98.15	2.77	0.11	91%	0.04
98.15	101.19	3.28	0.51	108%	0.16
101.19	104.24	1.04	0.00	34%	0.00
104.24	107.29	2.45	0.45	80%	0.18
107.29	110.34	2.55	0.10	84%	0.04
110.34	113.39	2.83	0.53	93%	0.19
113.39	116.43	2.69	0.43	88%	0.16
116.43	119.48	2.86	2.36	94%	0.83
119.48	122.53	2.97	1.71	97%	0.58
122.53	125.58	2.84	0.46	93%	0.16
125.58	128.70	1.91	0.12	61%	0.06
128.70	131.70	2.42	0.43	81%	0.18
131.70	134.80	2.49	0.00	80%	0.00
134.80	137.80	2.50	0.64	83%	0.26

From (m)	To (m)	Recovered (m)	RQD Recovery (m)	Recovery (%)	RQD
137.80	140.90	2.88	2.10	93%	0.73
140.90	143.86	2.70	0.66	91%	0.24
143.86	146.91	2.65	0.59	87%	0.22
146.91	149.96	2.55	1.30	84%	0.51
149.96	153.00	2.29	0.92	75%	0.40
153.00	156.60	2.65	0.96	74%	0.36
156.60	159.10	2.21	0.21	88%	0.10
159.10	162.15	2.18	0.67	71%	0.31
162.15	165.20	2.37	0.71	78%	0.30
165.20	168.25	2.61	1.02	86%	0.39
168.25	171.30	2.47	1.37	81%	0.55
171.30	174.35	2.42	0.20	79%	0.08
174.35	177.39	1.73	0.21	57%	0.12
177.39	180.50	2.64	0.69	85%	0.26
180.50	183.49	2.22	0.30	74%	0.14
183.49	186.54	2.13	0.55	70%	0.26
186.54	189.60	2.22	0.00	73%	0.00
189.60	192.70	0.87	0.00	28%	0.00
192.70	195.70	0.75	0.11	25%	0.15
195.70	198.80	1.73	0.47	56%	0.27
198.80	201.80	1.87	0.26	62%	0.14
201.80	204.90	2.72	0.28	88%	0.10
204.90	207.90	2.58	0.76	86%	0.29
207.90	211.00	2.39	0.10	77%	0.04
211.00	214.00	2.46	0.20	82%	0.08
214.00	216.50	2.14	1.70	86%	0.79
	E O H				

From (m)	To (m)	Sample No.		Mineralization							Alteration							
											sil	pot	ser	musc	clay	iron	carb	chlor
6.10	23.83		Variably fractured core, from weakly to moderately, locally strongly. Primary textures are variably discrete (locally) to predominatly partially obliterated, to entirely lacking (locally) as a result of pervasive silicifictaion and sericite-, +/- minor carboante bearing alteration. < 3 % fine grained, primary? K-spar and 10 % chloritised mafics (pyroxenes?) throughout. Protolith is interpretd to be a medium grained quartz bearing diorite. Few minor weakly pinkish patches, presumably weakly hematite bearing? Sub sections with minor hematite specs as described before. Crosscut by few and far apart quartz-, carboante veinlets. Locally (patch from 10.7 to 11.4) a fine hematite veinlet stockwork locally graing into < cm wide, variably orientated specularite veinlets, embedded in patchy siliceous, pale cream bleached to rusty red (disseminated hematite) and +/- clay mineral bearing? host material. From 14.4 to 14.6 weakly pitted material, with significantly increased sericite content and 15 % hematite specs and blebs, possibly associated with trace chalcosite and bornite? At 16.7 a > 4 cm w								43	41	42	41		41	41	41
23.83	41.80		Very similar to previous, but with overall increased alteration: Significantly decreasing abundance of subsections displaying primary textures and the majority of interval with primary textures entirely lacking as a result of sericite- and quartz bearing alteration. Locally intensivley fractured core, grading into narrow, < dm wide clayey, ductile and swelling (clay minerals) gouge (at strongly broken with partial gouge from 34 to 34.5, swelling, strongly clay bearing gouge at 40.5 to 40.7). Patches with discrete hematite staining and from 38.3? (3 m of missing core somewhere in this interval) to 38.8 a > 0.5 m wide? (missing core?), pervasively salmon coloured, weakly siliceous and minorly carbonate bearing intensively specularite specled, and/ or fine meshed hematite veinlet stockwork bearing subsection. Hematite is associated with minor to moderate? chalcocite. Subsections displaying hematite specs as described before, locally (for example at 29.25 to 29.45 within a 3 mm quartz-, carbonate vein @ 50 deg to CA) with minor chalcocite. From 32.8 to 41.8 gradually increasing pimary								43		43	41	31	33	21	41
41.80	71.20		Variably fractured core, from weakly to moderately, locally strongly, rarely grading into < dm wide gouged zones. Primary textures are variably discrete (locally) to predominatly partially obliterated, to entirely lacking (locally) as a result of pervasive, mottled silicifictaion and sericite-, +/- minor carboante (weakly pervasive as well as in and around hairline fractures) bearing alteration. < 5 to 10 % fine grained, primary? K-spar and 10 % chloritised, < cm mafics (pyroxenes?) throughout and loclly chlorite bearing patches (at 66.7 as 5 cm wide halo around chlorite bearing hairline fractures @ 80 deg to CA). Minor biotite.Very minor, < 5 mm hematite- and carbonate veinlets as described before. Protolith is interpreted to be a medium grained quartz bearing granodiorite. Pale, pinkish, non potassic patches scatterd throughout amount to 20 to 30 %, presumably weakly hematite bearing? Except moderately to strongly altered subsections weakly to moderately magentic. Crosscut by few and far apart, < cm quartz-, carboante veinlets. Fracturing and veining generally @ 60 to 70 deg to CA. 59.3 to 60 m missing c								32	42	32	31	31	32	21	32
71.20	82.40		Similar to previous interval, but with increasingly abundant pinkish patches grading into pervasive pink to cream coloured alteration associated with significantly increasing bleaching (weakly to moderately sericit bearing), hich obliterates primary textures +/- entirely throughout the majority of the interval, resulting in a +/- dense, pale, featureless appearance. Varaibly moderately to locally strongly broken and then grading into < cm to < dm wide highly clay, sericite- and moderately carbonate bearing gouge. Prominently, clayey ductile gouged zone from 80.8 to 81.0 m; UC and LC @ 40 deg to CA. From 81 to 81.9 patchy to pervasive, strong, pale cream silicification (quartz flooding), bearing dark specs of unknown composition (chlorite?) and trace chalcosite specs at 81.6 m and 81.9 m. From 81.9 to 82.4 mixed, fine grained, aphanitic, banded (flow banding? @ 40 to 50 deg to CA) sericite altered, grading into 15 cm fine grained, pale green felsic material with minor hematite stringers @ 50 deg to CA and transucent quartz patches (possibly a dike with contacts camouflaged by alteratio								33	32?	42		32	42?	32	31

					Mineralization						Alteration							
From (m)	To (m)	Sample No.									sil	pot	ser	musc	clay	iron	carb	chlor
82.40	86.42		Moderate to strong, pervasive, quartz-, sericite- and chlorite bearing alteration +/- obliterating primary textures. 8 % chloritised mafics Moderately to locally strongly broken core, often with sericite-, +/- clay and minor carbonate bearing gouge. Minor, sporadic hairline hematite veinlets/ fracture filling. At 84.4 1 cm quartz veinlet with approx 50 % chalcocite blebs @ 40 deg to CA. 84.7 to 84.9: Clayey, ductile gouge bearing solid rock pieces.								43		43		32	11	11	41
86.20	111.80		Throughout the entire interval fresh and unaltered subsections (beaing 3 to 5 % primary k-spar) and/ or patchs from < dm to > 1.5 m alternating with equally sized, variably weakly to moderately quartz-, sericite altered subsections and patches. Few subsections with intensively broken core, grading into approx dm wide, clayey ductile clay mineral and +/- sericite bearing gouge: 93.6 to 94.1. From 102.7 to 105.6: Strongly to intensively broken core with trace to minor, silty to sandy gouged material intermixed. Trace hematite hairline veinlets (at 93.57 and 111 m < 3 mm hematite-, carbonate veinlet @ 60 deg to CA). Very minor carboante veinlets from hairline to approx mm width. From 107.1 bis 107.6 5 pieces 3 mm to 2 cm wide quartz- carbonate veins @ steep angle to CA within strongly quartz-, sericite (+ minor carbonate) altered subsection.								32		32	31	31		32	41
111.80	147.75		Same as previous interval but overall increased to moderate fracturing, increasing amont of gouge (abundance and width of gouged subsections to moderate overall). Fresh subsections display weak magnetism. Prominent gouged subsections from 111.8 to 114: Strongly broken core, grading into intermittend moderately gouged (semi competent with sericite, clay, +/- quartz belbs), rarely strongly to intensively gouged material. Minor quartz-, carbonate-, hemnatite veinlets, grading into irregular patches. From 129 to 129.2: Moderately to strongly gouged (sericite, clay minerals, carboante, +/- minor hematite as before). 140.5 to 142: Strongly gouged (clay minerals and sericite). At 143 m: 6 cm gouge sandwiched between fracture planes @ 40 to 50 deg to CA; cm sized competent hematite patches . At 143.4 m 5 cm gouge sandwiched between fracture planes @ 70 deg to CA. Prominent weakly to non altered sections: From 117 to 121.3: Granodiorite with < 3 mm, locally 3 to 10 mm sized mafics as described before. From 129.3 to 131.7 m: Granodiorite as before wih minor, weak, patchy sericitic alteration. From 136.3 to 139.9: Granodiorite as before								31		32		32	1	31	31
	E O H																	

From (m)	To (m)	Recovered (m)	RQD Recovery (m)	Recovery (%)	RQD
6.10	8.23	1.54	0.10	72%	0.06
8.23	11.28	2.32	0.52	76%	0.22
11.28	14.33	2.20	0.98	72%	0.45
14.33	17.37	2.59	0.89	85%	0.34
17.37	20.42	2.43	1.28	80%	0.53
20.42	23.47	2.23	1.26	73%	0.57
23.47	26.52	2.45	0.86	80%	0.35
26.52	29.57	2.57	0.69	84%	0.27
29.57	32.61	2.59	1.34	85%	0.52
32.61	38.71	2.02	0.41	33%	0.20
38.71	41.76	2.26	0.49	74%	0.22
41.76	44.80	2.77	0.56	91%	0.20
44.80	47.90	2.83	1.03	91%	0.36
47.90	50.90	2.21	0.26	74%	0.12
50.90	54.00	2.78	1.93	90%	0.69
54.00	57.00	2.47	0.99	82%	0.40
57.00	60.10	1.76	0.38	57%	0.22
60.10	63.10	2.90	1.98	97%	0.68
63.10	66.20	2.80	0.60	90%	0.21
66.20	69.20	2.96	1.31	99%	0.44
69.20	72.30	2.64	0.90	85%	0.34
72.30	75.30	2.95	1.35	98%	0.46
75.30	78.40	2.92	0.33	94%	0.11
78.40	81.40	2.93	0.31	98%	0.11
81.40	84.50	2.98	1.19	96%	0.40
84.50	87.48	2.90	0.64	97%	0.22
87.48	90.53	2.63	0.44	86%	0.17
90.53	93.57	2.82	0.84	93%	0.30
93.57	96.62	2.98	2.03	98%	0.68
96.62	99.70	2.63	0.85	85%	0.32
99.70	102.70	2.42	0.72	81%	0.30
102.70	105.80	2.37	0.38	76%	0.16
105.80	108.80	2.48	0.80	83%	0.32
108.80	111.86	2.93	0.83	96%	0.28
111.86	114.90	2.35	0.12	77%	0.05
114.80	118.00	2.79	0.26	87%	0.09
118.00	121.00	2.96	1.21	99%	0.41
121.00	124.05	2.52	0.39	83%	0.15
124.05	127.10	2.72	0.85	89%	0.31
127.10	130.15	2.80	0.22	92%	0.08
130.15	133.20	2.84	0.59	93%	0.21
133.20	136.25	2.70	0.37	89%	0.14
136.25	139.30	2.95	0.54	97%	0.18
139.30	142.40	2.92	0.11	94%	0.04
142.40	145.40	2.92	0.95	97%	0.33
145.40					

From (m)	To (m)	Sample No.		Alteration sil	pot	ser	musc	clay	iron	carb	chlor	Veining %Qtz	%Qtz Carb
0.00	12.20		Casing/OB										
12.20	18.50		Gchataway. pale grey, fine-medium grained quartz diorite, +10% mafics dominantly biotite weakly to moderately chlorite+magnetite. Weak to moderately magnetic. Epidote veins 0.1-2.0 cm with cloudy`quartz+white feldspar envelopes to 2 cm. Moderately silicified around fractures. Weak Yellow orange FeOx filled fractures (Weakly fractured CA 35-60+ 80degrees) .	2		2	0	1	1	1	3	0	5
18.50	20.60		Gchataway. Moderately broken core. Moderate to strong pervasive silicification, and hematite along fractures and disseminated in matrix. White clay altered fractures 20 cm at 18.6 CA 70 degrees. followed by pervasive quartz flooding, silicification. Moderately fractured with strong Red FeOx along fractures CA 55 and subparallel. zone is non magnetic.	4		3	0	3	3	1	2		
20.60	25.70		Gchataway. Moderate pervasive chlorite-magnetite. Moderate silicification, sericite-epidote veins+ fine grained pink quartz-feldspar(k-feld) veins to 1 cm. Weak FeOx, frctures	3	1	2	0	1	1	1	3		
25.70	26.45		Pale green fine grained quartz feldspar porphyry (andesite?) Contact CA 15 upper, 40 lower. Strong chlorite + weak magnetic, trace Red-Orange FeOX filled fracture CA 25 degrees.	0	0	3		2	1		3		
26.45	64.30		Gchataway. Weak pervasive chlorite, sericite, feldspars cloudy. Moderate silicification, quartz _epidote-sericite flooding, veins to 30 cm CA 45-60, fine grained pink-flesh colored quartZ-feldspar dike 5 cm, CA 70@33.4. @39.7m-41m 45.8-47.0 intense quartz-muscovite-clay+minor FeOx along fractures CA 60.Dominant hairline to 2 cm fractures weak @ 45-70degrees+subparallel with white clay, chlorite, sericite , @48.2 48.9: strongly silicified with densely packed med grain mixed green chloritized mafics (30%) and magnetite blebs (5%) crossed by sporadic patchy epidote (10%)	2	1	1	1	1	1	1	3		
64.30		95	Gchatway. Increasing pervasive quartz-sericite, hematite altered magnetite. Pale to dark green to locally cloudy plagioclase, locally flaky sericite. 55.8-66.2 strong white clay to gouge CA 45degrees. 69.2-78.0 moderately broken, fractures filled with chlorite, quartz-sericite, clay, red FeOx+cuprite/native copper CA 45-70 degrees+subparallel and locally cross cutting. 78-95.0 weakly broken, increasing sericite and hematized magnetite, and hematite-cuprite-native copper filled quartz+flaky sericite veinlets CA 50-70 degrees.	3	0	2	1	2	2	1	2	3	5
95.00		156.6	Gchataway. Increasing pervasive qtz-ser +/- kaol +/- carb, mod strongly fractured with pervasive obliteration of primary textures, trc cp +/- hem +/- cuprite? In fractures, flaky sericite + clay altered (fault gouge zones), gouge occupies approx 20% of section w. variable moderate to intense development, core angles, fracture and core angles generally 45-60 degress to core angles,locally at 90 degrees to c.a, minor sporadic qtz +/- hem +/- carb veinlets to 1 cm at 50-60 degrees to c.a, sporadic brick red hem fracture coatings often with strong slickensides, downsection increased frequency of hematite fracture fillings and hem fracture halos beginning at approx 115.0 m, from 120.4 - 156.3: section contains numerous zones of intermitent bleached partial gouge/fault breccia zones 10 cm to > 1 m, w.strong to intense fracture fillings of patchy brick red hematite (qtz-ser-carb-hem), intense alteration zones @ 120.4-123.6,121.1 -127.7, 137.0-138.7 (sporadic), 140-141.4, 144.6-146.1, 155.3-155.6, ;strongest hematite often forms halos around wk to mod alteration w partial primary textures @ 150.0-	2	0	3	1	2	3	1	2		
156.60	163.00		Gchataway. Strongly broken with pervasive obliteration of primary textures, cream to pale pinkish cream color, 1-2% red hematite spots 1-2mm, localized gouge areas (seric + carb), locally preferential bluish-green seric replacement of plag phenos	3	0	3	1	2	1	1	0		

				Alteration								Veining	
From (m)	**To (m)**	**Sample No.**		sil	pot	ser	musc	clay	iron	carb	chlor	%Qtz	%Qtz Carb
163.00	172.90		Gchataway. Fault gouge/fault breccia, predominantly msv pale yellowish green, locally with reddish hematite patches, contains < 40% pale cream (as above) altered rock fragments to ~ 167.3 (alteration is qtz-seric +/- clay), from 167.3 to 172.9 m, gouge becomes increasingly kaolinitic w downward increasing fragments with modeerate to clear intrusive texture	2	0	4	0	4	1	2	0		
172.50	175.90		Gchataway. Fresh-weakly altered medium grained qtz diorite, 10-15% mafics (mainly chloritized biotite), 2-7 mm, , weak pinkish fine patches through groundmass , ~ 1% distinct f.g dissemen. magnetite, 2-3 mm, trace fine epidote patches through groundmass, weak-mod fractured at 60 degrees to core axis , weak fine chlorite +/- carb +/-seric fracture fils	1	0	1	0	1	1	1	1		
	EOH												

From (m)	To (m)	Sample No.		Alteration sil	pot	ser	musc	clay	iron	carb	chlor
6.10	23.50		Overburden: Mixed gravel and diorite to granodiorite throughout (boulder fragments), inermittent pieces of sandy, ductile clay.								
23.50	30.90		Pale grey to olive green grey, equigranular, medium grained quartz bearing diorite, as described before. 20 %, euhedral to anhedral, mm to < 3 mm (rarely < 1 cm), partially chloritised mafics, mainly biotite. Weakly magnetic. Weak to moderate, patchy, sericite bearing alteration, with partial to complete obliteration of primary textures. Locally trace clay minerals? and minor carbonate. Moderately to locally intensively broken, grading into minor, narrow, gouged zones (minor clay minerals, minor sericite and minor carbonate).	31		42		31		31	41
30.90	36.20		Moderately to strongly broken, locally intensively broken> Primary texture obliterated by modrate to strong quartz-, sericite bearing alteration. At 31.5 to 32.1: Pale cream bleached subsection, cut by numerous, < cm, variably orientated quartz-, hematite-, carbonate bearing veinlets.	42		42		31	12	41	42
36.20	54.60		Pale grey to olive green grey, equigranular, medium grained quartz bearing diorite, as described before. Weakly magnetic. 20 %, euhedral to anhedral, mm to < 3 mm (rarely < 1 cm), chloritised mafics. Moderate, patchy, quartz- and sericite bearing alteration, with partial to complete obliteration of primary textures. Locally minor clay minerals? and minor carbonate. Weakly to locally intensively broken, grading into minor, narrow, gouged zones (minor clay minerals, minor sericite and minor carbonate). Up to 40 cm wide, bleached subsections, associated with pink non K-spar bearing patches and patchy epidote, sporadic epidote bearing heirline fractures. Minor, bright white, mm to 3 mm wide, variably orientated carbonate veinlets, scattered. At 46.1 m 1 cm gypsum vein @ 40 deg to CA. At 46 m a 1.5 cm wide, fine grained, dense, pale pinkish dike @ 20 deg to CA, and 46.6 m a 4 cm wide, pale pinkish to pale green dike @ 50 deg to CA; both non potassic. Fractues are preferrably @ 60 deg to CA.	41		41		31		41	41
54.60	85.20		Abrupt change from weakly broken to strongly broken and grading into a > 1.5 m wide gouged zone and significantly increased sercite-, clay minerals- chlorite and carbonate bearing alteration. Strongly to inensively broken core with estimated 20 % gouged zones from predominatly < dm to rarely several dm wide or even > m wide. Within competent subsections primary textures are +/- obliterated by sericite, chorite, clay mineral and locally quartz bearing alteration. Rusty maroon colored, hematite bearing patches scatterd throughout. Locally bleached subsections, sporadic epidote bearing (patches). From 65.1 to 66.2: Suspected intermittend diking (5 to 10 cm wide with very poorly defined contacts as a result of a.m. fracturing and alteration), associated with numerous hematite bearing fracture fillings and hematite bearing, +/- clayey ductile gouge (at 65.1 to 65.6), and patchy silicification. From 60 to 65.1: Strongly to intensively broken core, but alteration decreases from strong overall to weak with discrete primary textures, epidote, chlorit	31		43		33	23	31	42

				Alteration							
From (m)	To (m)	Sample No.		sil	pot	ser	musc	clay	iron	carb	chlor
85.20	100.20		Moderately to strongly broken, locally weakly broken; fracture intensity downwards increasing to intensive. Intrusive textures mainly obliterated, locally faintly developed. Pervasive, quartz- (quartz blebs), sericite alteration, +/- chlorite, resulting in pale green to dirty green colour. Several, < 0.5 m wide pale beige to weakly pinkish (Fe- oxide bearing?) bleached sections (predomintly clay minerals? and sericite?), locally (at 87.7) with 1 to 3 mm quartz carbonate veinlets @ 60 deg to CA and +/- grading into minor clayey - ductile gouge; abundance increasing downwards. Locally minor hematite specs and hematite coated fracture panes . Moderately altered subsections with apparent (primary) K-spar. Rare 2 to 3 mm wide carbonate veinlets @ 60 deg to CA, parallel to preferred orientation of fracture planes. From 96.6 to 100.2 pervasive chlorite (associated with sericite and quartz blebs).	42		43		43	1	21	32
100.20	125.70		Pale cream to pale beige to weakly reddish (patchy) to faintly greenish coloured, locally non gouged to predominantly moderately gouged (material is in place, densely packed, but easily crumbles on pick up), +/- intensively altered throughout (clay minerals, sericite, minor patchy hematite, minor carbonate: strongest pervasive alterations seen so far; dense, massive, bleached appearance completely obliterating primary textures). The gouged material bears small intermittent weakly to moderately competent subsections, which are very gradationally increasing near UC and LC and display clay alteration of feldspar. Locally hematite bearing halos enveloping fractures, which are prefrerrably orientated @ 50 to 60 deg to CA. Locally hematite-, sericite slickensides. From 100.2 to 102.6 pale yellow beige bleached, competent and +/- siliceous, sericite- and clay mineral bearing material, displays numerous, red, presumably hematitic specs.	31		44		44	31	41	
125.70	129.30		Dirty green with pink K-spar phenos throughout, partially distinct intrusive texture, weak to moderate quartz-, sericite and chlorite alteration, bears distinctive 5 - 10 % primary K-spar, disseminated throughout matrix. From 171.1 to 129.3, decreasingly apparent intrusive texture, fracturing increasing from weak to strong/ intense, with intermittend narrow, sericte-, clay and carbonate bearing gouge subsections.	42		42		32		32	42
129.30	133.50		Pale grey, dirty green grey to locally pinkish (hematite) weakly ductile to sandy gouge (sericite, clay minerals: swelling, carbonate) with few minor, competent, < 5 cm sized core pieces.			44		44	31	43	41

From (m)	To (m)	Sample No.		Alteration							
				sil	pot	ser	musc	clay	iron	carb	chlor
133.50	169.90		Cream to weakly pale greenish to faintly pinkish (Fe-bearing carbonate?) as described before.From 133.5 to 163.7 interval displays discrete primary, intrusive textures: (15 to 20 % anhedral, pervasively chloritised, < 5 mm mafics, weak magnetism. Weakly altered: Sericite, +/- minor clay minerals?, +/- minor carbonate) alternating with predominantly narrow, very intensively altered to gouged subsections, reminiscent to a clay bearing stockwork (highly clay-, sericite- and +/- minor carbonate bearing: Locally quartz flooding and/ or veining < 0.5 m, minor epidote in and around fractures). Fractures are preferably oreintated @ 50 to 60 deg to CA, locally variably orientated. Competent subsections cut by approx %, variably orientated, white (carbonate) to orange - pinkish (presumably Fe-carboante) bearing veinlets. Transitions between week and intense alteration are predominatly very sharp. Prominet intensively alterd subsections from 142.8 to 143.6: Intensively pale beige bleached and pervasive quartz-, sericite clay mineral bearing alteration, competent core pieces near centre of subsec	32		33		33	41	31	31
169.90	183.00		Small subsections of this interval very reminiscent to overlying interval, but overall primary textures are increasingly obliterated by quartz (quartz blebs), sericite and chlorite bearing alteration. Overall increasing abundance of gouge (+/- 20 %: Clay minerals, sericite, +/- carboante), reminiscent to a stockwork, as described above with typically very sharp contacts along very variable orientated fracture planes. Strongly to intensively fractured throughout, with preferred orientation of fracture planes @ 50 to 60 deg to CA. From 177 m to 183 m increasing hematite staining and K-spar grading from specs and patchy to +/- pervasive pink associated with increasingly prominent primary textures. Trace sulphides (pyrite) on fracture planes.	43	32	43	41	33	1	31	41
183.00	193.10		Primary textures are discrete throughout this interval, with relatively decreased amount of mafics (< 3 %): Mainly fresh appearing, < 5 mm biotite. Sub mm to rarely < 5 mm feldspar, increased quartz content?; crowded, intergranular texture, different to the the common intrusives of the area and therefore tentatively interpreted as potential dike? Very weak to weak, sericite and clay mineral (cloudy to chalky feldspar) bearing alteration increasing downwards, associated with fracturing increasing from moderate to intense near LC. Patchy to weakly pervasive pinkish tint as a result of (primary?) K-spar and +/- Fe-bearing carbonate? Locally trace sulphide altered mafics (chalcocite and bornite) very rarely grading to cm sized specs/ blebs. Variably orientated, sub mm to mm wide, orange, Fe-carbonate bearing veinlets. Variably orientated fracturing			1		1	1	11	21

From (m)	To (m)	Sample No.		Alteration							
				sil	pot	ser	musc	clay	iron	carb	chlor
193.10	203.30		Intensively to very intensively fractured core, with > 20 % moderately to clayey ductile gouged subsections. Few core pieces with faint primary textues reminiscent to overlying interval, predominantly primary textures obliterated by sericite, clay mineral and +/- carbonate bearing alteration and pale bleached appearance: Reminiscent to 169.9 to 183. Clay mineral, +/- carbonate and sericite bearing gouge. Competent core pieces with pinkish tint as described before. Locally quartz belbs, rarely grading into flooding. Trace sulphide specs. From 194.5 to 200.6: Moderately gouged to locally clayey ductile subsections (generally pale bleached coloured, locally rusty red as a result of minor hemtite) +/- with < cm sized angular fragments. From 201 to 203.3 increasing primary textures (bearing weak to moderate pervasive sericite and decreasing clay and decreasing gouge. EOH	32		43	41	33	1	31	1

R06-13

From (m)	To (m)	Recovered (m)	RQD Recovery (m)	Recovery (%)	RQD
6.10	8.20	0.22	0.11	10%	0.50
8.20	11.30	0.36	0.00	12%	0.00
11.30	14.30	0.31	0.12	10%	0.39
14.30	17.40	0.60	0.13	19%	0.22
17.40	20.40	0.40	0.18	13%	0.45
20.40	23.50	0.13	0.00	4%	0.00
23.50	26.50	2.39	1.07	80%	0.45
26.50	29.60	2.32	0.27	75%	0.12
29.60	32.60	2.44	1.04	81%	0.43
32.60	35.70	1.78	0.36	57%	0.20
35.70	38.70	2.25	1.16	75%	0.52
38.70	41.80	2.10	0.52	68%	0.25
41.80	44.80	2.70	0.56	90%	0.21
44.80	47.85	2.77	1.77	91%	0.64
47.85	50.90	3.00	1.75	98%	0.58
50.90	53.95	2.69	0.66	88%	0.25
53.95	57.00	2.28	0.42	75%	0.18
57.00	60.05	1.54	0.00	50%	0.00
60.05	63.09	1.51	0.10	50%	0.07
63.09	63.09	0.35	0.00	#DIV/0!	0.00
63.09	66.14	1.37	0.36	45%	0.26
66.14	69.19	1.15	0.00	38%	0.00
69.19	72.24	1.10	0.12	36%	0.11
72.24	75.28	1.92	0.35	63%	0.18
75.28	78.33	1.02	0.00	33%	0.00
78.33	81.38	1.07	0.20	35%	0.19
81.38	84.43	0.84	0.00	28%	0.00
84.43	87.48	2.29	0.33	75%	0.14
87.48	90.53	2.18	0.95	71%	0.44
90.53	93.57	2.20	0.28	72%	0.13
93.57	96.62	1.93	0.42	63%	0.22
96.62	99.67	1.39	0.00	46%	0.00
99.67	102.72	1.88	0.10	62%	0.05
102.72	105.79	2.73	0.51	89%	0.19
105.79	108.81	2.60	0.41	86%	0.16
108.81	111.90	2.77	0.14	90%	0.05
111.90	114.90	2.70	0.11	90%	0.04
114.90	118.00	2.92	0.46	94%	0.16
118.00	121.00	2.74	0.50	91%	0.18
121.00	124.10	2.75	0.53	89%	0.19
124.10	127.10	2.60	0.71	87%	0.27
127.10	130.15	1.43	0.00	47%	0.00

From (m)	To (m)	Recovered (m)	RQD Recovery (m)	Recovery (%)	RQD
127.10	133.20	1.50	0.00	25%	0.00
127.10	136.25	2.23	0.38	24%	0.17
127.10	139.30	2.34	0.33	19%	0.14
127.10	142.34	2.76	0.46	18%	0.17
127.10	145.39	2.49	0.37	14%	0.15
127.10	148.44	2.30	0.43	11%	0.19
127.10	151.50	2.84	0.87	12%	0.31
127.10	154.53	2.70	1.05	10%	0.39
127.10	157.60	2.92	1.51	10%	0.52
127.10	160.60	2.48	0.44	7%	0.18
127.10	163.70	3.20	0.34	9%	0.11
127.10	166.70	2.60	1.62	7%	0.62
127.10	169.80	2.42	0.70	6%	0.29
127.10	172.80	2.52	0.00	6%	0.00
127.10	175.90	2.28	0.00	5%	0.00
127.10	179.00	2.20	0.31	4%	0.14
127.10	181.97	1.92	0.14	3%	0.07
127.10	185.00	2.18	0.44	4%	0.20
127.10	188.06	2.72	1.49	4%	0.55
127.10	191.10	2.63	1.20	4%	0.46
127.10	194.16	2.62	0.10	4%	0.04
127.10	197.20	1.75	0.00	2%	0.00
127.10	200.25	1.53	0.00	2%	0.00
127.10	203.20	2.02	0.00	3%	0.00
	E O H				

			Mineralization							Alteration						
From (m)	**To (m)**									sil	pot	ser	musc	clay	iron	carb
0.00	12.20	Overburden/casing														
12.20	97.00															
		Medium grained pale grayish green with pervasive sporadic salmon colored patches, moderate pervasive qtz-seric alteration mainly obliterating primary textures, plag phenocrysts are generally euhedral, 2-4 mm, generally w. pale apple green to cream colored with weak clay +/- seric alteration, moderately to strongly broken with numerous sporadic sericite + clay gouge sections 10-20 cms, weak carbonate on fractures and within gouge intervals, fracturing and gouge intensity and frequency increases down section, very low to absent (<2%) mafic chloritized component, pervasive 1-2% fine sooty dark spots (1-3 mm) through groundmass, mainly hematite with local indistiguishable chalcocite +/- bornite association, minor sporadic qtz veins 1-4 cms, generally at 70 degees to core axis, locally to 40 degrees , 2-3% muscovite books(1-5 mm) through, less altered rock, @ 20 m: 1 cm qtz vn at 40 degrees top c.a with minor chalcocite blebs along upper selvage (2 mm wide), @ 22.5-23.4: strong to intense mottled qtz-sericite with increased muscovite with numerous fine blebs and patches of c								2		2	2	1	1	1
97.00	102.90	Brown felsic dyke: plag + quartz porphyritic with brown cryptocrystalline siliceous medium brown matrix, upper chilled margin (40 cms @ 97.0-97.4) lacking phenos with conspicuous chalcocite +/- bornite in fine fracture fillings, aphanitic, weakly porphyritic lower chill margin @ 102.7-102.9, moderately broken with broken sharp contact @ 102.9, plag texture is mainly crowded euhedral plag phenos, 2-5 mm, with pale greenish weak clay +/- seric alt'n, scattered diffuse quartz eyes/blebs through groundmass, 3-10 mm, indistinct mafic component 1-2% with pervasive chlor +/- qtz +/- hematite replacements, @98.8-99.7: mod-strongly broken with weak bleaching and minor localized gougy fractures													1	
102.90	143.30	Similar alteration as above dike (12.2-97.0) ; pervasive weak to moderate qtz-seric alteration obliterating primary intrusive rock textures, minor sporadic salmon colored patches, moderately to locally strongly broken with minor locally bleached areas around minor narrow gouge zones (5-20 cms), wk - negligible mafic component (chloritized), pervasive fine hematite spots to local fine patches/veinlets/fracture fills of hematite, fractures variable at 40-70 degrees to core axis, negligible veining throughout, @ 137.2m -1 cm qtz -carb veinlet at 30 degrees to core axis w. gougy margins and hematite halo 10 cm below vn, well defined 13 cm gouge band @ 133.2 m @ 70 degrees to c. axis,								2		2	2	1	1	1
143.30	146.80	Abrupt alteration change: conspicuous blebby quartz texture with increased pervasive fine chlorite through groundmass, chlorite is generally associated with increased fine reddish hematite, several sporadic epidote bands or fine patches through section, sericite diminished from previous section, lower contact of chloritic alteration is marked by 5 cm sericite gouge band								2		1	1		2	
146.80	168.30	Weak-moderate qtz-sericite alteration, mod-strongly broken, @ 163.2-166.8; strong to intensively broken with numerous gouge areas, negligible mafics, approx 1 % f.g disseminated hematite specs								2		2	1		1	
	EOH															

Appendix 2

Assay Certificates

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9001 Accredited Co.)

ASSAY CERTIFICATE

Happy Creek Minerals Ltd. PROJECT RATERIA File # A608653R

2304 - 1066 W. Hastings S, Vancouver BC V6E 3X2 Submitted by: David Blann

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	Hg %
4809	<.001	.119	<.01	<.01	<2	<.001	<.001	.09	1.22	<.01	.011	<.001	<.001	<.01	2.40	.042	.001	.30	.73	.05	.36	<.001	<.001
4810	<.001	.040	<.01	<.01	<2	<.001	<.001	.06	1.16	<.01	.010	<.001	.001	<.01	1.81	.036	.001	.35	1.00	.13	.40	<.001	<.001
RE 4810	<.001	.041	<.01	<.01	<2	<.001	<.001	.06	1.16	<.01	.010	<.001	.002	<.01	1.84	.036	.001	.35	1.04	.13	.40	<.001	<.001
4811	<.001	.055	<.01	<.01	<2	<.001	<.001	.08	1.24	<.01	.011	<.001	.001	<.01	2.12	.040	.001	.32	1.02	.11	.42	<.001	<.001
4812	<.001	.049	<.01	<.01	<2	<.001	<.001	.08	1.09	<.01	.011	<.001	<.001	<.01	2.56	.044	.001	.23	1.08	.09	.53	<.001	<.001
4813	<.001	3.884	<.01	<.01	124	<.001	<.001	.09	1.04	<.01	.008	<.001	.001	<.01	2.06	.039	.001	.12	1.24	.03	.81	<.001	<.001
4814	<.001	.045	<.01	<.01	<2	<.001	<.001	.12	1.29	<.01	.013	<.001	.001	<.01	2.76	.040	.001	.27	1.16	.09	.46	<.001	<.001
4815	<.001	.054	<.01	<.01	<2	<.001	<.001	.08	1.14	<.01	.013	<.001	.001	<.01	2.51	.042	.001	.21	1.11	.09	.48	<.001	<.001
4816	<.001	.100	<.01	<.01	<2	<.001	<.001	.11	1.13	<.01	.012	<.001	.001	<.01	2.90	.039	.001	.34	1.14	.07	.59	<.001	<.001
4817	<.001	.033	<.01	<.01	<2	<.001	<.001	.11	1.04	<.01	.014	<.001	.001	<.01	3.01	.042	.001	.24	1.15	.07	.57	<.001	<.001
4818	<.001	.020	<.01	<.01	<2	<.001	<.001	.08	1.22	<.01	.014	<.001	.002	<.01	2.30	.043	.001	.24	1.08	.10	.49	<.001	<.001
4819	<.001	.127	<.01	<.01	<2	<.001	<.001	.10	1.08	<.01	.013	<.001	.001	<.01	2.36	.041	<.001	.21	1.15	.08	.61	<.001	<.001
4820	<.001	.059	<.01	<.01	<2	<.001	<.001	.10	1.16	<.01	.011	<.001	<.001	<.01	2.24	.046	.001	.21	1.08	.08	.52	.001	<.001
4821	<.001	.153	<.01	<.01	<2	<.001	<.001	.09	.77	<.01	.010	<.001	.001	<.01	2.12	.039	.001	.12	1.11	.08	.56	<.001	<.001
4822	.002	.151	<.01	<.01	<2	<.001	<.001	.08	.42	<.01	.008	<.001	.001	<.01	1.79	.011	.001	.08	1.20	.07	.73	<.001	<.001
4823	.001	.066	<.01	<.01	<2	<.001	<.001	.05	.33	<.01	.007	<.001	.001	<.01	1.62	.009	<.001	.06	.88	.07	.54	<.001	<.001
4824	<.001	.064	<.01	<.01	<2	<.001	<.001	.07	.90	<.01	.009	<.001	<.001	<.01	2.00	.032	.001	.18	1.02	.06	.54	<.001	<.001
4825	<.001	.060	<.01	<.01	<2	<.001	<.001	.08	1.21	<.01	.013	<.001	.001	<.01	2.43	.045	.001	.19	1.15	.09	.58	<.001	<.001
4826	<.001	.038	<.01	<.01	<2	<.001	<.001	.06	1.18	<.01	.013	<.001	<.001	<.01	1.85	.041	<.001	.28	.99	.10	.45	<.001	<.001
4827	<.001	.035	<.01	<.01	<2	<.001	<.001	.06	1.08	<.01	.013	<.001	.001	<.01	1.93	.037	.001	.27	1.01	.11	.44	<.001	<.001
4828	<.001	.143	<.01	<.01	<2	<.001	<.001	.09	1.23	<.01	.016	<.001	<.001	<.01	2.54	.040	.001	.31	1.07	.09	.53	<.001	<.001
4829	<.001	.130	<.01	<.01	<2	<.001	<.001	.09	1.18	<.01	.012	<.001	<.001	<.01	2.01	.040	.001	.26	1.18	.12	.55	<.001	<.001
4830	<.001	.112	<.01	<.01	<2	<.001	<.001	.08	1.29	<.01	.016	<.001	.001	<.01	2.43	.040	.001	.22	1.07	.10	.52	<.001	<.001
4831	.001	.223	<.01	<.01	2	<.001	<.001	.11	1.23	<.01	.014	<.001	<.001	<.01	2.68	.039	<.001	.27	1.14	.06	.63	<.001	<.001
4832	.001	.185	<.01	<.01	2	<.001	<.001	.16	1.45	<.01	.021	<.001	.001	<.01	4.01	.038	.001	.46	1.06	.05	.60	<.001	<.001
4833	<.001	.146	<.01	<.01	2	<.001	<.001	.10	1.09	<.01	.013	<.001	.001	<.01	2.60	.042	.001	.20	1.20	.07	.67	<.001	<.001
4834	.001	.297	<.01	<.01	3	<.001	<.001	.10	1.22	<.01	.011	<.001	.001	<.01	2.35	.045	.001	.19	1.15	.08	.63	<.001	<.001
4835	<.001	.447	<.01	<.01	7	<.001	<.001	.11	1.15	<.01	.014	<.001	<.001	<.01	2.81	.042	<.001	.21	1.37	.07	.73	.001	<.001
4836	<.001	.082	<.01	<.01	<2	<.001	<.001	.07	.70	<.01	.010	<.001	.001	<.01	2.18	.029	<.001	.12	1.00	.09	.54	<.001	<.001
4837	<.001	.022	<.01	<.01	<2	<.001	<.001	.06	1.20	<.01	.013	<.001	<.001	<.01	2.12	.042	.001	.26	.98	.11	.35	<.001	<.001
4838	<.001	.251	<.01	<.01	3	<.001	<.001	.06	.95	<.01	.010	<.001	.001	<.01	1.82	.029	.001	.16	1.16	.09	.50	<.001	<.001
4839	<.001	.098	<.01	<.01	<2	<.001	<.001	.08	1.39	<.01	.012	<.001	<.001	<.01	1.99	.042	.001	.35	1.20	.10	.41	<.001	<.001
STANDARD R-3	.073	.812	1.98	4.05	194	.527	.061	.07	31.02	.04	.003	.023	.038	<.01	1.34	.047	.013	1.08	1.14	.04	.44	<.001	.002

GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES.
- SAMPLE TYPE: CORE PULP Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA DATE RECEIVED: JAN 8 2007 DATE REPORT MAILED: JAN 16 2007

BRITISH COLUMBIA CERTIFIED ASSAYER
Raymond Chan

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9001 Accredited Co.)

ASSAY CERTIFICATE

Happy Creek Minerals Ltd. PROJECT RATERIA File # A608504R Page 1

2304 - 1066 W. Hastings S, Vancouver BC V6E 3X2 Submitted by: David Blann

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	Hg %
4189	<.001	.077	<.01	<.01	<2	<.001	<.001	.07	1.20	<.01	.009	<.001	<.001	<.01	2.26	.041	.001	.24	.77	.06	.38	<.001	<.001
4190	<.001	.008	<.01	<.01	<2	<.001	<.001	.06	1.35	<.01	.010	<.001	.001	<.01	1.84	.037	.001	.31	.74	.09	.29	<.001	<.001
4191	<.001	.054	<.01	<.01	3	<.001	<.001	.15	1.42	<.01	.018	<.001	.001	<.01	3.79	.038	.001	.36	.62	.04	.37	<.001	<.001
4192	<.001	.038	<.01	<.01	<2	<.001	<.001	.10	1.16	<.01	.011	<.001	<.001	<.01	2.56	.044	.001	.20	.70	.05	.41	<.001	<.001
4193	<.001	.029	<.01	<.01	<2	<.001	<.001	.08	1.32	<.01	.012	<.001	.001	<.01	2.31	.047	.001	.32	.73	.06	.37	.001	<.001
4194	<.001	.031	<.01	<.01	<2	<.001	<.001	.10	1.24	<.01	.011	<.001	<.001	<.01	2.60	.040	.001	.19	.77	.05	.37	<.001	<.001
4195	<.001	.055	<.01	<.01	<2	<.001	<.001	.08	1.30	<.01	.010	<.001	<.001	<.01	2.30	.044	<.001	.23	.77	.06	.38	<.001	<.001
4196	<.001	.028	<.01	<.01	<2	<.001	<.001	.06	1.24	<.01	.010	<.001	.001	<.01	2.10	.046	<.001	.22	.72	.08	.29	<.001	<.001
4197	<.001	.215	<.01	<.01	3	<.001	<.001	.09	1.14	<.01	.010	<.001	.001	<.01	2.42	.043	.001	.26	.67	.04	.40	<.001	<.001
4198	.001	.092	<.01	<.01	<2	<.001	<.001	.12	1.09	<.01	.011	<.001	<.001	<.01	2.82	.041	<.001	.19	.73	.04	.45	<.001	<.001
4199(pulp)	.073	.763	.01	<.01	69	.001	<.001	.02	.93	.01	.017	<.001	.015	<.01	1.09	.033	.024	.11	.37	.04	.21	<.001	<.001
4200	.001	.135	<.01	<.01	2	<.001	<.001	.12	1.04	<.01	.009	<.001	.001	<.01	2.66	.040	.001	.15	.80	.03	.54	.001	<.001
4201	.001	.146	<.01	<.01	<2	<.001	<.001	.12	1.21	<.01	.010	<.001	<.001	<.01	2.58	.041	.001	.20	.69	.05	.41	<.001	<.001
4202	.001	.046	<.01	<.01	2	<.001	<.001	.12	1.25	<.01	.012	<.001	<.001	<.01	2.65	.044	<.001	.24	.63	.04	.41	<.001	<.001
4203	<.001	.064	<.01	<.01	<2	<.001	<.001	.09	1.30	<.01	.013	<.001	.001	<.01	2.51	.045	.001	.23	.72	.05	.36	<.001	<.001
4204	<.001	.063	<.01	<.01	<2	<.001	<.001	.08	1.21	<.01	.014	<.001	<.001	<.01	2.41	.042	.001	.25	.67	.05	.38	<.001	<.001
4205(rock)	<.001	.003	<.01	<.01	<2	<.001	.001	.06	3.14	<.01	.007	<.001	<.001	<.01	.96	.048	.001	1.02	1.96	.26	.15	.001	<.001
4206	<.001	.108	<.01	<.01	<2	<.001	<.001	.10	1.07	<.01	.014	<.001	.001	<.01	2.60	.040	.001	.17	.72	.04	.48	<.001	<.001
4207	<.001	.122	<.01	<.01	2	<.001	<.001	.06	.41	<.01	.007	<.001	.001	<.01	1.75	.008	<.001	.04	.65	.05	.47	<.001	<.001
4208	.001	.061	<.01	<.01	<2	<.001	<.001	.05	.32	<.01	.007	<.001	<.001	<.01	1.72	.011	.001	.04	.64	.04	.49	<.001	<.001
4209	.001	.099	<.01	<.01	2	<.001	<.001	.06	.36	<.01	.008	<.001	<.001	<.01	2.02	.010	<.001	.06	.62	.05	.43	<.001	<.001
4210	<.001	.038	<.01	<.01	<2	<.001	<.001	.06	.37	<.01	.010	<.001	.001	<.01	2.03	.010	<.001	.06	.66	.06	.43	<.001	<.001
4211	.003	.063	<.01	<.01	<2	<.001	<.001	.07	.39	<.01	.013	<.001	<.001	<.01	2.58	.011	.001	.06	.63	.04	.43	.001	<.001
4212	<.001	.038	<.01	<.01	<2	<.001	<.001	.08	.60	<.01	.011	<.001	.001	<.01	2.76	.019	<.001	.11	.74	.05	.45	<.001	<.001
4213	.001	.026	<.01	<.01	<2	<.001	<.001	.05	.33	<.01	.008	<.001	.002	<.01	1.81	.008	<.001	.06	.59	.05	.40	<.001	<.001
4214	<.001	.084	<.01	<.01	<2	<.001	<.001	.07	.87	<.01	.011	<.001	<.001	<.01	2.60	.032	<.001	.18	.62	.04	.39	<.001	<.001
4215	<.001	.005	<.01	<.01	<2	<.001	<.001	.06	1.28	<.01	.015	<.001	<.001	<.01	2.09	.039	.001	.26	.77	.07	.24	<.001	<.001
4216	.001	.094	<.01	<.01	<2	<.001	<.001	.11	1.05	<.01	.011	<.001	<.001	<.01	2.95	.037	<.001	.18	.72	.03	.52	<.001	<.001
4217	.002	.256	<.01	<.01	4	<.001	<.001	.11	1.04	<.01	.010	<.001	<.001	<.01	2.65	.038	<.001	.15	.83	.02	.63	<.001	<.001
RE 4217	.002	.259	<.01	<.01	5	<.001	<.001	.11	1.04	<.01	.010	<.001	.001	<.01	2.65	.036	.001	.15	.86	.02	.64	<.001	<.001
4218	.001	.042	<.01	<.01	<2	<.001	<.001	.07	1.24	<.01	.011	<.001	<.001	<.01	1.92	.039	<.001	.25	.78	.07	.36	<.001	<.001
4219	.004	.171	<.01	<.01	2	<.001	<.001	.11	1.20	<.01	.012	<.001	.001	<.01	2.66	.041	<.001	.20	.74	.04	.51	<.001	<.001
4220	.002	.175	<.01	<.01	2	<.001	<.001	.10	1.20	<.01	.012	<.001	<.001	<.01	2.44	.042	<.001	.20	.78	.03	.56	<.001	<.001
4221	.001	.175	<.01	<.01	2	<.001	<.001	.11	1.16	<.01	.013	<.001	<.001	<.01	2.80	.042	<.001	.17	.75	.03	.54	<.001	<.001
4222	.002	.216	<.01	<.01	3	.001	<.001	.10	1.38	<.01	.012	<.001	<.001	<.01	2.53	.047	<.001	.21	.78	.03	.52	<.001	<.001
4223	.001	.298	<.01	<.01	5	<.001	<.001	.12	1.23	<.01	.010	<.001	.001	<.01	2.63	.039	<.001	.17	.73	.02	.53	<.001	<.001
4224	.001	.117	<.01	<.01	<2	<.001	<.001	.11	.93	<.01	.011	<.001	.001	<.01	2.56	.040	.001	.12	.70	.02	.55	<.001	<.001
STANDARD R-3	.077	.824	1.99	4.03	197	.548	.062	.07	31.99	.04	.003	.023	.040	<.01	1.35	.050	.012	1.07	1.13	.04	.44	.006	.002

GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES.
- SAMPLE TYPE: CORE PULP Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ✓ FA ____ DATE RECEIVED: JAN 8 2007 DATE REPORT MAILED: .... JAN 17 2007

BRITISH COLUMBIA CERTIFIED ASSAYER
Raymond Chan

ACME ANALYTICAL

Happy Creek Minerals Ltd. PROJECT RATERIA FILE # A608504R

ACME ANALYTICAL

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	Hg %
4225	.001	.481	<.01	<.01	7	<.001	<.001	.12	1.08	<.01	.008	<.001	<.001	<.01	2.53	.038	<.001	.13	.64	.01	.53	<.001	<.001
4226	.002	.225	<.01	<.01	2	<.001	.001	.13	1.30	<.01	.008	<.001	.001	<.01	2.63	.042	<.001	.16	.73	.02	.61	<.001	.001
4227	<.001	.126	<.01	<.01	<2	<.001	<.001	.09	1.17	<.01	.014	<.001	.001	<.01	2.72	.043	<.001	.18	.69	.03	.42	<.001	<.001
4228	<.001	.035	<.01	<.01	<2	<.001	.001	.07	1.32	<.01	.013	<.001	.001	<.01	2.10	.045	<.001	.25	.72	.06	.34	<.001	<.001
4229	<.001	.183	<.01	<.01	2	<.001	<.001	.08	1.26	<.01	.012	<.001	<.001	<.01	2.12	.043	<.001	.24	.46	.03	.27	<.001	<.001
4230	.002	1.071	<.01	<.01	11	<.001	<.001	.12	1.28	<.01	.011	<.001	<.001	<.01	2.80	.043	<.001	.21	.38	.02	.35	<.001	.001
4231	.002	.122	<.01	<.01	<2	<.001	<.001	.11	1.19	<.01	.011	<.001	.001	<.01	2.71	.045	<.001	.19	.43	.02	.35	<.001	.001
4232	.001	.211	<.01	<.01	<2	<.001	<.001	.12	1.27	<.01	.015	<.001	.001	<.01	3.29	.043	.001	.25	.45	.02	.37	<.001	<.001
4233	<.001	.068	<.01	<.01	<2	<.001	<.001	.07	1.26	<.01	.015	<.001	<.001	<.01	2.16	.042	<.001	.30	.51	.03	.30	<.001	<.001
STANDARD R-3	.077	.806	1.96	3.97	196	.536	.060	.07	31.25	.04	.003	.023	.039	<.01	1.29	.049	.012	1.05	1.08	.04	.43	.001	.003

Sample type: CORE PULP.

Data ___ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9001 Accredited Co.)

ASSAY CERTIFICATE

Happy Creek Minerals Ltd. PROJECT RATERIA File # A608608R

2304 - 1066 W. Hastings S, Vancouver BC V6E 3X2 Submitted by: N/ A

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	Hg %
4595	<.001	.137	<.01	<.01	2	<.001	<.001	.10	1.21	<.01	.005	<.001	<.001	<.01	2.40	.048	.001	.26	.61	.04	.28	<.001	<.001
4596	<.001	.019	<.01	<.01	<2	<.001	<.001	.07	1.48	<.01	.006	<.001	<.001	<.01	1.38	.048	.001	.41	.72	.07	.18	.001	<.001
4597	<.001	.064	<.01	<.01	<2	<.001	<.001	.07	1.33	<.01	.006	<.001	<.001	<.01	1.83	.047	<.001	.32	.67	.06	.25	<.001	<.001
4598	<.001	.045	<.01	<.01	<2	<.001	<.001	.08	1.26	<.01	.007	<.001	<.001	<.01	2.15	.047	<.001	.30	.54	.05	.25	<.001	<.001
4599	<.001	.051	<.01	<.01	<2	<.001	<.001	.08	1.20	<.01	.007	<.001	<.001	<.01	2.54	.046	<.001	.21	.48	.05	.30	.001	<.001
4600	<.001	.039	<.01	<.01	<2	<.001	<.001	.10	1.26	<.01	.007	<.001	<.001	<.01	2.62	.049	<.001	.32	.66	.04	.26	.001	<.001
4601	<.001	.066	<.01	<.01	<2	<.001	<.001	.08	1.15	<.01	.007	<.001	.001	<.01	2.31	.047	<.001	.21	.51	.04	.27	.001	<.001
4602	<.001	.384	<.01	<.01	2	<.001	.001	.09	1.32	<.01	.009	<.001	<.001	<.01	2.26	.056	<.001	.35	.83	.04	.36	<.001	<.001
4603	<.001	.037	<.01	<.01	<2	<.001	<.001	.06	1.28	<.01	.008	<.001	.002	<.01	1.89	.048	<.001	.41	.81	.05	.25	<.001	<.001
4604(pulp)	.034	.185	.01	.02	33	.008	.003	.10	6.99	.03	.014	<.001	.009	.02	9.54	.084	.006	.39	1.77	.05	.20	.006	.001
4605(rock)	<.001	.012	<.01	<.01	<2	.001	.001	.03	2.61	<.01	.003	<.001	.001	<.01	.85	.061	.002	.67	1.11	.10	.36	.001	<.001
4606	<.001	.087	<.01	<.01	<2	<.001	.001	.06	1.26	<.01	.007	<.001	.001	<.01	1.59	.046	<.001	.34	.75	.05	.30	.001	<.001
4607	<.001	.166	<.01	<.01	2	<.001	<.001	.07	1.14	<.01	.007	<.001	<.001	<.01	1.79	.045	<.001	.31	.64	.03	.28	.001	<.001
4608	<.001	.042	<.01	<.01	<2	<.001	.001	.08	1.38	<.01	.009	<.001	<.001	<.01	2.34	.052	<.001	.38	.76	.05	.26	.001	<.001
RE 4608	<.001	.042	<.01	<.01	<2	<.001	<.001	.08	1.36	<.01	.008	<.001	<.001	<.01	2.35	.049	<.001	.38	.74	.05	.26	.001	<.001
4609	<.001	.003	<.01	<.01	<2	<.001	<.001	.07	1.28	<.01	.008	<.001	<.001	<.01	1.94	.049	<.001	.34	.67	.04	.28	.001	<.001
4610	<.001	.368	<.01	<.01	5	<.001	<.001	.09	1.07	<.01	.006	<.001	<.001	<.01	2.05	.035	<.001	.24	.58	.03	.29	.001	<.001
4611	<.001	.108	<.01	<.01	<2	<.001	<.001	.07	1.18	<.01	.006	<.001	<.001	<.01	1.69	.040	<.001	.29	.65	.04	.32	<.001	<.001
4612	<.001	.020	<.01	<.01	<2	<.001	<.001	.06	1.59	<.01	.007	<.001	<.001	<.01	1.19	.047	<.001	.45	.78	.07	.19	.001	<.001
4613	<.001	.083	<.01	<.01	<2	<.001	<.001	.06	1.12	<.01	.006	<.001	<.001	<.01	1.74	.035	<.001	.25	.63	.05	.29	.001	<.001
4614	<.001	.007	<.01	<.01	<2	<.001	<.001	.06	1.33	<.01	.008	<.001	<.001	<.01	1.63	.043	<.001	.34	.69	.06	.20	.001	<.001
4615	<.001	.012	<.01	<.01	<2	<.001	<.001	.06	1.21	<.01	.008	<.001	<.001	<.01	2.06	.045	<.001	.26	.68	.05	.30	.001	<.001
4616	<.001	.052	<.01	<.01	<2	<.001	<.001	.06	.62	<.01	.005	<.001	<.001	<.01	1.72	.015	<.001	.15	.45	.03	.26	.001	<.001
4617	<.001	.030	<.01	<.01	<2	<.001	<.001	.05	.43	<.01	.006	<.001	<.001	<.01	1.59	.014	<.001	.07	.41	.05	.31	.001	<.001
4618	<.001	.031	<.01	<.01	<2	<.001	<.001	.08	.69	<.01	.006	<.001	.001	<.01	2.24	.017	<.001	.19	.54	.04	.29	.001	<.001
4619	<.001	.167	<.01	<.01	<2	<.001	<.001	.06	.82	<.01	.014	<.001	.002	<.01	2.12	.032	<.001	.19	.66	.04	.26	<.001	<.001
4620	<.001	.005	<.01	<.01	<2	<.001	<.001	.06	1.14	<.01	.007	<.001	<.001	<.01	1.86	.043	<.001	.28	.67	.05	.25	.001	<.001
4621	<.001	.003	<.01	<.01	<2	<.001	<.001	.05	1.34	<.01	.008	<.001	<.001	<.01	1.75	.046	<.001	.28	.65	.06	.26	<.001	<.001
4622	<.001	.017	<.01	<.01	<2	<.001	<.001	.06	1.25	<.01	.010	<.001	<.001	<.01	1.81	.044	<.001	.32	.67	.06	.24	.001	<.001
4623	<.001	.063	<.01	<.01	<2	<.001	<.001	.06	1.42	<.01	.012	<.001	<.001	<.01	1.71	.045	<.001	.32	.75	.06	.30	<.001	<.001
4624	<.001	.077	<.01	<.01	<2	<.001	<.001	.11	1.11	<.01	.012	<.001	<.001	<.01	2.73	.044	<.001	.23	.63	.03	.33	<.001	<.001
STANDARD R-3	.075	.820	2.00	4.01	201	.541	.060	.07	30.50	.04	.003	.023	.040	<.01	1.34	.050	.012	1.07	1.11	.04	.44	.002	.002

GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES.
- SAMPLE TYPE: CORE PULP Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA ____ DATE RECEIVED: JAN 8 2007 DATE REPORT MAILED: JAN 12 2007

BRITISH COLUMBIA CERTIFIED ASSAYER
Raymond Chan

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9001 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Happy Creek Minerals Ltd. PROJECT RATERIA File # A607848

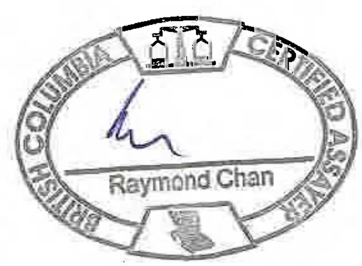
2304 - 1066 W. Hastings S, Vancouver BC V6E 3A2 Submitted by: David Blann

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
G-1	.5	5.2	3.2	43	<.1	7.6	5.4	523	1.98	.6	2.5	<.5	3.8	55	<.1	.1	.1	40	.49	.077	6	8	.64	183	.115	1	1.04	.065	.47	.2	<.01	1.9	.3	<.05	5	<.5
151171	3.5	61.8	2.4	26	<.1	2.0	2.5	1208	.88	<.5	.4	<.5	1.2	90	.1	.1	<.1	12	2.88	.049	6	5	.09	205	.001	2	.25	.007	.20	.1	<.01	.9	<.1	<.05	1	<.5
151172	1.4	430.3	2.3	43	.2	5.9	9.2	615	2.27	1.4	.4	2.6	1.6	35	<.1	.1	.1	55	1.96	.084	7	5	.19	147	.002	1	.48	.021	.10	.2	.03	3.4	<.1	<.05	2	<.5
151173	10.9	2719.8	2.5	34	1.2	7.4	8.7	727	2.37	6.2	.5	10.6	2.2	24	<.1	1.8	1.9	61	1.12	.070	10	6	.07	76	.004	4	.52	.009	.15	3.6	.01	4.1	<.1	<.05	2	<.5
151174	3.5	658.5	1.6	23	.3	3.4	2.3	344	1.06	1.4	.2	2.0	1.1	44	.1	<.1	.3	25	1.98	.053	4	4	.06	705	.001	2	.46	.021	.13	2.1	.02	2.4	<.1	<.05	1	<.5
151175	.9	252.2	2.7	53	.1	9.6	12.2	670	2.35	.9	.9	2.4	1.8	79	<.1	.1	.1	48	3.73	.052	7	6	1.54	105	.022	1	.60	.037	.07	.1	.04	2.5	<.1	<.05	3	<.5
151176	1.0	111.0	1.6	9	<.1	2.3	1.4	259	.64	1.4	.2	<.5	2.8	22	<.1	.3	<.1	10	.47	.015	6	5	.03	93	.001	2	.24	.031	.09	.1	.01	.8	<.1	<.05	1	<.5
151177	.5	39.1	1.4	14	<.1	1.5	1.8	203	.68	1.2	.1	.8	1.6	23	<.1	.2	<.1	14	.73	.019	6	3	.05	63	.003	1	.26	.024	.07	.1	.01	1.0	<.1	<.05	1	<.5
51744	19.2	>10000	5.6	46	>100	4.7	3.9	145	2.03	182.7	11.5	1053.0	.6	8	.2	.7	132.4	9	.22	.014	2	7	.10	47	.001	1	.13	.007	.04	.2	13.48	1.0	.1	3.22	1	47.6
STANDARD DS7	20.9	109.8	72.4	417	.9	56.3	9.4	641	2.45	49.0	5.0	68.7	4.5	72	6.4	6.2	4.7	84	.95	.079	12	173	1.08	389	.125	40	1.00	.078	.47	4.0	.21	2.5	4.3	.20	5	3.6

GROUP 1DX - 15.0 GM SAMPLE LEACHED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 300 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: ROCK R150

11-10-06 [illegible]04:51 OUT

Data ✓ FA ____ DATE RECEIVED: OCT 16 2006 DATE REPORT MAILED:.................



ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9001 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Happy Creek Minerals Ltd. PROJECT RATERIA File # A608505

2304 - 1066 W. Hastings S, Vancouver BC V6E 3A2 Submitted by: David Blann

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm
G-1	1.5	3.1	2.7	50	<.1	8.4	4.9	563	2.02	<.5	3.0	14.8	4.1	70	<.1	<.1	.1
151178	1.2	64.5	.9	34	<.1	2.8	5.5	402	1.66	2.4	.3	<.5	1.3	37	<.1	.1	<.1
151179	2.9	39.5	.7	23	<.1	2.8	5.5	343	1.85	3.1	.4	1.4	1.4	33	<.1	.2	.1
151180	2.3	9.2	2.7	32	<.1	3.4	7.8	789	1.77	2.6	.5	<.5	1.6	49	<.1	1.4	.1
151181	1.8	662.9	2.3	43	.3	4.3	8.6	713	1.89	1.0	.3	4.0	1.4	39	<.1	.1	.2
151182	.5	56.5	1.9	36	<.1	9.6	10.8	389	2.34	1.8	.6	<.5	1.7	22	<.1	.2	<.1
STANDARD DS7	21.5	107.6	71.2	403	.9	58.9	10.1	645	2.48	47.5	5.0	74.2	4.5	72	6.3	6.0	4.6

SAMPLE#	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample kg
G-1	48	.60	.082	10	158	.60	253	.150	1	1.09	.111	.56	.1	<.01	2.7	.4	<.05	6	<.5	-
151178	53	.94	.054	6	4	.27	77	.023	1	.40	.054	.08	<.1	.01	3.1	<.1	<.05	2	<.5	4.00
151179	54	.26	.053	7	8	.18	89	.053	1	.46	.073	.10	.2	.01	2.5	<.1	<.05	3	<.5	1.80
151180	21	2.24	.026	15	2	.85	76	.002	2	.31	.022	.10	.2	.01	1.7	<.1	<.05	1	<.5	1.70
151181	35	2.55	.058	7	4	.27	189	.001	1	.45	.072	.11	.1	.04	3.6	<.1	<.05	2	<.5	2.90
151182	69	.42	.073	8	6	.45	82	.043	1	.79	.045	.06	.2	<.01	3.6	<.1	<.05	4	<.5	1.50
STANDARD DS7	86	.96	.077	14	273	1.08	379	.130	39	1.04	.090	.46	3.9	.20	2.6	4.2	.22	5	3.1	-

GROUP 1DX - 15.0 GM SAMPLE LEACHED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 300 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: ROCK R150

12-20-06 P01:52 OUT

Data___ FA ____ DATE RECEIVED: OCT 31 2006 DATE REPORT MAILED:.................

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9001 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Happy Creek Minerals Ltd. PROJECT RATERIA File # A608504 Page 1

2304 - 1066 W. Hastings S, Vancouver BC V6E 3A2 Submitted by: David Blann

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
G-1	.2	4.2	4.2	48	<.1	3.7	3.9	551	1.90	.5	3.1	1.1	4.2	95	<.1	<.1	.2	40	.64	.076	10	12	.58	239	.134	2	1.34	.161	.57	.1	<.01	2.9	.4	<.05	6	<.5
4165	.1	44.3	2.6	29	<.1	1.2	2.9	305	1.10	.7	1.2	2.1	2.4	114	.1	12.2	.1	26	.85	.035	7	5	.26	290	.023	3	.62	.063	.20	.1	<.01	1.1	<.1	<.05	3	<.5
4166	.5	10.2	3.2	12	<.1	1.2	2.1	721	.71	.9	1.8	<.5	1.7	194	.1	.1	<.1	9	3.11	.037	8	4	.15	642	.001	3	.52	.015	.31	.1	<.01	.9	<.1	<.05	1	<.5
4167	.2	25.2	5.5	18	<.1	.6	2.1	1141	.80	.6	.8	<.5	1.1	262	.1	.2	<.1	8	4.77	.045	8	3	.27	2308	<.001	3	.48	.009	.29	.1	<.01	1.1	<.1	<.05	1	<.5
4168	.3	2.5	3.3	33	<.1	1.2	3.7	567	1.03	1.0	.9	<.5	1.2	137	.1	.4	<.1	14	1.96	.059	8	4	.20	361	.001	2	.57	.034	.25	<.1	<.01	1.3	<.1	<.05	2	<.5
4169	.1	14.4	1.9	26	<.1	1.2	3.3	636	.98	.8	.7	<.5	1.3	172	.1	.3	<.1	15	2.19	.054	8	3	.31	2155	.003	3	.59	.028	.25	<.1	<.01	1.3	<.1	<.05	2	<.5
4170	.5	4.5	2.8	32	<.1	1.3	3.8	611	1.40	1.3	.8	<.5	1.2	181	.1	.2	<.1	24	2.25	.046	7	4	.43	426	.001	3	.73	.041	.22	<.1	<.01	1.7	<.1	<.05	2	<.5
4171	.1	3.2	3.9	22	<.1	.7	2.9	601	1.03	.9	.5	<.5	1.2	181	.1	.1	<.1	15	2.53	.056	9	3	.16	407	.001	3	.55	.024	.29	.1	<.01	1.4	<.1	<.05	1	.5
4172	.4	9.8	3.9	26	<.1	1.2	2.9	550	1.00	1.0	.6	<.5	1.0	201	.1	.1	<.1	17	2.22	.044	7	4	.15	2310	.001	2	.54	.023	.27	.1	<.01	1.3	<.1	<.05	2	<.5
4173 (rock)	.3	26.3	2.1	40	<.1	5.3	10.3	561	2.87	1.4	.9	<.5	3.8	66	<.1	.3	<.1	74	.95	.048	7	9	1.05	92	.178	1	1.93	.170	.14	.3	<.01	4.4	<.1	<.05	6	<.5
4174	.4	6.1	2.1	24	<.1	1.0	2.8	480	1.03	1.2	.5	<.5	1.0	167	.1	.1	<.1	20	1.96	.055	7	5	.18	370	.001	3	.59	.026	.30	.1	<.01	1.7	<.1	<.05	2	<.5
RE 4174	.4	5.9	1.8	23	<.1	1.0	2.9	479	1.02	1.1	.4	<.5	1.0	169	.1	.1	<.1	18	1.94	.053	6	4	.17	346	.001	3	.58	.026	.30	.1	<.01	1.6	<.1	<.05	2	<.5
RRE 4174	.2	7.1	2.2	23	<.1	.9	3.0	473	1.05	1.1	.5	<.5	1.0	167	<.1	.1	<.1	20	1.92	.053	6	5	.18	329	.001	3	.61	.027	.31	<.1	<.01	1.5	<.1	<.05	2	<.5
4175	.3	15.3	2.4	37	<.1	1.8	4.2	411	1.40	1.5	.6	.9	1.1	198	<.1	.4	<.1	32	1.40	.053	8	4	.37	447	.005	2	.73	.045	.18	<.1	<.01	1.6	<.1	<.05	4	<.5
4176	.2	34.5	1.9	34	<.1	1.6	4.0	406	1.48	.5	.8	<.5	1.2	187	<.1	.1	<.1	38	1.28	.047	6	5	.32	365	.025	3	.87	.054	.20	<.1	<.01	1.5	<.1	<.05	3	<.5
4177	.4	311.9	1.6	14	.2	.8	2.6	1177	.78	<.5	.5	<.5	1.1	129	<.1	.1	.1	9	2.77	.049	6	3	.19	835	.001	2	.64	.015	.35	.1	<.01	1.1	.1	<.05	2	<.5
4178	.8	1059.0	3.6	18	.8	.6	2.4	1173	.77	1.1	.7	<.5	1.0	216	.1	.1	.3	8	3.36	.034	5	3	.22	1451	.001	3	.62	.010	.31	.1	<.01	.9	.1	.06	1	<.5
4179	.3	3.8	3.5	26	<.1	.8	3.3	598	1.08	<.5	.5	<.5	1.1	187	.1	.1	<.1	16	2.39	.051	8	4	.19	472	.001	3	.61	.024	.32	.1	<.01	1.4	<.1	<.05	2	<.5
4180	.2	15.9	1.9	23	<.1	1.0	3.1	487	1.11	.8	.5	<.5	1.0	170	<.1	.2	<.1	18	1.84	.053	8	4	.24	475	.001	2	.61	.025	.27	<.1	<.01	1.1	<.1	<.05	2	<.5
4181	.5	28.1	2.4	30	<.1	1.6	3.4	487	1.20	1.1	.5	<.5	1.2	138	<.1	.4	<.1	27	1.77	.051	8	4	.26	337	.004	3	.64	.038	.24	.1	<.01	1.5	<.1	<.05	3	<.5
4182	.3	8.2	1.6	26	<.1	1.0	3.7	459	1.15	1.7	.5	<.5	1.2	139	<.1	.1	<.1	25	1.88	.049	8	4	.16	413	.001	5	.61	.033	.27	<.1	<.01	1.5	<.1	<.05	2	<.5
4183	.6	11.9	3.0	29	<.1	1.0	3.2	542	1.06	.7	.4	<.5	.9	208	.1	.2	<.1	19	2.22	.053	7	3	.17	307	.001	4	.68	.022	.32	.2	<.01	1.3	<.1	<.05	2	<.5
4184	.3	17.2	3.0	34	<.1	2.0	4.0	535	1.40	1.3	.6	<.5	1.1	136	<.1	.4	<.1	27	1.95	.050	8	4	.43	450	.001	3	.69	.045	.23	<.1	<.01	1.7	<.1	<.05	3	<.5
4185	.4	254.3	1.8	26	.2	1.5	3.5	475	1.23	1.0	.7	.7	1.6	142	<.1	.1	.1	24	1.52	.043	7	4	.22	288	.003	3	.62	.030	.24	<.1	<.01	1.4	<.1	<.05	3	.6
4186	.2	28.3	2.2	30	<.1	1.0	4.4	519	1.45	1.0	.9	<.5	1.5	215	<.1	.2	<.1	30	1.74	.049	7	5	.45	433	.004	2	.76	.045	.21	<.1	<.01	1.6	<.1	<.05	3	<.5
4187	.3	9.6	2.6	27	<.1	1.3	3.5	458	1.18	.8	.5	<.5	1.1	177	.1	.1	<.1	22	1.87	.047	8	4	.23	291	.001	3	.68	.026	.29	.1	<.01	1.4	<.1	<.05	2	<.5
4188	.3	22.8	1.9	27	<.1	1.5	3.8	542	1.13	1.3	.5	<.5	1.1	154	<.1	.1	<.1	24	1.96	.054	8	4	.20	301	.001	3	.63	.035	.30	<.1	<.01	1.5	<.1	<.05	2	.6
4189	.3	735.4	1.8	24	.4	1.0	3.2	689	1.08	<.5	.5	<.5	.9	69	<.1	.1	.1	19	2.04	.038	7	3	.23	221	.001	2	.67	.027	.28	<.1	.01	1.1	<.1	<.05	2	<.5
4190	.2	91.5	2.5	37	<.1	1.7	4.1	553	1.21	<.5	.7	<.5	1.3	92	<.1	.1	<.1	26	1.65	.044	8	4	.31	747	.003	4	.71	.047	.26	<.1	.01	1.4	<.1	<.05	3	.5
4191	1.0	522.0	4.0	47	.4	1.2	5.8	1393	1.31	<.5	1.1	<.5	1.0	165	.2	.1	<.1	18	3.29	.040	7	3	.37	1628	.001	4	.59	.018	.29	.1	.02	1.2	<.1	<.05	2	<.5
4192	.7	405.6	1.8	28	.3	1.1	3.6	898	1.11	<.5	.6	<.5	1.3	98	<.1	.1	<.1	20	2.37	.047	7	4	.21	225	.001	3	.68	.024	.34	<.1	.01	1.3	<.1	<.05	2	<.5
4193	1.8	305.8	2.2	32	.3	1.4	4.4	744	1.21	<.5	.8	<.5	1.2	107	<.1	.1	<.1	21	2.13	.048	7	4	.33	419	.001	3	.71	.031	.28	<.1	.01	1.4	<.1	<.05	2	<.5
4194	.3	334.1	1.8	27	.2	1.1	4.0	971	1.11	<.5	.5	<.5	1.4	97	<.1	.1	<.1	19	2.38	.043	8	3	.19	170	.001	3	.70	.021	.30	<.1	.01	1.2	<.1	<.05	2	<.5
4195	.6	545.1	1.6	25	.4	1.1	3.7	786	1.14	<.5	.6	<.5	1.0	97	<.1	.2	.1	23	2.08	.046	8	2	.23	158	.001	4	.69	.030	.31	<.1	.01	1.4	.1	<.05	2	<.5
4196	.2	293.9	1.5	24	.2	1.1	3.7	617	1.14	<.5	.7	<.5	1.0	92	<.1	.1	<.1	24	1.93	.044	8	4	.22	303	.001	3	.70	.038	.24	<.1	.01	1.1	<.1	<.05	3	<.5
STANDARD DS7	20.4	108.0	66.9	403	.8	56.6	9.8	652	2.50	49.7	4.8	68.1	4.7	85	6.5	6.1	4.4	85	1.00	.079	16	278	1.08	386	.129	42	1.20	.077	.47	3.8	.20	2.5	4.2	.20	5	3.7

GROUP 1DX - 15.0 GM SAMPLE LEACHED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 300 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: DRILL CORE R150 <u>Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.</u>

12-20-06 P01:49 OUT

Data ___ **FA** ___ **DATE RECEIVED:** OCT 31 2006 **DATE REPORT MAILED:**.................

BRITISH COLUMBIA CERTIFIED ASSAYER — Clarence Leong

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
G-1	.2	3.2	3.2	42	<.1	2.7	4.1	522	1.81	<.5	2.7	1.6	4.2	75	<.1	<.1	.2	38	.56	.075	9	13	.57	199	.129	2	1.08	.108	.50	.1	<.01	2.9	.3	<.05	5	.5
4197	1.1	2250.1	2.0	23	1.6	.6	3.5	896	1.00	<.5	.6	1.7	1.0	90	<.1	.2	.6	17	2.29	.046	7	3	.27	210	.001	2	.45	.019	.26	.1	.01	1.1	<.1	.06	1	<.5
4198	7.3	927.7	1.4	22	.6	.8	2.8	1133	.92	<.5	.5	<.5	1.0	94	<.1	.1	.2	17	2.57	.040	6	4	.19	130	.001	3	.46	.018	.26	<.1	.01	1.2	<.1	<.05	1	.6
4199 (pulp)	627.6	7293.4	118.8	67	76.6	5.7	1.8	235	.83	58.1	.9	33.8	.7	151	.9	150.8	6.2	9	1.06	.037	4	235	.11	126	.006	1	.27	.016	.15	.2	.40	.5	.1	.79	1	1.3
4200	8.6	1359.9	1.3	17	.8	.5	2.7	1240	.92	<.5	.4	<.5	1.2	77	<.1	.2	.2	15	2.54	.044	7	4	.16	132	.002	2	.50	.012	.30	<.1	.01	1.2	<.1	<.05	1	<.5
4201	9.2	1491.7	1.2	19	.8	.6	3.5	1148	1.08	<.5	.5	<.5	1.0	90	<.1	.1	.2	18	2.43	.042	7	4	.20	170	.001	3	.50	.020	.25	.1	.01	1.2	<.1	<.05	1	<.5
4202	3.5	446.2	1.5	29	.3	.8	4.5	1160	1.10	.7	.8	<.5	1.4	127	.1	.1	.1	21	2.53	.049	8	3	.25	285	.001	1	.46	.023	.30	<.1	.01	1.7	<.1	<.05	1	<.5
4203	.6	634.8	1.5	26	.4	.9	3.9	902	1.16	<.5	.6	1.1	1.3	114	<.1	.1	.1	19	2.39	.044	7	4	.24	143	.001	1	.54	.021	.23	.1	.01	1.4	.1	<.05	2	.7
4204	4.4	657.6	1.8	31	.4	1.0	4.5	810	1.08	.5	.6	<.5	1.6	143	<.1	.1	.1	21	2.26	.052	9	4	.25	292	.001	2	.49	.027	.29	<.1	.01	1.5	<.1	<.05	1	<.5
4205 (rock)	.5	34.3	1.8	38	<.1	4.2	10.7	534	2.77	.6	1.0	<.5	4.0	54	.1	.2	<.1	72	.79	.046	8	9	.98	71	.154	1	1.60	.155	.09	.2	<.01	3.9	<.1	<.05	5	<.5
4206	3.1	1141.1	2.1	26	1.1	.5	3.5	985	.96	<.5	.7	<.5	1.3	125	<.1	.1	.1	11	2.46	.044	7	2	.18	165	.001	3	.53	.016	.31	<.1	.01	1.0	<.1	<.05	1	<.5
RE 4206	3.2	1108.6	2.1	28	1.2	.4	3.1	975	.94	.5	.7	<.5	1.4	123	.1	.1	.1	11	2.43	.041	7	4	.18	168	.001	2	.51	.016	.32	<.1	.01	1.0	<.1	<.05	1	.5
RRE 4206	3.2	1093.8	2.2	28	1.2	.5	3.8	966	.98	.7	.7	<.5	1.4	126	.1	.1	.1	12	2.46	.043	7	4	.19	176	.001	2	.52	.017	.31	.1	.01	1.1	<.1	<.05	1	<.5
4207	4.1	1206.4	3.1	7	.9	.3	.6	581	.35	1.3	1.0	.8	2.9	67	.1	.1	.2	2	1.63	.009	8	4	.03	85	<.001	4	.44	.023	.30	.1	.03	.4	<.1	<.05	1	<.5
4208	3.6	610.3	1.8	7	.9	.5	.5	520	.27	.5	1.1	.8	3.0	67	.1	.1	.1	2	1.63	.010	7	4	.03	76	<.001	3	.44	.017	.33	.1	.03	.4	<.1	<.05	1	<.5
4209	11.8	981.3	1.8	5	1.5	<.1	.6	575	.30	1.0	1.0	<.5	2.5	79	.1	.1	.1	2	1.88	.009	6	4	.05	106	<.001	2	.40	.021	.27	.1	.02	.3	<.1	<.05	1	<.5
4210	2.0	379.5	2.1	6	.3	<.1	.8	560	.31	.6	.8	<.5	2.3	83	.1	.1	.1	2	1.89	.009	6	4	.04	83	<.001	3	.40	.024	.26	.2	.02	.4	<.1	<.05	1	<.5
4211	28.7	649.3	2.3	7	.9	<.1	.7	682	.33	<.5	1.1	<.5	2.4	127	.1	<.1	.1	2	2.39	.011	6	4	.05	971	<.001	2	.40	.021	.27	<.1	.03	.4	<.1	<.05	1	<.5
4212	2.8	392.1	3.9	19	.2	.4	1.6	759	.52	<.5	.7	1.3	1.9	108	.1	.1	.1	5	2.50	.019	6	3	.10	157	<.001	1	.49	.023	.28	.1	.04	.8	<.1	<.05	1	.5
4213	4.9	270.1	1.5	5	.3	.2	.6	450	.29	<.5	.7	<.5	2.6	75	<.1	.1	<.1	2	1.70	.007	5	3	.05	454	<.001	2	.42	.023	.26	<.1	.04	.4	<.1	<.05	1	<.5
4214	.8	851.3	2.7	21	.6	<.1	2.3	720	.75	.5	.7	<.5	1.9	106	.1	.1	.1	11	2.39	.032	7	3	.19	543	.001	3	.48	.020	.25	.1	.02	.9	<.1	<.05	1	.5
4215	.1	55.1	2.8	27	<.1	1.2	3.9	576	1.16	<.5	.7	<.5	1.7	144	<.1	.1	<.1	22	2.03	.043	8	4	.27	382	.001	2	.58	.035	.16	<.1	.04	1.7	<.1	<.05	2	<.5
4216	8.8	951.9	1.8	23	.9	.2	3.1	1136	.94	<.5	.5	<.5	1.5	99	.1	.1	.1	9	2.71	.035	7	4	.18	459	.001	3	.48	.010	.29	.1	.02	.9	<.1	<.05	1	<.5
4217	18.2	2559.7	2.1	22	3.4	.1	2.8	1074	.90	<.5	.5	1.1	1.9	94	.1	.1	.2	9	2.49	.037	7	4	.14	171	.001	2	.51	.007	.37	.1	.02	.8	<.1	.07	1	<.5
4218	2.4	433.7	1.9	24	.6	.9	3.5	692	1.14	.7	1.0	<.5	1.8	98	<.1	.1	.1	25	1.81	.041	7	4	.26	397	.009	3	.59	.030	.25	.1	.03	1.3	<.1	<.05	2	.6
4219	34.1	1806.0	1.6	20	1.4	.4	3.9	1116	1.11	<.5	.7	<.5	1.5	108	<.1	.1	.2	16	2.53	.042	7	4	.21	247	.001	2	.52	.016	.34	<.1	.04	1.3	<.1	.06	1	<.5
4220	18.0	1824.8	1.6	18	1.4	1.1	4.2	1040	1.11	1.0	.7	<.5	1.3	114	.1	.1	.2	14	2.37	.043	7	4	.21	130	.001	3	.53	.013	.37	<.1	.03	1.0	.1	<.05	1	<.5
4221	5.8	1752.9	1.9	18	1.5	.4	3.5	1044	1.01	<.5	.5	<.5	1.4	120	.1	.1	.2	10	2.58	.038	6	3	.17	123	.001	3	.49	.011	.32	.1	.03	1.0	<.1	<.05	1	.5
4222	15.0	2208.9	1.8	25	2.8	.7	4.6	1011	1.26	.5	.6	<.5	1.4	117	.1	.1	.2	15	2.36	.047	7	4	.22	72	.001	3	.57	.013	.32	.1	.04	1.1	<.1	.06	1	<.5
4223	7.7	2974.3	1.7	19	2.9	.5	3.6	1156	1.09	<.5	.6	<.5	1.7	93	.1	.1	.3	12	2.46	.039	6	3	.17	66	.001	2	.47	.008	.34	.1	.04	1.0	<.1	.09	1	<.5
4224	11.2	1185.8	1.8	19	1.5	.5	2.5	1045	.82	<.5	.5	.5	1.4	103	.1	.1	.1	8	2.35	.042	6	2	.12	93	.001	2	.45	.008	.33	.1	.03	.9	<.1	<.05	1	<.5
4225	12.0	4895.3	2.0	17	7.2	.3	3.1	1188	1.02	<.5	.5	1.2	1.4	73	.1	.1	.8	11	2.47	.042	6	3	.14	101	.001	3	.49	.005	.35	.1	.04	.9	<.1	.12	1	<.5
4226	18.5	2183.9	1.6	15	1.2	.5	3.5	1232	1.16	.5	.4	.5	1.2	73	<.1	.2	.3	15	2.40	.044	6	4	.16	95	.001	3	.58	.008	.38	.1	.03	1.0	<.1	.06	1	<.5
4227	.4	1260.6	2.0	21	1.4	.4	3.4	914	1.04	<.5	.5	<.5	1.0	136	.1	.1	.2	11	2.50	.041	6	3	.18	261	.001	2	.55	.016	.27	.1	.02	1.1	<.1	<.05	1	<.5
4228	1.7	358.7	1.6	26	.3	1.0	4.1	666	1.19	.5	.5	<.5	1.1	125	.1	.1	.1	20	1.99	.045	6	4	.26	279	.001	2	.58	.030	.23	<.1	.02	1.3	<.1	<.05	2	<.5
STANDARD DS7	21.6	109.1	69.9	419	.9	58.6	10.1	645	2.52	51.9	4.9	68.5	4.6	90	6.8	6.3	4.8	85	.98	.083	15	277	1.08	391	.141	41	1.05	.091	.47	4.1	.20	2.7	4.3	.21	5	3.5

Sample type: DRILL CORE R150. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data___ FA ____

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
G-1	1.1	4.3	3.5	51	<.1	4.5	4.8	537	1.94	.7	3.3	2.4	5.1	58	<.1	<.1	.1	43	.54	.083	9	15	.58	218	.139	1	1.01	.075	.50	.1	<.01	2.2	.4	<.05	5	<.5
4229	.5	1809.2	2.1	25	1.5	1.1	4.3	778	1.12	<.5	.6	1.3	1.2	102	<.1	.1	.3	18	2.05	.048	7	3	.24	243	.001	1	.33	.017	.16	<.1	.03	1.3	<.1	.06	1	<.5
4230	13.1	>10000	2.4	23	12.0	.4	4.1	1142	1.13	<.5	.8	1.8	1.1	88	.1	.1	1.4	10	2.55	.046	6	5	.21	113	.001	1	.25	.008	.20	<.1	.06	1.0	<.1	.29	1	<.5
4231	14.7	1216.3	2.0	25	.8	.7	3.9	1077	1.07	<.5	.5	.9	1.2	97	<.1	.1	.2	13	2.50	.049	7	4	.20	69	.001	2	.27	.011	.20	<.1	.02	1.0	<.1	<.05	1	<.5
4232	9.4	2109.8	2.7	27	1.5	.6	4.2	1142	1.17	.5	.8	.6	1.1	121	.1	.1	.3	12	3.05	.047	6	5	.25	208	.001	2	.30	.012	.23	.1	.02	1.1	<.1	.07	1	<.5
4233	.2	678.2	2.6	36	.8	.9	4.1	650	1.13	.6	.6	.5	1.4	123	.1	.1	.1	13	1.99	.047	8	4	.31	460	.001	2	.36	.017	.16	<.1	.02	1.2	<.1	<.05	1	<.5
4234	.6	57.4	2.3	33	<.1	.9	3.9	623	1.10	<.5	.5	<.5	1.2	116	<.1	.1	<.1	18	2.00	.046	8	5	.32	276	.001	1	.47	.023	.14	<.1	.01	1.4	<.1	<.05	2	<.5
4235	.3	135.5	2.0	30	<.1	1.0	4.0	651	1.19	<.5	.6	<.5	1.5	104	<.1	.1	<.1	20	2.13	.049	8	4	.32	306	.001	2	.45	.030	.15	<.1	.01	1.4	<.1	<.05	2	<.5
4236	1.0	71.2	2.1	33	<.1	1.4	4.4	518	1.30	.6	.7	.9	1.5	109	<.1	.1	<.1	24	1.64	.049	7	6	.35	257	.002	1	.52	.038	.12	<.1	.01	1.7	<.1	<.05	2	<.5
4237	.5	89.7	2.7	31	<.1	.8	3.9	714	1.07	<.5	.7	.5	1.2	152	.1	.3	<.1	13	2.42	.044	7	3	.27	234	.001	2	.35	.020	.14	<.1	<.01	1.2	<.1	<.05	1	<.5
4238	2.3	718.8	1.9	23	2.2	<.1	1.6	510	.52	1.9	.3	1.4	.5	76	.3	19.6	.2	3	1.55	.033	7	4	.09	166	<.001	2	.32	.015	.23	<.1	.13	.4	<.1	<.05	1	<.5
4239	.6	204.8	1.7	16	.2	.2	1.5	586	.55	.7	.2	<.5	.4	72	.1	.4	<.1	4	1.72	.030	7	2	.08	87	.001	1	.31	.022	.18	<.1	<.01	.4	<.1	<.05	1	<.5
4240	9.0	267.1	1.2	17	.7	.3	1.3	484	.52	1.1	.3	<.5	.4	60	.4	5.8	<.1	4	1.41	.031	8	4	.07	79	.001	1	.36	.015	.27	.1	.04	.4	<.1	<.05	1	<.5
4241 (pulp)	601.3	7704.1	121.7	65	77.8	5.0	1.6	230	.84	53.7	.9	44.1	.7	127	.6	143.8	6.4	8	1.08	.035	4	214	.11	125	.006	<1	.26	.016	.13	.2	.40	.5	.1	.82	1	1.1
4242	.7	74.0	1.9	23	.3	.6	3.4	533	.92	.6	1.0	<.5	3.1	70	.1	1.5	.2	8	1.64	.037	10	4	.21	38	.001	2	.27	.026	.16	.1	.05	.6	<.1	<.05	1	<.5
4243	.9	13.0	2.4	40	<.1	.3	4.0	823	.97	<.5	.9	<.5	2.6	94	.1	.2	<.1	5	2.38	.031	9	5	.29	49	.001	2	.29	.018	.19	.1	.01	.7	<.1	<.05	1	<.5
4244	.2	33.3	3.6	29	<.1	.5	3.9	809	.98	<.5	.5	<.5	1.1	119	.1	.2	<.1	5	2.67	.048	8	4	.32	123	.001	2	.30	.020	.19	.1	<.01	.8	<.1	<.05	1	<.5
RE 4244	.2	33.5	3.1	30	<.1	.6	4.1	811	.99	<.5	.5	<.5	1.0	120	.1	.2	<.1	5	2.67	.049	8	4	.32	124	.001	3	.30	.020	.19	.1	<.01	.7	<.1	<.05	1	<.5
RRE 4244	1.0	32.7	3.1	28	<.1	.5	4.0	788	.95	<.5	.5	<.5	1.1	118	.1	.1	<.1	5	2.62	.048	8	6	.30	106	.001	2	.30	.021	.18	<.1	.01	.8	<.1	<.05	1	<.5
4245	.3	238.5	2.2	30	.2	1.3	4.3	688	1.11	<.5	.5	<.5	1.1	102	<.1	.2	.1	13	2.32	.051	8	4	.26	109	.001	2	.39	.032	.15	.1	.01	.8	<.1	<.05	1	<.5
STANDARD DS7	21.5	107.6	71.2	403	.9	58.9	10.1	645	2.48	47.5	5.0	74.2	4.5	72	6.3	6.0	4.6	86	.96	.077	14	273	1.08	379	.130	39	1.04	.090	.46	3.9	.20	2.6	4.2	.22	5	3.1

Sample type: DRILL CORE R150. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9001 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Happy Creek Minerals Ltd. PROJECT RATERIA File # A608500 Page 1

2304 - 1066 W. Hastings S, Vancouver BC V6E 3A2 Submitted by: David Blann

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
G-1	.3	5.8	2.9	47	<.1	8.2	4.6	535	1.90	<.5	2.5	.6	4.1	50	<.1	<.1	.1	38	.51	.073	6	11	.62	206	.113	1	.93	.062	.50	.1	<.01	1.8	.3	<.05	4	<.5
4246	.3	16.8	2.3	30	<.1	6.8	4.5	561	1.23	<.5	.5	<.5	.9	131	.1	.4	.1	17	2.04	.047	6	7	.32	195	.001	1	.48	.034	.17	.1	<.01	1.2	<.1	<.05	1	<.5
4247	1.3	342.2	3.0	25	.3	2.8	3.8	758	1.13	<.5	.6	1.3	1.0	135	.1	.3	.1	11	2.43	.044	7	8	.24	320	.001	3	.44	.021	.26	<.1	.01	1.3	<.1	.08	1	<.5
4248	.3	50.2	2.4	21	<.1	1.1	2.7	730	.95	<.5	.5	<.5	.9	164	.1	.3	<.1	11	2.57	.045	6	5	.18	187	.001	2	.40	.018	.20	<.1	<.01	1.2	<.1	<.05	1	<.5
4249	.4	7.9	3.2	35	<.1	1.2	4.8	803	1.41	<.5	.6	<.5	1.0	190	.2	.2	<.1	14	2.87	.046	7	6	.43	935	.001	2	.48	.032	.20	<.1	<.01	1.3	<.1	.09	1	<.5
4250 (rock)	.3	20.2	1.7	42	<.1	5.1	10.0	542	2.72	<.5	.9	<.5	3.5	43	.1	.1	.1	69	.74	.050	5	9	.93	82	.125	<1	1.47	.136	.08	.1	<.01	3.3	<.1	<.05	5	<.5
4251	.5	73.7	2.0	31	<.1	1.5	4.1	599	1.24	<.5	.5	<.5	1.3	146	<.1	.1	.1	21	2.00	.047	6	7	.32	252	.002	1	.48	.036	.18	<.1	<.01	1.5	<.1	<.05	2	<.5
4252	.6	184.3	1.8	24	.1	1.4	4.4	727	1.21	<.5	.5	<.5	1.4	131	<.1	.1	.1	20	2.04	.046	7	5	.31	276	.001	2	.50	.032	.17	<.1	.01	1.3	.1	<.05	2	<.5
4253	.4	51.9	1.8	34	<.1	1.2	4.0	712	1.00	<.5	.5	<.5	1.6	130	<.1	.5	<.1	11	2.08	.054	8	5	.27	119	.001	2	.34	.029	.17	<.1	.01	1.0	<.1	<.05	1	<.5
4254	.2	11.6	2.7	22	<.1	1.0	3.1	491	1.01	<.5	.7	<.5	2.1	164	.1	.2	<.1	15	2.04	.052	9	6	.19	387	.001	2	.38	.032	.19	<.1	.01	1.3	<.1	<.05	1	<.5
4255	.5	401.4	2.6	23	.3	.8	3.4	850	1.09	<.5	.5	<.5	1.3	166	.1	.1	.1	10	2.67	.043	7	4	.30	520	.001	2	.35	.018	.17	<.1	<.01	.9	<.1	<.05	1	<.5
4256	.6	212.1	1.9	22	.1	1.0	4.0	657	1.12	<.5	.3	.7	1.0	154	<.1	.1	<.1	14	2.17	.046	7	5	.23	505	.001	2	.42	.023	.15	.1	<.01	1.2	<.1	<.05	1	<.5
4257	1.3	31.5	2.7	27	<.1	1.3	3.4	913	1.02	<.5	.3	<.5	1.0	207	.1	.2	<.1	11	2.82	.047	8	4	.21	392	.001	1	.39	.019	.22	.1	<.01	1.2	<.1	<.05	1	<.5
4258	.5	72.8	3.1	19	<.1	.7	3.1	855	1.03	<.5	.4	<.5	.7	225	.1	.2	<.1	9	2.98	.042	6	4	.31	1650	.001	2	.32	.017	.19	<.1	<.01	1.1	<.1	<.05	1	<.5
4259	.4	35.5	3.1	24	<.1	.8	3.5	550	1.20	<.5	.4	<.5	1.0	211	.1	.2	<.1	15	2.17	.050	8	5	.25	1076	.001	2	.42	.025	.21	<.1	<.01	1.4	<.1	<.05	1	<.5
4260	.2	233.6	3.2	25	.3	.8	3.2	627	1.09	<.5	.4	<.5	.9	188	.1	.2	<.1	12	2.35	.049	7	3	.28	366	.001	2	.37	.023	.18	.1	<.01	1.3	<.1	<.05	1	<.5
4261	.4	60.6	1.6	15	<.1	2.1	3.2	276	.97	.5	.6	<.5	1.9	90	<.1	.1	<.1	18	1.53	.034	5	6	.26	160	.005	2	.47	.042	.18	.2	.09	.9	<.1	<.05	1	<.5
4262	.6	25.7	1.8	31	<.1	3.1	5.9	555	1.32	.9	.9	<.5	2.1	85	.1	.1	<.1	21	2.81	.050	7	5	.46	123	.005	1	.46	.023	.15	.2	.04	1.7	<.1	<.05	1	<.5
4263	.4	23.6	1.8	32	<.1	5.3	8.1	463	1.94	<.5	.8	<.5	1.8	85	<.1	.1	<.1	42	2.94	.074	8	6	.52	147	.014	2	.80	.025	.21	.2	<.01	2.5	<.1	<.05	3	<.5
4264	.2	63.7	3.1	25	<.1	1.2	3.6	896	1.17	<.5	.4	<.5	1.0	211	.1	.2	<.1	9	3.10	.045	7	3	.30	755	<.001	2	.35	.015	.21	<.1	<.01	1.3	<.1	<.05	1	<.5
4265	.4	81.3	4.3	18	.1	.7	2.8	857	1.03	<.5	.4	<.5	.9	174	.1	.2	<.1	8	2.90	.047	7	4	.20	408	.001	3	.38	.015	.24	.1	<.01	1.1	<.1	<.05	1	<.5
4266	.3	25.2	1.8	33	<.1	5.6	8.7	472	2.00	<.5	.8	.6	1.8	88	<.1	.1	<.1	46	2.92	.073	8	8	.53	150	.016	2	.80	.025	.21	.2	.01	2.7	<.1	<.05	3	<.5
RE 4266	.3	25.8	1.7	33	<.1	5.6	8.9	477	2.02	.5	.8	.7	2.0	86	<.1	.1	<.1	44	2.96	.078	8	7	.54	156	.015	2	.81	.026	.20	.2	.01	2.6	<.1	<.05	3	<.5
RRE 4266	.4	23.8	1.7	34	<.1	5.8	8.2	475	2.06	<.5	.8	.8	1.8	88	<.1	.1	<.1	49	2.97	.074	9	8	.54	158	.016	2	.84	.026	.21	.2	.01	2.7	<.1	<.05	3	<.5
4267	.3	22.2	3.3	19	<.1	.6	3.5	615	1.07	<.5	.4	<.5	1.1	202	.1	.3	<.1	14	2.33	.050	7	5	.23	416	.001	2	.48	.028	.25	<.1	<.01	1.3	<.1	<.05	1	<.5
4268	.8	8.0	1.3	33	<.1	4.1	6.5	296	1.60	1.3	.6	<.5	1.5	70	<.1	.3	.1	35	1.45	.057	7	6	.49	273	.023	2	.73	.039	.14	.3	<.01	2.0	<.1	<.05	3	<.5
4269	1.5	115.0	2.0	30	<.1	5.8	5.7	347	1.52	.8	.7	1.0	1.3	91	<.1	.5	.2	27	2.13	.049	7	5	.45	81	.001	2	.69	.025	.18	.9	<.01	2.2	<.1	<.05	2	<.5
4270	1.1	7.1	2.3	32	<.1	4.1	7.0	373	1.70	1.3	1.1	<.5	2.0	93	<.1	.7	.4	35	2.26	.064	8	5	.47	75	.002	1	.92	.031	.14	.7	<.01	2.5	<.1	<.05	3	<.5
4271	1.5	21.0	2.5	28	<.1	3.7	7.2	338	1.64	.6	1.0	<.5	2.0	85	<.1	.2	<.1	36	2.13	.055	7	5	.42	168	.010	3	.68	.037	.18	3.1	<.01	2.2	<.1	<.05	2	.6
4272	.5	28.1	2.9	47	<.1	4.4	7.0	571	1.46	<.5	.8	.5	2.0	120	.1	.2	.1	23	3.09	.073	9	3	.46	90	.003	2	.61	.014	.27	.4	.01	2.4	.1	<.05	1	<.5
4273	.4	145.8	2.0	33	<.1	5.3	9.0	406	1.97	.7	1.3	2.1	2.6	121	<.1	.1	.1	49	2.09	.068	8	5	.63	118	.023	2	.88	.032	.18	.4	<.01	2.8	<.1	<.05	3	<.5
4274	.4	111.6	2.6	42	<.1	4.7	7.9	459	2.17	.6	1.1	2.2	2.8	91	.1	.1	<.1	45	2.41	.062	7	5	.49	111	.019	2	.83	.028	.22	.3	<.01	2.9	<.1	<.05	3	<.5
4275	.5	104.4	2.9	69	<.1	5.5	10.1	1033	2.29	.8	1.2	.9	2.6	119	.2	.2	.1	46	3.19	.061	8	5	.93	179	.037	3	.71	.030	.27	.2	<.01	2.7	<.1	<.05	3	.6
4276	.5	79.8	2.6	39	<.1	5.3	8.6	652	1.94	<.5	1.1	1.8	2.3	98	<.1	.2	.1	37	3.06	.063	8	5	.63	86	.004	2	.81	.028	.22	.2	<.01	2.9	<.1	<.05	3	<.5
4277	.4	89.6	1.7	42	<.1	8.1	10.9	474	2.26	2.1	1.5	1.0	2.9	150	<.1	.3	.1	62	2.03	.056	8	6	.96	182	.042	2	1.44	.103	.17	.2	<.01	4.9	<.1	<.05	6	<.5
STANDARD DS	21.1	107.5	70.6	420	.9	57.6	9.8	636	2.46	48.9	5.1	72.4	4.6	73	6.4	5.9	4.5	84	.95	.079	13	260	1.06	384	.122	40	1.01	.070	.46	3.9	.20	2.5	4.3	.21	5	3.4

Standard is STANDARD DS7.
GROUP 1DX - 15.0 GM SAMPLE LEACHED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 300 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: DRILL CORE R150 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

12-20-06 A10:59 OUT

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

Data ___ FA ___ DATE RECEIVED: NOV 1 2006 DATE REPORT MAILED:..................

ACME ANALYTICAL

Happy Creek Minerals Ltd. PROJECT RATERIA FILE # A608500

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
G-1	.1	2.5	2.8	44	<.1	2.9	3.7	496	1.70	<.5	3.0	1.4	4.5	59	<.1	<.1	.1	35	.54	.070	8	6	.56	195	.107	1	1.09	.074	.47	.1	<.01	2.5	.3	<.05	5	<.5
4278	.3	90.3	1.1	33	<.1	6.4	8.6	379	2.08	.9	1.4	1.3	3.0	96	<.1	.1	.1	63	1.46	.052	7	8	.76	125	.065	1	1.04	.056	.21	.1	<.01	3.5	<.1	<.05	5	<.5
RE 4278	.2	91.6	1.2	32	<.1	6.7	8.5	376	2.07	.9	1.3	1.0	3.0	97	<.1	.1	.1	63	1.45	.052	7	8	.77	128	.068	1	1.05	.062	.19	.2	<.01	3.5	<.1	<.05	5	<.5
RRE 4278	.4	94.2	1.2	33	<.1	6.8	8.8	375	2.21	.9	1.3	1.4	2.9	87	<.1	.1	.1	67	1.35	.049	7	9	.75	122	.067	1	1.06	.070	.21	.2	<.01	3.4	<.1	<.05	5	<.5
4279	.4	539.2	1.8	35	.3	6.0	8.3	527	2.04	1.0	1.0	1.7	2.6	101	<.1	.1	.3	50	2.18	.055	7	6	.85	76	.012	2	.88	.038	.19	.2	<.01	3.4	<.1	<.05	3	<.5
4280	1.4	95.1	2.7	38	<.1	5.2	8.2	599	1.82	.7	.6	1.1	2.2	125	.1	.2	.1	37	3.16	.055	7	5	.64	81	.002	2	.86	.020	.23	.3	<.01	3.1	<.1	<.05	2	<.5
4281	.3	46.1	2.1	41	<.1	6.7	9.2	478	2.14	.8	.6	<.5	1.8	103	<.1	.1	<.1	52	2.23	.055	7	6	.57	86	.006	1	1.07	.055	.19	.2	<.01	4.0	<.1	<.05	4	<.5
4542	.3	9.2	3.3	30	<.1	1.6	4.2	396	1.35	1.4	.4	<.5	1.4	74	<.1	.3	<.1	33	1.86	.052	5	4	.39	105	.001	2	.49	.030	.13	.1	<.01	2.7	<.1	<.05	2	<.5
4543	.2	4.2	2.0	32	<.1	1.5	3.8	317	1.35	2.0	.6	.5	1.5	68	<.1	.3	<.1	30	1.40	.050	6	4	.28	72	.004	3	.91	.059	.14	.1	<.01	2.4	<.1	<.05	3	<.5
4544	.5	14.4	1.9	23	<.1	1.3	3.9	339	1.27	1.4	.5	.8	1.5	80	<.1	.2	<.1	32	1.71	.036	4	4	.31	38	.001	2	.48	.031	.12	.1	<.01	2.1	<.1	<.05	1	<.5
4545	.3	27.8	2.1	25	<.1	1.6	3.3	317	1.37	1.0	.4	.7	1.5	78	<.1	.1	<.1	32	1.55	.032	4	3	.31	44	.001	3	.53	.027	.12	.1	<.01	1.8	<.1	<.05	2	<.5
4546	.5	37.4	3.5	19	<.1	1.0	2.2	331	.95	.8	.7	.7	2.2	74	<.1	.1	<.1	20	1.90	.024	6	4	.21	205	.001	2	.51	.053	.15	.1	<.01	1.5	<.1	<.05	2	<.5
4547	.3	23.9	2.9	11	<.1	.5	1.0	254	.52	.5	.8	.5	2.3	54	<.1	.1	<.1	9	1.55	.005	4	2	.15	75	<.001	2	.33	.020	.12	.1	<.01	.8	<.1	<.05	1	<.5
4548	.5	139.4	2.7	21	.1	1.2	2.5	300	.95	.7	.5	1.5	1.9	60	<.1	.1	.1	16	1.53	.019	6	5	.23	95	.001	3	.62	.058	.17	.1	<.01	1.2	<.1	<.05	2	<.5
4549	.7	4.0	2.9	31	<.1	1.5	3.5	330	1.07	1.2	.5	.6	1.5	74	<.1	.2	<.1	21	1.70	.031	5	4	.30	135	.001	2	.43	.037	.11	.1	<.01	1.6	<.1	<.05	2	.5
4550	.8	8.6	1.7	28	<.1	1.3	3.2	347	1.25	1.7	.5	.6	1.5	70	<.1	.2	<.1	31	1.40	.037	7	4	.31	286	.003	1	.46	.040	.10	.1	<.01	2.3	<.1	<.05	2	<.5
4564	.8	2.8	3.9	28	<.1	.9	3.0	466	1.04	1.2	.5	<.5	1.4	82	<.1	.5	<.1	21	2.16	.032	5	3	.31	68	.001	2	.48	.035	.12	.1	<.01	1.8	<.1	<.05	2	<.5
4565	.7	13.4	1.9	17	<.1	.7	2.3	409	.91	.9	.4	.6	1.5	72	<.1	.5	<.1	15	2.68	.032	5	3	.16	48	.001	1	.45	.027	.11	.1	<.01	1.4	<.1	<.05	1	<.5
4566	.5	18.8	2.2	21	<.1	1.2	2.9	475	.92	2.0	.8	<.5	1.7	79	<.1	1.4	.1	19	2.47	.037	7	5	.29	48	.002	3	.64	.048	.10	.1	<.01	1.7	<.1	<.05	2	<.5
4567 (pulp)	314.8	1602.2	119.3	134	29.3	69.7	35.0	1000	6.78	246.4	1.9	5491.1	3.1	103	1.2	62.6	167.7	48	9.45	.077	11	66	.37	70	.134	25	1.67	.028	.16	32.1	10.93	4.4	.2	2.25	7	1.3
4568 (rock)	.7	32.1	2.5	40	<.1	4.8	9.4	496	2.49	.7	.8	1.3	3.8	54	.1	.3	.1	63	.77	.045	7	8	.85	66	.150	1	1.54	.134	.10	.3	<.01	3.8	<.1	<.05	5	<.5
4569	.3	21.3	1.7	38	<.1	1.8	4.3	435	1.53	.5	.6	.5	1.2	87	<.1	.2	<.1	39	1.09	.045	5	8	.45	295	.046	1	.93	.069	.11	.1	<.01	2.5	<.1	<.05	4	<.5
4570	.8	13.3	1.7	37	<.1	2.3	4.5	453	1.47	.5	.5	.5	1.2	96	<.1	.2	<.1	31	1.39	.046	6	7	.38	233	.006	1	.94	.076	.17	.1	.01	2.0	<.1	<.05	4	<.5
4571	.3	29.7	2.0	48	<.1	1.9	4.5	528	1.26	<.5	.6	1.9	1.1	89	<.1	.4	.1	27	1.43	.046	5	7	.44	424	.006	2	.90	.041	.13	.1	<.01	1.6	<.1	<.05	4	<.5
4572	.5	24.3	1.5	43	<.1	1.8	4.5	535	1.46	.5	.5	1.1	1.2	79	<.1	.2	<.1	32	1.40	.047	6	7	.42	288	.005	2	.81	.059	.14	<.1	<.01	1.9	<.1	<.05	4	<.5
4573	.2	31.5	2.0	43	<.1	1.7	4.6	510	1.35	.6	.7	1.9	1.1	128	<.1	.2	<.1	24	1.75	.049	6	5	.37	109	.001	1	.81	.032	.15	<.1	.01	1.5	<.1	<.05	3	<.5
4574	.7	36.4	2.7	37	<.1	1.2	3.7	662	1.03	<.5	.6	.8	1.1	133	.1	.1	<.1	12	2.77	.048	6	3	.16	81	.001	2	.55	.017	.20	.1	<.01	.9	<.1	<.05	1	<.5
4575	.4	34.4	3.1	10	<.1	.5	.9	283	.39	<.5	1.1	1.0	2.9	115	.1	.1	<.1	3	1.68	.013	8	4	.11	198	<.001	3	.55	.024	.19	.1	<.01	.6	<.1	<.05	1	<.5
4576	.6	35.0	3.3	21	<.1	.7	.9	205	.53	<.5	1.1	1.5	3.3	82	<.1	.5	.1	7	1.32	.015	7	5	.10	92	.001	2	.42	.034	.15	<.1	<.01	.7	<.1	<.05	1	<.5
4577	.8	75.6	2.2	35	<.1	1.7	3.7	324	1.25	1.4	1.2	1.5	2.3	148	<.1	.2	.1	30	1.08	.037	6	5	.28	192	.014	1	.93	.070	.10	<.1	<.01	2.4	<.1	<.05	4	<.5
4578	3.1	241.5	2.4	28	.2	.9	3.1	490	1.08	.5	.6	1.0	1.8	167	<.1	.2	.1	21	1.71	.038	8	4	.33	353	.002	1	.76	.043	.16	.1	<.01	2.0	<.1	<.05	3	<.5
4579	.9	48.7	2.9	32	<.1	1.6	3.3	337	1.19	.6	.8	<.5	2.0	157	<.1	.2	.1	26	1.26	.037	6	5	.26	135	.009	1	.83	.060	.13	<.1	<.01	2.0	<.1	<.05	4	<.5
4580	1.2	52.5	2.2	19	<.1	1.1	2.2	389	1.06	.5	.5	<.5	1.5	136	<.1	.3	<.1	22	1.72	.038	6	4	.15	93	.001	1	.60	.043	.14	<.1	<.01	1.7	<.1	<.05	2	<.5
4581	2.3	42.2	2.2	30	<.1	1.8	3.9	483	1.27	.8	.6	<.5	1.6	108	<.1	.3	<.1	26	1.51	.047	7	5	.29	162	.001	1	.67	.053	.12	<.1	<.01	2.1	<.1	<.05	3	<.5
4582	2.2	39.8	3.0	32	<.1	1.1	3.5	534	1.14	<.5	.5	<.5	1.2	224	<.1	.3	<.1	19	2.21	.039	7	4	.33	216	.003	1	1.17	.047	.17	<.1	<.01	2.5	<.1	<.05	4	<.5
STANDARD DS7	20.4	103.6	65.0	392	.8	54.4	9.2	622	2.36	46.5	4.8	62.4	5.0	81	6.1	5.9	4.3	82	.96	.075	15	252	1.03	376	.121	36	1.11	.110	.47	3.7	.19	3.1	4.0	.17	5	3.3

Sample type: DRILL CORE R150. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

ACME ANALYTICAL

Happy Creek Minerals Ltd. PROJECT RATERIA FILE # A608500

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
G-1	.6	2.0	2.7	41	<.1	3.8	4.3	512	1.81	<.5	2.7	<.5	4.2	54	<.1	.1	<.1	37	.48	.078	7	8	.60	199	.119	1	.87	.060	.48	.1	<.01	1.9	.3	<.05	5	<.5
4583	2.1	196.8	2.0	34	.1	1.5	4.7	525	1.22	<.5	.6	2.2	1.5	132	<.1	.2	.2	22	1.87	.049	8	4	.38	112	.002	2	.70	.033	.12	<.1	<.01	1.8	<.1	<.05	3	<.5
STANDARD DS7	20.6	106.8	70.2	409	.9	57.2	9.9	632	2.43	48.4	5.0	66.6	4.4	72	6.5	6.0	4.6	82	.93	.079	14	270	1.05	380	.125	39	1.00	.077	.46	3.9	.20	2.5	4.1	.20	4	3.5

Sample type: DRILL CORE R150.

Data ___ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9001 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Happy Creek Minerals Ltd. PROJECT RATERIA File # A608164 Page 1

2304 - 1066 W. Hastings S, Vancouver BC V6E 3A2 Submitted by: David Blann

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample kg
G-1	.3	3.8	3.2	45	<.1	10.8	5.1	535	1.95	<.5	3.2	1.2	4.3	54	<.1	<.1	.1	40	.54	.076	8	15	.70	198	.115	2	.97	.058	.44	.1	<.01	1.9	.3	<.05	5	<.5	-
4131	.3	187.9	2.6	33	.1	1.7	4.6	636	1.31	<.5	.4	.8	1.0	81	<.1	.1	<.1	22	2.20	.054	6	6	.27	328	.004	1	.55	.029	.18	<.1	<.01	1.1	<.1	<.05	2	<.5	3.7
4132	.3	76.0	2.2	32	<.1	2.4	4.7	480	1.48	<.5	.4	.5	1.0	72	<.1	.1	<.1	33	1.38	.051	5	6	.41	237	.012	2	.61	.046	.12	<.1	<.01	1.4	<.1	<.05	3	<.5	3.9
4133	.7	568.1	2.0	26	.3	1.9	4.9	536	1.44	<.5	.4	.6	1.0	70	<.1	.1	<.1	30	1.40	.049	6	6	.39	161	.010	1	.65	.036	.13	.1	.01	1.1	<.1	<.05	3	<.5	4.1
4134	.4	118.5	1.9	26	<.1	2.0	4.3	470	1.37	.6	.5	.5	1.1	75	<.1	.2	<.1	33	1.26	.049	5	7	.37	315	.033	1	.60	.041	.13	<.1	.01	1.3	<.1	<.05	3	<.5	4.2
4135	.5	122.3	5.7	41	<.1	.7	1.8	1917	.71	<.5	.7	<.5	2.1	107	.1	.1	<.1	8	4.36	.046	8	5	.16	174	.001	2	.33	.011	.22	.2	<.01	.5	<.1	<.05	1	<.5	2.1
4136	.9	228.8	11.1	63	<.1	.8	2.1	834	.75	<.5	.7	<.5	1.6	75	.1	.1	<.1	8	2.46	.045	7	4	.14	296	<.001	1	.31	.011	.20	.1	<.01	.6	<.1	<.05	1	<.5	3.7
4137	2.7	684.7	40.6	21	.3	.9	2.1	1043	.80	<.5	.7	<.5	1.7	76	.1	.1	.1	7	2.88	.047	8	5	.13	273	<.001	2	.32	.010	.22	<.1	<.01	.6	<.1	<.05	1	<.5	3.6
4138	1.5	362.4	9.6	29	.2	1.7	3.8	722	1.01	.8	.9	1.5	1.6	76	.1	.2	.1	13	2.14	.048	8	3	.22	200	.001	1	.44	.020	.18	.1	<.01	.8	.1	<.05	2	<.5	3.5
4139	.3	115.9	3.0	21	<.1	1.1	2.6	441	.88	<.5	.6	2.3	1.8	61	<.1	.1	.1	8	1.82	.030	7	4	.14	121	<.001	2	.45	.025	.18	<.1	<.01	.7	<.1	<.05	2	<.5	3.8
4140	2.0	138.5	2.2	13	.1	.7	1.2	410	.48	<.5	.6	1.7	2.0	53	<.1	.1	.1	5	1.82	.019	7	5	.08	166	.001	1	.28	.021	.15	<.1	<.01	.4	<.1	<.05	1	<.5	5.1
4141	34.7	218.8	2.9	5	.2	.5	.4	376	.27	<.5	.7	1.3	2.2	51	.1	.1	.1	1	1.65	.010	6	6	.03	402	<.001	1	.25	.022	.16	<.1	<.01	.2	<.1	<.05	1	<.5	3.3
4142	.3	102.1	3.6	14	<.1	.5	1.7	673	.64	<.5	.6	1.0	1.7	73	.1	.1	<.1	5	2.61	.035	8	4	.11	196	<.001	1	.37	.011	.22	<.1	<.01	.6	<.1	<.05	1	<.5	3.5
4143	.4	79.6	2.6	12	<.1	.6	1.1	520	.53	<.5	.7	.7	2.1	58	<.1	.1	<.1	4	1.98	.019	7	5	.08	101	<.001	2	.34	.016	.19	<.1	<.01	.4	<.1	<.05	1	<.5	3.7
4144	.3	49.4	1.4	10	<.1	.8	1.3	497	.54	<.5	1.0	<.5	2.6	50	<.1	.1	<.1	4	1.72	.015	7	6	.09	73	<.001	1	.33	.024	.16	<.1	<.01	.4	<.1	<.05	1	<.5	4.5
4145	.2	81.5	1.7	10	<.1	.9	.9	626	.49	<.5	.8	.7	2.4	53	<.1	.1	<.1	2	1.82	.016	7	6	.09	172	<.001	2	.36	.024	.20	<.1	<.01	.3	<.1	<.05	1	<.5	6.3
RE 4145	.2	79.8	1.8	10	<.1	1.0	.9	601	.47	<.5	.7	<.5	2.3	50	<.1	.1	<.1	3	1.78	.016	7	6	.09	168	.001	1	.35	.024	.20	.1	<.01	.3	<.1	<.05	1	<.5	-
RRE 4145	.3	68.5	1.6	9	<.1	.7	1.0	604	.51	<.5	.7	.7	2.2	49	<.1	.1	<.1	2	1.75	.016	7	6	.09	137	<.001	1	.34	.026	.19	<.1	<.01	.3	<.1	<.05	1	<.5	-
4146	.6	110.6	1.9	9	.1	.5	.7	716	.43	<.5	.7	.5	1.9	86	.1	.1	<.1	1	2.36	.014	9	5	.09	1815	<.001	1	.31	.027	.17	.1	<.01	.2	<.1	<.05	1	<.5	2.4
4147	.2	38.4	2.9	16	<.1	1.0	1.4	495	.58	<.5	1.0	<.5	2.2	64	<.1	.2	<.1	6	1.69	.019	7	5	.13	261	.001	2	.39	.030	.16	<.1	<.01	.5	<.1	<.05	2	<.5	3.7
4148	.4	40.9	2.9	15	<.1	.9	1.5	456	.60	<.5	.9	1.7	2.2	62	<.1	.2	<.1	6	1.55	.018	7	5	.13	245	.001	2	.41	.035	.17	<.1	<.01	.5	<.1	<.05	2	<.5	3.9
4149	.2	34.8	2.9	14	<.1	1.0	1.5	374	.59	<.5	1.1	<.5	2.9	61	<.1	.3	<.1	5	1.31	.017	10	6	.14	188	.002	2	.40	.036	.15	<.1	<.01	.5	<.1	<.05	2	<.5	3.6
4150	.4	48.4	2.3	6	<.1	.6	.7	508	.43	<.5	.8	<.5	2.2	55	<.1	.2	<.1	3	1.70	.013	7	5	.06	113	<.001	1	.29	.028	.17	<.1	<.01	.4	<.1	<.05	1	<.5	3.9
4151	.4	48.0	1.9	4	<.1	.5	.4	431	.29	<.5	1.2	<.5	2.5	61	<.1	.1	<.1	<1	1.76	.012	7	5	.04	96	<.001	2	.26	.024	.17	<.1	<.01	.3	<.1	<.05	1	<.5	4.6
4152 (pulp)	342.5	1721.6	131.0	135	32.5	74.6	36.9	1110	7.50	261.2	2.3	6054.6	3.3	98	1.0	67.6	180.3	52	9.75	.082	13	70	.38	56	.146	29	1.79	.035	.16	34.4	12.07	3.5	.2	2.65	7	1.7	-
4153	.7	21.5	1.2	29	<.1	3.7	8.4	455	2.43	<.5	.9	<.5	3.3	53	<.1	.1	<.1	68	.90	.043	6	10	.76	81	.149	1	1.50	.177	.11	.4	<.01	2.8	<.1	<.05	5	<.5	1.0
4154	.2	147.1	2.5	18	.1	.5	1.4	693	.57	<.5	1.0	<.5	2.0	77	.1	.1	<.1	4	2.18	.027	8	4	.10	257	<.001	1	.27	.016	.17	<.1	<.01	.4	<.1	<.05	1	<.5	4.7
4155	.4	33.4	3.0	26	<.1	1.1	2.9	684	1.08	<.5	.9	1.7	1.2	78	<.1	.1	<.1	15	2.04	.044	8	4	.17	425	.001	2	.41	.031	.20	<.1	<.01	1.1	.1	<.05	1	<.5	3.9
4156	.2	58.3	4.1	33	<.1	.9	2.1	504	.71	.5	1.1	1.7	1.8	71	.1	.1	<.1	8	1.76	.029	7	4	.14	322	.001	2	.31	.025	.17	<.1	<.01	.6	<.1	<.05	1	<.5	4.5
4157	.8	155.9	4.4	23	.1	.5	2.4	685	.87	.5	1.2	1.9	1.5	92	.1	.1	<.1	12	2.51	.046	7	5	.13	351	.001	2	.37	.018	.22	<.1	<.01	1.0	<.1	<.05	1	<.5	4.3
4158	.9	6.9	4.5	11	<.1	.6	1.5	831	.65	.7	.8	.9	1.3	117	.1	.1	<.1	7	3.69	.047	7	4	.10	266	.001	3	.35	.007	.24	.1	<.01	1.0	<.1	<.05	1	<.5	4.1
4159	3.4	22.7	3.0	27	<.1	1.2	3.3	641	1.15	.5	1.1	1.1	1.6	104	<.1	.1	<.1	18	2.22	.049	7	4	.24	381	.001	2	.51	.024	.20	.1	<.01	1.1	<.1	<.05	2	<.5	4.3
4160	1.4	11.9	4.2	17	<.1	.8	2.2	822	.83	.5	.9	<.5	1.3	113	.1	.1	<.1	11	3.15	.045	7	4	.11	198	<.001	2	.33	.013	.20	<.1	<.01	1.1	<.1	<.05	1	<.5	4.5
4161	1.0	21.9	4.1	27	<.1	1.0	3.0	573	1.15	<.5	.9	.8	1.7	87	<.1	.1	<.1	17	2.15	.045	8	6	.18	341	.001	1	.45	.027	.21	<.1	<.01	1.0	<.1	<.05	2	<.5	4.9
4162	.5	31.2	2.7	13	<.1	1.0	1.8	318	.74	.5	.9	<.5	2.0	67	<.1	.1	<.1	9	1.39	.022	6	6	.11	326	.001	1	.37	.041	.18	.1	<.01	.5	<.1	<.05	2	<.5	6.1
STANDARD DS7	21.6	112.0	70.8	401	.9	58.6	10.2	657	2.51	48.2	5.2	69.1	4.9	76	6.7	6.1	4.7	88	1.01	.081	15	295	1.08	396	.127	40	1.10	.100	.45	3.9	.20	2.6	4.3	.22	6	3.7	-

GROUP 1DX - 15 GM SAMPLE LEACHED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 300 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: DRILL CORE R150 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

12-20-06 A10:55 OUT

Data ___ FA _____ DATE RECEIVED: OCT 24 2006 DATE REPORT MAILED:................

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL

Happy Creek Minerals Ltd. PROJECT RATERIA FILE # A608164

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample kg
G-1	.2	2.3	2.8	46	<.1	4.6	4.2	511	1.83	<.5	3.0	1.3	4.3	52	<.1	<.1	.1	36	.52	.077	6	10	.58	203	.119	1	.95	.072	.47	.3	<.01	1.8	.3	<.05	4	<.5	-
4163	.4	103.9	2.2	8	<.1	5.9	1.3	709	.44	1.0	.8	.6	2.1	87	.1	.1	<.1	4	2.63	.019	6	7	.13	93	<.001	1	.26	.015	.19	<.1	<.01	.4	<.1	<.05	1	<.5	4.80
4164	.4	6.2	5.7	22	<.1	29.8	3.1	884	1.06	.5	.8	1.0	1.7	171	.1	.2	<.1	17	3.38	.047	8	194	.35	1263	.004	2	.42	.021	.23	.1	<.01	1.5	<.1	<.05	1	<.5	4.40
4507	1.0	35.9	2.4	47	<.1	2.5	3.4	914	.90	<.5	1.0	1.4	1.7	61	.1	.1	.1	12	2.31	.040	7	3	.29	87	.001	1	.56	.025	.16	.1	<.01	.9	.2	<.05	2	<.5	3.00
4508	.2	3.8	2.0	91	<.1	4.2	4.5	703	1.39	<.5	.7	1.0	1.5	47	.2	.1	<.1	28	1.45	.048	7	20	.43	126	.006	1	.65	.051	.14	.1	<.01	1.6	<.1	<.05	3	<.5	3.10
4509	.4	8.5	2.5	38	<.1	2.3	3.2	625	1.01	.5	.8	<.5	2.2	39	<.1	.1	<.1	19	1.27	.032	5	6	.30	56	.008	1	.57	.051	.12	<.1	<.01	1.1	<.1	<.05	3	<.5	2.90
4510	.2	24.7	3.0	45	<.1	2.5	4.0	675	1.16	<.5	1.0	.5	2.2	63	.1	.1	<.1	20	1.81	.040	7	8	.28	147	.001	1	.62	.039	.18	.1	<.01	1.4	<.1	<.05	2	<.5	3.20
4511	1.0	80.3	2.5	36	<.1	1.3	2.7	581	.86	<.5	.7	<.5	1.9	63	<.1	.1	<.1	12	2.14	.024	6	3	.24	42	.001	<1	.57	.033	.15	.1	<.01	.9	<.1	<.05	2	<.5	2.60
4512	.3	34.1	2.8	44	<.1	1.9	4.2	657	1.31	.5	.6	<.5	1.5	133	<.1	.1	<.1	29	1.98	.044	5	6	.37	93	.022	1	1.05	.042	.13	.1	<.01	1.5	<.1	<.05	4	<.5	5.80
4513	.2	9.8	2.6	45	<.1	1.7	4.4	651	1.23	<.5	.6	<.5	1.2	92	<.1	.1	<.1	28	1.69	.044	4	5	.39	82	.050	1	1.07	.051	.13	.1	<.01	1.7	<.1	<.05	4	<.5	4.50
4514	.6	6.3	1.7	57	<.1	2.0	4.6	736	1.47	3.3	.5	1.2	1.0	78	<.1	.1	<.1	37	1.29	.048	4	6	.43	49	.059	1	.88	.046	.12	.1	<.01	1.9	<.1	<.05	4	<.5	4.30
4515	1.2	62.9	1.9	81	<.1	1.9	4.5	804	1.40	1.4	.7	<.5	1.1	63	.1	.1	<.1	30	1.52	.047	4	5	.38	62	.038	1	.96	.050	.15	.1	<.01	1.7	<.1	<.05	4	<.5	3.80
4516	2.3	139.7	1.5	61	<.1	1.7	5.4	845	1.35	.5	.6	<.5	1.1	68	<.1	.2	.1	27	1.47	.047	4	6	.39	56	.034	1	.86	.042	.15	.1	.01	1.5	<.1	<.05	3	<.5	3.60
4517	.3	23.8	1.2	52	<.1	1.6	5.1	1038	1.24	<.5	.6	<.5	.9	92	<.1	.2	<.1	22	1.85	.047	3	5	.39	637	.042	1	.82	.033	.16	.1	<.01	1.1	<.1	<.05	3	<.5	2.50
4518	.2	209.9	1.7	690	<.1	2.5	5.1	988	1.53	<.5	.5	<.5	.9	186	2.2	.1	.1	36	1.37	.048	4	5	.51	39	.046	1	.94	.029	.11	.2	.01	1.7	<.1	.06	4	<.5	2.90
4519	.9	100.0	3.0	183	<.1	1.9	4.4	877	1.34	.5	.9	<.5	1.7	104	.6	.2	.1	27	1.42	.045	4	5	.37	41	.038	<1	.78	.031	.15	.2	.02	1.2	<.1	<.05	3	<.5	3.50
4520	.2	27.3	1.4	54	<.1	2.3	5.2	927	1.43	<.5	.8	<.5	2.1	112	<.1	.2	<.1	28	1.32	.046	4	5	.45	85	.044	<1	.79	.033	.12	.2	<.01	1.3	<.1	<.05	3	<.5	3.80
4521	.4	98.3	1.5	44	<.1	1.7	4.3	927	1.20	<.5	.7	<.5	1.4	81	<.1	.2	<.1	18	1.57	.046	5	4	.39	86	.016	<1	.67	.035	.14	.1	<.01	1.0	<.1	<.05	3	<.5	2.40
4522	4.5	220.1	2.0	29	.1	.8	2.6	1102	.63	<.5	1.0	<.5	2.1	97	<.1	.1	.1	4	2.52	.039	8	4	.18	223	.001	1	.43	.025	.18	.2	<.01	.5	<.1	<.05	1	<.5	2.10
4523	.6	241.9	3.3	25	<.1	.8	2.7	668	.84	<.5	.8	<.5	1.9	90	<.1	.1	<.1	10	1.97	.031	7	4	.10	576	.001	1	.39	.028	.20	.1	<.01	.7	<.1	<.05	1	<.5	2.90
4524	1.7	894.7	5.6	32	.2	1.1	3.2	895	1.04	<.5	.9	<.5	1.8	109	<.1	.1	.1	10	2.95	.034	7	4	.23	1455	.001	2	.33	.023	.22	.1	<.01	.6	<.1	.08	1	<.5	3.10
RE 4524	1.8	924.6	5.7	32	.2	.5	3.6	920	1.07	<.5	.9	<.5	1.8	110	<.1	.2	.1	9	2.99	.034	7	4	.23	1400	.001	2	.32	.024	.22	.1	.01	.7	<.1	.08	1	<.5	-
RRE 4524	1.7	979.8	5.3	28	.2	.7	3.3	926	1.03	<.5	.8	<.5	1.8	105	.1	.1	.1	8	3.05	.034	6	4	.21	1381	.001	1	.35	.025	.22	.1	.01	.6	<.1	.08	1	<.5	-
4525	3.1	1086.1	3.5	35	.2	1.3	4.5	719	1.38	<.5	.9	<.5	1.7	62	.1	.2	.1	18	1.55	.043	7	5	.23	361	.003	1	.42	.029	.20	.1	.01	.9	<.1	.07	2	<.5	1.30
4526	2.3	1869.9	4.5	38	.6	1.3	4.6	640	1.34	<.5	.8	<.5	1.7	55	.1	.1	.3	16	1.44	.046	7	4	.18	234	.001	<1	.35	.032	.19	.1	.01	.9	<.1	.07	1	<.5	1.50
4527	1.7	455.5	3.3	31	.1	1.1	3.2	711	1.12	<.5	.7	<.5	1.9	62	<.1	.1	.1	14	1.78	.040	8	4	.15	247	.001	1	.41	.029	.23	.1	<.01	1.0	<.1	<.05	1	<.5	3.50
4528	.6	66.3	3.7	12	<.1	.5	1.4	360	.46	<.5	.8	<.5	2.7	43	<.1	.1	<.1	4	1.17	.012	7	4	.07	134	.001	2	.25	.032	.15	.2	<.01	.5	<.1	<.05	1	<.5	3.70
4529	1.5	282.9	5.0	10	<.1	.3	.6	310	.38	<.5	1.2	<.5	3.3	44	<.1	.1	.1	2	1.27	.012	8	4	.06	57	<.001	1	.27	.037	.19	.1	<.01	.4	<.1	<.05	1	<.5	3.90
4530	1.1	164.5	1.8	7	<.1	.3	.4	321	.28	<.5	1.2	<.5	3.3	69	<.1	.1	<.1	<1	1.52	.012	10	4	.05	216	<.001	1	.26	.026	.19	.1	.01	.3	<.1	<.05	1	<.5	1.60
4531	.4	243.4	3.2	10	<.1	.9	1.0	173	.50	<.5	1.4	<.5	3.8	37	<.1	.2	.1	5	.79	.010	9	5	.06	53	.001	1	.27	.044	.15	.1	.01	.4	.1	<.05	1	<.5	3.90
4532	.2	157.8	2.6	19	<.1	1.3	1.9	248	.81	<.5	1.6	<.5	3.8	50	<.1	.2	.1	13	.63	.016	8	5	.13	57	.008	1	.35	.051	.10	<.1	<.01	1.0	<.1	<.05	2	<.5	2.10
4533	.3	102.6	2.3	11	<.1	.7	1.3	195	.50	.5	1.3	<.5	3.0	40	<.1	.1	<.1	6	.61	.011	7	6	.08	48	.003	1	.26	.045	.11	.1	<.01	.6	<.1	<.05	1	<.5	4.20
4534	.5	239.4	1.4	17	<.1	1.2	2.1	212	.70	.6	.7	1.8	2.6	37	<.1	.1	.1	12	.45	.014	6	5	.17	95	.020	<1	.29	.047	.11	<.1	<.01	.9	<.1	<.05	2	<.5	2.30
4535	.3	104.1	1.6	30	<.1	1.8	3.3	387	1.09	<.5	1.0	<.5	2.6	45	<.1	.1	.1	24	.59	.024	5	5	.29	440	.049	<1	.48	.057	.13	<.1	.01	1.1	<.1	<.05	3	<.5	2.90
4536	.2	116.9	1.6	31	<.1	1.7	3.5	389	1.12	<.5	1.0	2.2	2.7	47	<.1	.1	.1	26	.62	.026	6	6	.30	492	.053	1	.51	.061	.14	<.1	.01	1.1	<.1	<.05	3	<.5	3.20
STANDARD DS7	21.2	107.2	72.1	419	.9	56.4	9.8	634	2.46	47.8	5.1	67.4	4.8	73	6.3	6.2	4.5	87	.96	.077	13	262	1.07	382	.129	38	1.04	.105	.45	3.9	.20	2.6	4.2	.21	5	3.7	-

Sample type: DRILL CORE R150. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___

Happy Creek Minerals Ltd. PROJECT RATERIA FILE # A608164

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample kg
G-1	.2	3.9	2.9	45	<.1	8.4	4.6	519	1.79	<.5	3.1	<.5	4.8	61	<.1	<.1	.1	37	.56	.074	9	11	.63	199	.125	1	.91	.058	.46	.1	<.01	1.9	.3	<.05	5	<.5	-
4537	.2	124.5	1.7	31	<.1	1.7	3.7	382	1.29	.5	1.0	<.5	2.2	72	<.1	.1	<.1	34	.68	.038	6	7	.29	315	.058	1	.57	.059	.11	<.1	<.01	1.3	<.1	<.05	3	<.5	5.80
4538	.3	104.5	1.3	33	<.1	3.1	4.6	465	1.37	.5	.9	<.5	1.5	100	<.1	.1	<.1	37	.93	.040	6	10	.40	217	.040	2	.53	.048	.09	.1	<.01	1.7	<.1	<.05	2	<.5	4.10
4539 (pulp)	362.4	1752.3	117.9	145	34.0	77.1	38.8	984	7.03	266.3	2.2	6482.8	4.1	115	.8	73.8	186.3	48	9.50	.083	15	65	.40	53	.151	27	1.62	.032	.18	38.8	12.75	3.9	.2	2.71	6	1.6	-
4540	.7	24.1	1.2	31	<.1	3.5	8.2	429	2.34	.7	1.0	1.6	4.0	57	<.1	.2	.1	63	.78	.042	8	9	.72	91	.156	1	1.36	.144	.14	.2	.01	2.7	<.1	<.05	5	<.5	.40
4541	.3	438.3	1.9	32	.3	1.8	4.0	330	1.38	1.9	.8	5.2	2.0	115	<.1	.2	.4	36	.91	.046	7	5	.24	74	.010	2	.51	.051	.09	<.1	.01	2.4	<.1	<.05	3	<.5	2.20
STANDARD DS7	21.5	107.5	72.1	399	.9	59.3	10.0	651	2.49	47.2	5.3	69.8	5.5	81	6.6	6.0	4.7	84	.97	.077	16	258	1.06	388	.133	40	1.04	.090	.46	3.9	.21	2.6	4.3	.21	5	3.5	-

Sample type: DRILL CORE R150.

Data ___ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9001 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Happy Creek Minerals Ltd. PROJECT RATERIA File # A607847 Page 1
2304 - 1066 W. Hastings S, Vancouver BC V6E 3A2 Submitted by: N/ A

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample kg
G-1	.8	2.0	2.6	43	<.1	3.6	3.9	490	1.74	<.5	2.5	1.1	3.7	54	<.1	<.1	.1	34	.49	.071	8	8	.55	185	.111	2	.91	.066	.44	.2	<.01	1.8	.3	<.05	5	<.5	-
4037	.3	30.2	1.2	16	<.1	1.0	1.5	269	.67	.5	.4	.7	1.7	44	<.1	.1	<.1	10	1.64	.028	7	6	.10	204	.003	1	.36	.029	.15	<.1	<.01	.5	<.1	<.05	1	<.5	2.1
4038	.6	48.8	1.4	33	<.1	1.5	3.9	372	1.42	.5	.5	<.5	1.3	105	<.1	.1	.1	33	1.35	.047	5	6	.35	482	.043	2	.93	.040	.13	.1	<.01	1.1	<.1	<.05	4	<.5	2.5
4039	.3	23.0	2.1	35	<.1	1.5	4.0	405	.95	.6	.4	<.5	.9	155	<.1	.1	<.1	22	1.60	.048	5	5	.37	59	.040	1	1.12	.033	.14	<.1	<.01	1.5	<.1	<.05	4	<.5	2.0
4040	.9	8.2	1.8	48	<.1	1.7	4.2	416	1.38	.5	.4	<.5	1.2	91	<.1	.1	<.1	32	1.58	.050	6	9	.34	200	.013	2	.61	.040	.15	.1	<.01	1.5	<.1	<.05	3	<.5	2.2
4041	.3	6.3	2.4	38	<.1	2.2	3.9	385	1.16	.7	.5	<.5	1.3	92	<.1	.1	<.1	22	1.81	.047	5	5	.29	206	.007	2	.79	.045	.19	<.1	<.01	1.2	<.1	<.05	3	<.5	3.0
4042	1.1	11.4	2.1	42	<.1	2.9	4.2	506	1.19	.5	.5	<.5	1.2	120	<.1	.2	<.1	21	1.75	.052	5	8	.33	74	.003	1	.78	.030	.18	.1	<.01	1.1	<.1	<.05	3	<.5	1.2
4043	.4	21.7	2.8	30	<.1	1.2	3.3	474	1.24	.5	.4	<.5	.9	178	.1	.2	<.1	20	2.33	.046	7	3	.19	97	.002	2	.72	.033	.20	.1	<.01	1.2	<.1	<.05	2	<.5	3.8
4044	.6	42.2	2.1	33	<.1	1.3	4.0	382	1.21	.8	.5	.8	.9	128	<.1	.1	<.1	18	1.75	.046	7	6	.23	149	.002	2	.60	.033	.16	.1	<.01	1.3	<.1	<.05	2	<.5	2.4
4045	.4	12.4	1.5	35	<.1	1.8	4.1	426	1.50	.5	.6	<.5	1.2	162	<.1	.1	<.1	36	1.31	.048	6	5	.39	245	.041	1	.78	.048	.13	<.1	<.01	1.3	<.1	<.05	4	<.5	5.0
4046	.5	9.2	1.7	32	<.1	1.4	3.9	382	1.35	.6	.7	<.5	1.7	166	<.1	.1	<.1	29	1.44	.046	6	6	.35	462	.012	1	.70	.039	.13	.1	<.01	1.4	<.1	<.05	3	<.5	2.0
4047	.4	40.3	.8	34	<.1	2.0	3.7	316	1.44	<.5	.5	<.5	1.1	34	<.1	.1	<.1	38	.45	.044	4	9	.34	124	.084	1	.58	.058	.14	<.1	<.01	.7	<.1	<.05	3	<.5	2.6
4048 (pulp)	679.5	7046.2	124.5	66	72.3	5.3	1.6	233	.85	57.1	.9	26.8	.7	138	.5	140.1	6.0	8	1.04	.037	4	222	.11	118	.005	<1	.30	.021	.16	.1	.40	.4	<.1	.82	1	1.2	-
4049 (rock)	1.5	22.8	1.1	30	<.1	2.1	4.9	374	1.84	.5	1.0	<.5	3.2	38	<.1	.1	<.1	46	.52	.041	7	8	.49	79	.132	<1	1.04	.103	.21	.2	<.01	1.8	.1	<.05	4	<.5	1.4
4051	.7	140.3	1.5	36	<.1	1.9	4.4	472	1.50	.5	.6	<.5	1.1	121	<.1	.2	<.1	31	1.07	.049	6	7	.41	257	.017	1	.80	.074	.14	.1	<.01	1.6	<.1	<.05	4	<.5	5.5
4052	.6	3.6	2.5	29	<.1	1.5	3.6	313	1.29	.5	.5	<.5	1.3	103	<.1	.1	<.1	27	1.34	.046	6	6	.25	246	.013	1	.54	.044	.12	.1	<.01	1.3	<.1	<.05	2	<.5	2.7
4053	.5	5.5	2.5	20	<.1	1.0	2.4	442	.95	<.5	.4	<.5	1.4	139	<.1	.1	<.1	16	2.36	.047	7	4	.11	80	.001	2	.53	.036	.21	<.1	<.01	1.0	<.1	<.05	2	<.5	2.2
4054	1.4	11.2	2.1	32	<.1	1.7	3.7	302	1.37	.9	.7	<.5	1.5	184	<.1	.1	<.1	26	1.36	.047	5	6	.21	785	.003	2	.69	.057	.13	.1	<.01	1.2	<.1	<.05	3	<.5	1.4
4055	.2	8.0	2.3	27	<.1	1.0	3.0	366	1.12	.8	.6	<.5	1.7	189	.1	.1	<.1	19	2.07	.047	7	2	.14	353	.001	1	.59	.038	.17	<.1	<.01	1.1	<.1	<.05	2	<.5	2.1
4056	.6	6.5	2.4	39	<.1	1.5	4.0	401	1.31	<.5	.5	<.5	1.1	217	.1	.1	<.1	22	1.87	.047	6	5	.24	154	.001	2	.76	.036	.16	<.1	<.01	1.2	<.1	<.05	2	<.5	2.9
RE 4056	.5	6.2	2.4	38	<.1	1.5	4.0	391	1.28	<.5	.5	<.5	1.1	213	<.1	.1	<.1	23	1.83	.045	6	5	.24	152	.001	1	.78	.035	.17	.1	<.01	1.2	<.1	<.05	3	<.5	-
RRE 4056	.5	8.1	2.5	37	<.1	1.5	4.1	408	1.35	<.5	.5	<.5	1.1	211	.1	.1	<.1	24	1.89	.046	6	3	.23	155	.001	2	.75	.036	.16	<.1	<.01	1.3	<.1	<.05	3	<.5	-
4057	.7	2.3	1.7	27	<.1	1.2	3.4	359	1.19	.5	.3	<.5	1.0	116	<.1	.1	<.1	23	1.90	.045	6	5	.20	110	.003	1	.57	.039	.16	.1	<.01	1.2	<.1	<.05	2	<.5	1.6
4058	.2	6.0	1.9	27	<.1	.9	3.5	504	1.11	<.5	.6	<.5	1.0	206	<.1	.1	<.1	16	2.53	.043	5	2	.16	83	<.001	1	.58	.031	.17	<.1	<.01	1.0	<.1	<.05	2	<.5	2.0
4059	.4	4.3	2.1	34	<.1	1.1	3.0	716	1.06	.8	.4	<.5	1.0	323	.1	.1	<.1	17	3.20	.040	7	2	.26	137	.002	1	.79	.031	.15	<.1	<.01	.9	<.1	<.05	2	<.5	2.7
4060	.3	7.7	3.7	28	<.1	1.3	3.3	237	.98	2.0	.3	<.5	1.0	159	<.1	.5	<.1	20	1.61	.050	7	5	.13	86	.001	2	.52	.037	.14	<.1	<.01	1.6	<.1	<.05	3	<.5	2.4
4061	.5	6.1	1.6	37	<.1	1.6	3.9	356	1.38	.9	.7	<.5	1.6	84	<.1	.1	<.1	37	1.09	.048	5	8	.36	172	.055	1	.69	.046	.11	.1	<.01	1.4	<.1	<.05	4	<.5	7.1
4062	.3	4.1	1.4	34	<.1	1.8	4.1	353	1.46	.5	.5	<.5	.9	63	<.1	.1	<.1	38	1.01	.051	5	9	.37	157	.063	1	.76	.057	.10	<.1	<.01	1.2	<.1	<.05	4	<.5	7.0
4063	.5	3.5	2.0	35	<.1	1.6	4.2	404	1.34	.9	.5	<.5	1.2	99	<.1	.1	<.1	30	1.48	.051	6	7	.32	152	.021	1	.68	.047	.12	.1	<.01	1.5	<.1	<.05	3	<.5	4.4
4064	.4	133.1	2.6	19	.2	.6	1.5	370	.49	<.5	.9	<.5	2.2	43	.1	.2	<.1	6	1.55	.019	6	6	.11	239	.001	2	.40	.026	.20	<.1	.01	.5	<.1	<.05	1	<.5	4.1
4065	.7	90.8	2.5	30	.2	1.1	2.7	385	.74	<.5	.7	<.5	2.1	42	<.1	.3	<.1	10	1.45	.028	8	8	.17	289	.003	3	.50	.024	.23	.1	<.01	.8	<.1	<.05	2	<.5	4.4
4066	.3	99.4	2.6	31	.1	1.2	2.7	394	.88	<.5	.6	<.5	1.8	36	<.1	.2	<.1	15	1.27	.026	7	6	.23	119	.008	1	.49	.035	.18	<.1	<.01	1.0	<.1	<.05	2	<.5	2.6
4067	.8	181.4	2.3	15	.2	.6	1.3	354	.50	<.5	.8	<.5	2.1	47	<.1	.3	<.1	6	1.29	.021	6	10	.09	319	.001	1	.41	.033	.22	.1	<.01	.5	<.1	<.05	1	<.5	4.7
4068	.1	204.8	2.0	19	.3	.8	1.9	461	.54	<.5	1.0	1.0	2.0	38	<.1	.2	<.1	9	1.47	.023	6	6	.14	216	.003	1	.33	.023	.15	<.1	<.01	.7	<.1	<.05	1	<.5	4.5
4069	.6	459.9	2.4	20	.7	.8	1.8	401	.57	.5	.9	.7	2.2	45	<.1	.2	<.1	9	1.46	.030	6	9	.14	270	.003	2	.46	.021	.23	.1	.01	.8	<.1	<.05	2	<.5	4.8
STANDARD DS7	20.7	107.7	67.5	408	.9	55.5	9.8	646	2.43	49.5	4.8	65.9	4.5	73	6.5	6.0	4.5	85	.97	.083	13	177	1.09	384	.121	40	1.02	.078	.45	3.9	.20	2.6	4.3	.20	5	3.6	-

GROUP 1DX - 15.0 GM SAMPLE LEACHED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 300 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: DRILL CORE R150 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

12-20-06 P01:51 OUT

Data ___ FA ___ DATE RECEIVED: OCT 16 2006 DATE REPORT MAILED:.................

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

Happy Creek Minerals Ltd. PROJECT RATERIA FILE # A607847

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample kg
G-1	.4	3.2	2.6	48	<.1	4.9	4.3	532	1.93	<.5	2.6	.8	4.2	50	<.1	<.1	.1	38	.49	.081	6	12	.62	200	.115	2	.95	.066	.51	1.3	<.01	1.9	.4	<.05	5	<.5	-
4070	.2	44.9	3.8	39	<.1	5.2	3.8	564	1.20	.6	.5	.7	1.3	75	.1	.4	<.1	21	1.82	.047	6	6	.31	717	.021	3	.60	.028	.19	.2	.01	1.3	<.1	<.05	3	<.5	4.5
4071	.5	34.3	2.3	41	<.1	2.0	4.1	443	1.30	<.5	.6	<.5	1.8	48	<.1	.2	<.1	29	1.09	.045	5	10	.37	244	.042	2	.64	.043	.13	1.6	.01	1.7	<.1	<.05	3	<.5	4.6
RE 4071	.5	32.8	2.2	41	<.1	2.1	4.1	441	1.30	.5	.6	<.5	1.8	48	<.1	.2	<.1	30	1.08	.045	5	10	.37	242	.041	2	.63	.042	.13	1.5	<.01	1.7	<.1	<.05	3	<.5	-
RRE 4071	.2	41.3	2.4	41	<.1	2.4	4.4	453	1.43	.5	.7	.8	1.6	49	<.1	.2	<.1	31	1.12	.046	5	8	.39	256	.043	2	.65	.042	.13	.1	.01	1.7	<.1	<.05	3	<.5	-
4072	.4	119.1	2.6	36	<.1	1.5	3.7	505	1.18	.7	.5	2.9	1.2	53	<.1	.3	<.1	22	1.51	.043	6	7	.31	218	.020	2	.58	.034	.17	1.2	.01	1.3	<.1	<.05	3	<.5	4.8
4073	.1	18.2	5.3	41	<.1	1.5	4.0	457	1.29	.6	.5	.5	1.6	52	<.1	.1	<.1	25	1.29	.046	6	7	.35	288	.022	2	.58	.035	.15	.1	.01	1.4	<.1	<.05	3	<.5	4.0
4074	.4	44.4	2.4	40	<.1	1.9	4.4	548	1.35	<.5	.5	<.5	1.6	50	<.1	.1	<.1	24	1.47	.049	7	8	.35	207	.014	2	.58	.041	.15	1.4	.01	1.2	<.1	<.05	3	<.5	4.7
4075	.3	3361.0	3.2	45	3.8	1.3	3.9	782	1.20	<.5	.5	1.4	1.4	51	.1	.2	.3	13	1.87	.046	7	6	.30	252	.002	1	.60	.018	.21	.1	.07	1.0	<.1	.08	2	<.5	4.2
4076 (pulp)	330.5	1743.9	126.5	145	31.3	78.5	37.1	976	6.86	263.0	2.1	5809.6	3.6	111	1.3	71.7	193.9	45	9.59	.083	12	58	.40	89	.130	30	1.61	.035	.18	35.5	11.70	3.6	.2	2.53	6	1.7	.2
4077 (rock)	1.2	12.3	1.2	31	<.1	2.2	5.1	397	1.90	<.5	.9	1.5	3.4	49	<.1	.1	.1	48	.59	.043	7	10	.51	111	.151	<1	1.22	.148	.33	1.6	.01	2.3	.1	<.05	4	<.5	1.2
4078	.5	397.5	2.1	37	.4	1.4	4.4	642	1.38	<.5	.5	<.5	1.5	52	.1	.2	<.1	22	1.43	.048	6	4	.35	391	.018	2	.66	.027	.18	.1	<.01	1.3	<.1	<.05	2	<.5	.8
4079	.6	2655.5	1.8	38	3.7	1.0	4.1	753	1.13	<.5	.5	.7	1.4	44	.2	.1	.2	12	1.63	.049	7	6	.26	212	.003	1	.58	.013	.22	1.5	.03	.9	<.1	.07	2	<.5	4.1
4080	.2	771.6	2.6	40	1.1	1.2	4.1	717	1.26	.5	.6	.6	1.3	70	.1	.3	.1	18	1.85	.050	7	5	.36	316	.008	1	.68	.028	.18	.1	.02	1.3	<.1	<.05	3	<.5	4.6
4081	.5	976.6	2.4	30	.8	.8	3.6	809	1.09	<.5	1.0	2.4	2.4	55	.1	.1	.1	16	2.06	.049	8	6	.25	198	.001	1	.55	.022	.21	1.2	<.01	1.1	<.1	<.05	2	<.5	3.5
4082	.1	193.3	2.4	35	.3	.8	3.5	708	1.05	<.5	.6	.9	1.6	66	.1	.1	<.1	15	1.97	.047	7	3	.27	228	.002	2	.55	.019	.20	.1	.01	1.0	<.1	<.05	2	<.5	3.6
4083	.4	396.1	2.3	30	.5	.6	2.8	556	.90	<.5	.5	1.2	1.6	60	<.1	.1	<.1	10	1.76	.043	7	6	.23	598	.001	2	.49	.020	.21	1.1	<.01	.9	<.1	<.05	2	<.5	3.5
4084	.1	108.1	3.3	46	.2	1.2	3.9	546	1.17	<.5	.6	<.5	1.4	60	.1	.2	<.1	20	1.78	.051	6	3	.35	160	.002	1	.62	.023	.16	.1	.01	1.4	<.1	<.05	2	<.5	1.7
4085	.6	283.1	3.0	39	.3	1.2	3.6	546	1.20	.5	.6	1.6	1.4	73	.1	.2	.1	19	1.71	.049	7	6	.31	358	.006	2	.57	.030	.19	1.1	.01	1.3	<.1	<.05	2	<.5	4.0
4086	.2	123.3	2.9	40	.1	1.2	3.9	637	1.23	<.5	.7	<.5	1.3	89	.1	.1	<.1	18	2.05	.047	7	5	.28	404	.002	2	.51	.026	.20	.1	.01	1.2	<.1	<.05	2	<.5	4.5
4087	.5	129.5	3.1	36	.2	1.1	3.4	475	1.13	<.5	.6	<.5	1.7	76	.1	.1	<.1	16	1.71	.048	8	7	.26	283	.001	2	.46	.031	.20	1.4	.01	1.2	<.1	<.05	2	<.5	4.5
4088	.1	18.3	3.1	32	<.1	.7	3.1	542	1.16	<.5	.6	<.5	1.2	102	.1	.2	<.1	13	2.09	.050	7	4	.29	321	.001	1	.39	.028	.16	.1	<.01	1.3	<.1	<.05	1	<.5	3.0
4089	.5	338.6	2.7	30	.6	.9	3.3	619	1.02	<.5	.5	<.5	1.2	84	.1	.2	<.1	13	2.08	.049	7	6	.25	387	.001	2	.42	.026	.19	1.1	.01	1.1	<.1	<.05	1	<.5	4.5
4090	.2	6.4	4.1	38	<.1	.8	3.6	460	1.28	.5	.8	.7	1.3	85	.1	.1	<.1	18	1.94	.046	8	4	.19	468	.002	2	.44	.030	.17	.1	.01	1.4	<.1	<.05	1	<.5	4.8
4091	.5	1218.5	2.7	39	1.4	1.1	4.2	405	1.35	<.5	.7	<.5	1.3	77	.1	.2	.1	20	1.63	.044	6	5	.24	274	.001	1	.54	.029	.14	1.1	.01	1.4	<.1	<.05	2	<.5	4.7
4092	.2	187.5	2.7	25	.3	.5	2.8	426	.91	.5	1.3	<.5	1.8	75	.1	.2	<.1	10	1.70	.044	7	3	.13	377	.001	1	.36	.019	.20	.1	<.01	1.0	<.1	<.05	1	<.5	3.9
4093	.4	15.8	2.6	16	<.1	<.1	1.6	834	.61	<.5	.7	<.5	1.2	102	.2	.1	<.1	4	3.50	.040	7	6	.13	329	<.001	2	.26	.008	.19	1.6	.01	.7	<.1	<.05	1	<.5	4.6
4094	.2	192.5	6.7	48	.2	1.1	3.3	680	1.15	<.5	.7	<.5	1.3	90	.1	.1	<.1	15	2.42	.049	7	5	.20	237	.002	2	.45	.026	.17	.1	.01	1.1	<.1	<.05	2	<.5	4.2
4095	.4	48.2	3.1	45	<.1	1.4	4.5	508	1.28	<.5	.7	<.5	1.1	83	.1	.3	<.1	18	1.94	.050	7	8	.33	288	.002	2	.64	.034	.18	.9	<.01	1.3	<.1	<.05	3	<.5	3.5
4096	.3	701.2	14.0	49	.9	.9	4.5	703	1.42	<.5	.6	.9	1.2	127	.2	.2	.2	16	2.80	.050	7	5	.35	590	.004	2	.68	.029	.20	.1	.01	1.2	<.1	<.05	3	<.5	4.0
4097	.5	178.9	3.2	43	.2	1.5	4.5	599	1.39	<.5	.9	.7	1.9	67	.1	.2	<.1	23	1.53	.046	5	8	.38	232	.015	2	.67	.032	.16	1.4	.01	1.5	<.1	<.05	3	<.5	5.0
4098	.2	89.2	6.4	41	.1	1.0	3.8	636	1.26	<.5	.7	<.5	1.7	105	.1	.2	<.1	20	2.40	.050	6	5	.29	546	.013	2	.56	.026	.19	.1	.03	1.4	<.1	<.05	2	<.5	4.1
4099	.5	57.1	3.1	47	<.1	1.7	4.5	515	1.45	<.5	.8	<.5	1.3	89	<.1	.2	<.1	32	1.43	.047	5	10	.42	145	.042	1	.71	.040	.14	1.4	.01	1.8	<.1	<.05	3	<.5	4.1
4100	.2	442.9	2.6	41	.6	1.6	4.4	515	1.51	.5	.6	.9	1.3	75	<.1	.3	<.1	31	1.29	.049	5	5	.40	146	.043	2	.71	.035	.14	.1	.01	1.6	<.1	<.05	3	<.5	4.7
4101 (pulp)	659.4	7520.7	122.1	64	71.1	5.5	1.6	244	.87	58.2	.9	26.8	.7	146	.4	137.2	6.1	8	1.08	.036	4	229	.12	127	.006	<1	.32	.023	.17	.1	.37	.6	<.1	.84	1	1.2	-
STANDARD DS7	20.3	107.0	67.8	395	.9	53.9	9.4	622	2.35	48.2	4.8	58.7	4.3	72	6.5	6.0	4.4	82	.93	.079	12	167	1.04	373	.119	37	.97	.079	.44	3.8	.19	2.4	4.2	.19	5	3.7	-

Sample type: DRILL CORE R150. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data___ FA ____

ACME ANALYTICAL

Happy Creek Minerals Ltd. PROJECT RATERIA FILE # A607847

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample kg
G-1	.5	3.0	2.7	47	<.1	3.6	4.1	516	1.82	<.5	3.0	1.3	4.4	53	<.1	.1	.1	38	.46	.074	7	13	.57	199	.119	2	.90	.063	.47	1.3	<.01	1.9	.4	<.05	5	<.5	-
4102 (rock)	.5	29.3	1.5	29	<.1	1.8	4.6	365	1.77	<.5	1.0	.7	3.3	35	<.1	<.1	<.1	41	.43	.035	6	7	.45	84	.136	1	.96	.104	.25	.1	<.01	2.2	.1	<.05	3	<.5	1.6
4103	.5	571.8	5.1	62	.9	1.2	3.7	702	1.10	<.5	.6	1.0	1.3	126	.1	.3	.1	17	2.15	.042	7	7	.34	267	.007	2	.63	.020	.16	1.2	.01	1.3	<.1	<.05	2	<.5	4.5
4104	.6	685.1	2.9	43	1.1	1.8	4.1	597	1.24	<.5	.5	1.7	1.4	97	.1	.2	.1	21	1.75	.046	6	9	.35	413	.010	2	.64	.027	.17	1.5	.01	1.4	<.1	<.05	2	<.5	4.6
4105	.2	318.9	3.1	39	.7	1.5	3.4	505	1.18	<.5	.6	.8	1.2	83	<.1	.2	<.1	18	1.59	.049	6	6	.30	242	.015	3	.58	.024	.18	.1	.02	1.3	<.1	<.05	2	<.5	4.5
4106	.2	104.2	2.0	38	.2	1.6	4.0	407	1.40	.6	.5	<.5	1.0	54	<.1	.2	<.1	34	.99	.046	4	8	.35	203	.059	2	.65	.040	.12	.1	<.01	1.2	<.1	<.05	3	<.5	4.5
4107	.5	103.4	2.1	36	.1	1.7	3.7	373	1.25	<.5	.4	.5	1.0	48	<.1	.1	<.1	30	.87	.041	4	7	.35	169	.052	1	.62	.044	.10	1.5	<.01	1.2	<.1	<.05	3	<.5	5.0
4108	.2	18.5	2.0	38	<.1	1.7	4.2	361	1.44	.6	.5	<.5	1.1	64	<.1	.1	<.1	36	1.03	.043	4	6	.38	327	.058	1	.84	.045	.07	.1	<.01	1.2	<.1	<.05	4	<.5	5.0
4109	.5	157.6	1.8	37	.3	1.4	3.7	391	1.32	.5	.5	.9	1.2	62	<.1	.1	<.1	30	1.03	.044	4	9	.35	247	.041	2	.63	.038	.13	1.5	<.01	1.2	<.1	<.05	3	<.5	4.0
STANDARD DS7	20.3	105.9	69.0	415	.8	54.4	9.6	619	2.35	47.3	4.9	60.3	4.4	67	6.4	5.9	4.6	81	.91	.078	12	165	1.04	362	.118	37	.95	.072	.43	3.7	.19	2.4	4.1	.19	5	3.5	-

Sample type: DRILL CORE R150.

Data ____ FA ____

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9001 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Happy Creek Minerals Ltd. PROJECT RATERIA File # A607709

Box 1852 38151 Clarke Dri, Squamish BC V0N 3G0 Submitted by: /N A

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample kg
G-1	.8	2.3	2.8	46	<.1	3.6	3.9	532	1.80	.5	2.6	.6	3.9	56	<.1	<.1	.1	35	.51	.076	7	11	.57	203	.117	1	.99	.085	.52	.2	<.01	2.3	.4	<.05	5	<.5	-
4110	.3	81.3	6.1	37	.2	1.2	3.8	363	1.14	.9	.5	15.9	1.1	63	<.1	.1	.1	27	1.08	.044	4	9	.33	212	.039	2	.58	.034	.10	.1	.01	1.1	<.1	<.05	3	<.5	6.77
4111	.8	37.3	3.9	39	<.1	1.9	4.2	447	1.37	.7	.8	2.3	1.7	92	<.1	.3	<.1	32	1.28	.047	5	10	.40	279	.046	2	.84	.062	.14	.1	<.01	1.6	<.1	<.05	4	<.5	3.14
4112	.3	28.6	2.4	40	<.1	2.0	4.4	416	1.62	.5	1.1	<.5	2.5	65	<.1	.1	.1	42	.85	.053	5	13	.42	257	.081	1	.70	.079	.10	.1	.01	1.3	<.1	<.05	4	<.5	4.00
4113	1.0	90.2	2.3	37	.2	1.3	3.9	417	1.31	.7	.8	<.5	1.9	71	<.1	.1	<.1	30	1.04	.045	5	10	.36	264	.046	2	.66	.048	.15	.2	.01	1.3	.1	<.05	4	<.5	4.53
4114	.1	43.4	1.9	35	<.1	1.4	4.1	516	1.17	<.5	.6	<.5	1.4	71	<.1	.1	<.1	27	1.33	.046	4	8	.36	137	.033	1	.52	.029	.08	<.1	.01	1.2	<.1	<.05	3	<.5	4.69
4115	.9	1582.2	2.1	31	3.3	.9	3.5	774	1.08	<.5	.5	4.1	1.5	97	<.1	.1	.1	14	2.20	.047	8	7	.26	170	.002	2	.55	.027	.22	.1	.01	1.0	<.1	<.05	2	<.5	4.16
4116	.3	300.3	3.2	45	1.0	1.4	4.0	545	1.28	1.4	.4	<.5	1.4	141	.1	.3	<.1	20	1.43	.051	7	6	.40	201	.002	2	.67	.032	.19	<.1	<.01	1.4	<.1	<.05	3	<.5	4.80
4117	.5	388.7	4.8	43	1.1	1.6	3.7	748	1.01	.5	.5	<.5	1.3	124	.1	.3	<.1	6	2.47	.045	7	7	.23	234	.001	3	.54	.011	.25	.2	.01	.8	<.1	<.05	1	<.5	4.70
4118	.2	14.3	5.4	34	<.1	.9	3.4	641	1.11	<.5	.4	<.5	1.3	106	.1	.1	<.1	13	2.29	.050	6	7	.26	211	.001	2	.64	.031	.28	.1	.01	1.1	<.1	<.05	2	<.5	4.33
RE 4118	.3	14.9	5.1	35	<.1	1.0	3.5	647	1.08	<.5	.5	<.5	1.3	110	.1	.1	<.1	13	2.29	.047	6	7	.26	208	.001	1	.64	.029	.27	<.1	<.01	1.2	<.1	<.05	2	<.5	-
RRE 4118	.9	16.8	5.1	33	<.1	1.2	3.4	638	1.14	<.5	.5	<.5	1.2	105	.1	.1	<.1	13	2.27	.048	6	9	.26	213	.001	2	.70	.032	.31	.1	<.01	1.1	<.1	<.05	2	<.5	-
4119	.2	43.2	2.4	40	<.1	1.4	4.2	525	1.26	<.5	.5	<.5	1.1	100	<.1	.1	<.1	20	1.58	.047	6	7	.34	221	.007	2	.61	.040	.18	<.1	<.01	1.3	<.1	<.05	2	<.5	4.52
4120	.7	29.2	2.8	40	<.1	1.4	3.9	570	1.22	<.5	.6	<.5	1.3	115	<.1	.1	<.1	19	2.01	.047	6	8	.30	187	.002	2	.62	.044	.19	.1	.01	1.2	<.1	<.05	2	<.5	4.82
4121	.3	462.1	3.1	36	.8	1.6	4.4	594	1.40	<.5	.4	<.5	1.0	104	.1	.1	.1	25	1.77	.050	6	10	.34	497	.009	3	.73	.050	.27	<.1	<.01	1.5	<.1	<.05	3	<.5	3.21
4122	.7	68.3	2.5	39	<.1	1.8	4.4	513	1.46	<.5	.5	<.5	.9	93	<.1	.1	<.1	32	1.34	.049	5	11	.37	422	.032	2	.68	.059	.16	.1	<.01	1.4	<.1	<.05	3	<.5	4.64
4123	.4	68.3	2.5	39	<.1	2.1	4.3	522	1.56	<.5	.5	<.5	.9	101	<.1	.1	<.1	33	1.35	.049	6	10	.37	442	.036	2	.78	.081	.21	<.1	<.01	1.4	<.1	<.05	3	<.5	4.23
4124	.7	83.4	3.6	41	.2	1.2	4.2	536	1.34	.6	.5	<.5	1.1	124	<.1	.1	<.1	24	1.60	.049	6	7	.35	300	.017	2	.68	.048	.17	.1	<.01	1.5	<.1	<.05	3	<.5	3.50
4125	.3	6.7	3.7	53	<.1	2.1	4.7	512	1.64	.8	.5	<.5	1.0	144	<.1	.2	<.1	38	1.44	.053	5	7	.52	238	.059	2	.86	.064	.13	<.1	<.01	2.0	<.1	<.05	4	<.5	3.94
4126	.7	6.3	2.9	41	<.1	1.8	4.3	386	1.51	.9	.5	<.5	1.1	86	<.1	.2	<.1	38	1.18	.048	5	12	.42	348	.075	3	.79	.067	.13	.1	<.01	1.7	<.1	<.05	4	<.5	4.10
4127(pulp)	652.5	7785.5	128.6	67	78.7	5.4	1.5	240	.88	59.9	1.0	28.3	.8	159	1.1	152.1	6.5	8	1.11	.038	4	225	.11	136	.006	<1	.30	.023	.18	.2	.42	.4	<.1	.76	2	1.3	-
4128(rock)	.7	21.4	2.4	33	<.1	3.1	6.6	468	2.19	.6	1.0	<.5	3.5	46	<.1	.1	<.1	53	.64	.042	6	10	.66	84	.149	1	1.30	.153	.20	.1	<.01	3.2	<.1	<.05	4	<.5	2.18
4129	1.1	5.5	2.8	40	<.1	1.6	4.4	438	1.71	.7	.5	<.5	1.1	97	<.1	.2	<.1	40	1.08	.050	6	13	.43	300	.060	2	.82	.091	.16	.1	<.01	1.5	<.1	<.05	4	<.5	3.69
4130	.2	26.3	3.0	40	<.1	.9	3.8	568	1.23	<.5	.4	<.5	1.0	99	<.1	.1	<.1	21	2.00	.049	6	7	.26	784	.006	1	.57	.034	.19	<.1	<.01	1.3	<.1	<.05	2	<.5	3.68
4501	.7	35.7	2.7	34	<.1	1.7	4.0	354	1.30	.8	.9	<.5	1.5	162	<.1	.1	<.1	28	1.24	.045	5	8	.37	168	.027	2	1.15	.070	.15	.1	<.01	2.4	<.1	<.05	4	<.5	5.10
4502	.5	108.1	2.2	39	<.1	2.8	4.6	401	1.53	.7	.8	<.5	1.5	148	<.1	.1	.1	35	1.28	.049	5	8	.42	173	.051	1	1.07	.096	.15	<.1	<.01	2.3	.1	<.05	5	<.5	5.75
4503	.5	78.0	2.5	39	<.1	1.0	4.0	292	1.36	1.7	.4	1.7	1.1	296	<.1	.1	.1	24	1.96	.046	6	5	.25	128	.002	1	1.03	.060	.10	<.1	<.01	1.5	<.1	<.05	4	<.5	2.19
4504	.4	92.0	1.9	32	<.1	1.4	4.1	521	1.26	.5	.5	1.3	1.1	131	<.1	.1	.1	26	2.04	.047	5	6	.35	595	.027	2	.88	.065	.15	<.1	<.01	2.1	<.1	<.05	4	<.5	4.56
4505	.5	16.1	1.7	36	<.1	1.8	4.6	441	1.59	.7	.6	<.5	.9	98	<.1	.1	<.1	34	1.41	.051	5	8	.43	933	.047	1	.88	.066	.09	.1	<.01	1.6	<.1	<.05	4	<.5	3.20
4506	.3	11.7	2.2	31	<.1	1.4	4.7	431	1.49	.8	.5	<.5	1.2	126	<.1	.2	<.1	34	1.50	.051	5	6	.43	120	.045	1	1.08	.066	.10	<.1	<.01	2.0	<.1	<.05	4	<.5	3.25
STANDARD DS7	20.6	109.2	67.6	395	.9	55.5	9.4	638	2.44	49.1	4.8	63.1	4.4	70	6.6	5.9	4.5	88	.95	.080	11	167	1.07	366	.118	39	.98	.079	.44	3.9	.20	2.4	4.2	.20	5	3.5	-

GROUP 1DX - 15.0 GM SAMPLE LEACHED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 300 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: DRILL CORE R150 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

11-17-06 A11:52 OUT

Data ___ FA ___ DATE RECEIVED: OCT 20 2006 DATE REPORT MAILED:.................

BRITISH COLUMBIA CERTIFIED ASSAYER
Jacky Wang

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9001 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Happy Creek Minerals Ltd. File # A608653 Page 1

2304 - 1066 W. Hastings S, Vancouver BC V6E 3A2 Submitted by: David Blann

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm
G-1	.4	1.9	3.5	48	<.1	3.8	4.4	540	1.90	<.5	3.1	.5	4.6	63	<.1	<.1	.1	42
4809	1.0	1170.9	2.6	26	1.0	.8	3.9	838	1.15	.7	.6	.7	1.7	90	<.1	.1	.1	19
4810	.2	413.8	3.2	40	.3	1.2	3.7	588	1.12	.5	.6	1.1	1.6	84	<.1	.1	.1	22
4811	.4	541.9	2.7	33	.3	1.3	4.0	785	1.18	<.5	.8	.7	1.6	83	<.1	.1	.1	21
4812	.2	461.6	2.8	33	.8	.7	3.6	770	1.02	<.5	.6	<.5	1.6	90	<.1	.1	.1	16
4813	1.5	>10000	2.3	19	>100	.6	2.8	879	.97	<.5	.5	9.4	1.4	62	.2	.1	4.0	8
4814	.3	415.0	2.0	30	.3	.9	4.0	1061	1.17	<.5	.7	<.5	1.2	95	<.1	.1	<.1	19
4815	1.1	519.5	2.4	28	.5	.8	4.0	764	1.05	<.5	.6	<.5	1.4	101	<.1	.1	.1	17
4816	1.2	937.7	1.9	25	.6	.7	3.6	1004	1.04	<.5	.7	<.5	1.2	94	<.1	.1	.1	15
4817	1.1	336.5	2.1	23	.2	.7	3.5	1012	.96	<.5	.6	<.5	1.3	113	<.1	.1	<.1	14
4818	.5	197.1	2.1	29	.1	.9	4.1	765	1.16	<.5	.8	<.5	1.6	111	<.1	.1	<.1	20
4819	2.8	1261.4	2.0	24	1.0	.7	3.5	967	1.03	<.5	.7	<.5	1.2	111	<.1	.1	.1	13
4820	1.2	577.5	2.1	28	.5	1.0	4.3	893	1.10	<.5	.6	<.5	1.2	93	<.1	.1	.1	15
4821	3.1	1498.2	2.1	14	1.3	.4	2.3	818	.75	<.5	.8	<.5	2.0	82	<.1	.1	.2	8
4822	20.3	1438.5	1.5	5	1.5	.2	.5	729	.36	.6	1.2	<.5	2.9	50	<.1	.1	.2	1
4823	6.9	661.6	2.2	5	.9	.3	1.9	444	.30	.7	1.6	.7	3.2	58	.1	.1	.1	1
RE 4823	7.1	680.0	2.3	5	.9	.2	1.9	464	.31	.6	1.9	<.5	3.5	61	.1	.1	.1	1
RRE 4823	6.2	623.2	2.1	5	.8	.3	1.9	443	.31	.5	1.7	1.3	3.4	59	.1	.1	.1	1
4824	1.9	624.6	3.0	21	.7	.8	2.9	598	.85	<.5	1.0	.6	2.1	78	.1	.1	.1	9
4825	.4	578.4	3.2	26	.6	.9	3.6	762	1.16	<.5	1.0	<.5	1.8	114	.1	.2	.1	16
4826	1.0	381.6	2.9	30	.3	1.0	3.6	595	1.13	.5	1.0	<.5	1.8	114	.1	.2	.1	21
4827	.7	356.2	2.8	27	.2	1.0	3.4	598	1.07	<.5	.9	.6	1.7	111	<.1	.1	.1	18
4828	2.7	1379.4	2.9	32	1.6	1.2	4.4	836	1.18	.6	1.0	<.5	1.6	130	.1	.1	.1	17
4829	2.8	1228.1	1.9	23	.8	1.1	4.4	783	1.16	<.5	.7	<.5	1.4	101	<.1	.1	.1	17
4830	5.1	1090.7	2.6	31	.7	1.1	4.7	755	1.24	.5	.9	<.5	1.8	138	<.1	.2	.2	19
4831	9.6	2220.1	2.6	28	1.8	.7	4.3	1090	1.21	.5	1.2	.5	1.4	128	.1	.1	.3	14
4832	9.0	1761.5	3.6	36	1.1	1.2	5.6	1501	1.46	<.5	.8	<.5	1.3	202	.2	.1	.3	13
4833	4.8	1434.6	2.4	22	1.5	.8	3.6	951	1.10	<.5	.6	<.5	1.3	118	.1	.1	.2	14
4834	9.8	2860.3	2.0	21	3.0	.8	4.1	1004	1.21	<.5	.8	<.5	1.5	97	.1	.1	.4	19
4835	1.9	4264.4	2.8	23	6.0	.6	3.3	1079	1.13	.6	1.0	<.5	1.7	124	.1	.1	.5	16
4836	2.0	819.8	1.7	16	.5	.5	2.0	624	.72	<.5	.5	.9	2.2	90	<.1	.1	.1	10
4837	.3	237.6	2.1	34	.2	1.4	4.4	613	1.26	.5	.7	<.5	1.6	111	.1	.2	.1	23
4838	.7	2428.1	2.4	22	2.5	.9	3.2	558	.93	.5	.9	<.5	1.6	90	.1	.6	.6	14
4839	.3	980.7	2.0	35	.6	1.4	5.1	797	1.42	.7	.7	<.5	1.6	103	<.1	.9	.3	22
4840	.4	149.3	2.7	49	<.1	1.8	6.2	725	1.41	.5	.6	<.5	1.5	112	<.1	.6	.1	21
STANDARD DS7	20.3	106.3	68.7	386	.9	54.2	9.6	620	2.36	46.8	4.9	62.3	4.6	73	6.1	5.7	4.6	83

SAMPLE#	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample kg
G-1	.56	.078	9	10	.61	225	.131	2	1.02	.087	.51	.1	<.01	2.0	.4	<.05	5	<.5	-
4809	2.21	.049	7	2	.28	434	.002	2	.37	.019	.20	.1	.01	1.2	<.1	<.05	1	<.5	2.74
4810	1.75	.043	8	4	.33	331	.002	3	.54	.049	.24	<.1	.02	1.4	<.1	<.05	2	<.5	6.01
4811	1.99	.044	9	3	.30	271	.002	3	.54	.042	.25	.1	.01	1.5	.1	<.05	2	<.5	6.15
4812	2.33	.048	8	3	.20	444	.001	2	.51	.030	.27	<.1	.01	1.4	<.1	<.05	1	<.5	4.20
4813	1.97	.045	7	3	.10	125	.001	3	.44	.008	.39	.1	.04	.9	.1	.73	1	<.5	2.01
4814	2.42	.041	6	3	.23	478	.001	2	.56	.025	.23	<.1	.01	1.2	<.1	<.05	2	<.5	5.81
4815	2.28	.046	7	4	.18	233	.001	3	.54	.030	.26	<.1	.02	1.4	<.1	<.05	2	<.5	5.79
4816	2.61	.042	6	3	.31	312	.001	2	.49	.016	.30	.4	.01	1.0	<.1	<.05	1	<.5	5.52
4817	2.79	.044	7	3	.21	279	.001	2	.51	.019	.31	<.1	<.01	1.2	<.1	<.05	1	<.5	6.35
4818	2.12	.048	8	4	.22	150	.001	2	.59	.037	.29	.1	.01	1.3	<.1	<.05	2	<.5	4.89
4819	2.26	.046	7	4	.18	227	.001	2	.56	.024	.35	.1	<.01	.8	<.1	<.05	1	<.5	5.36
4820	2.09	.051	8	3	.19	171	.001	3	.61	.028	.30	<.1	<.01	1.0	<.1	<.05	2	<.5	5.32
4821	2.04	.042	7	3	.11	182	.001	2	.53	.022	.30	.1	.01	.5	<.1	<.05	1	<.5	4.60
4822	1.73	.012	7	4	.06	109	<.001	2	.48	.016	.34	.1	.02	.3	<.1	<.05	1	<.5	3.50
4823	1.57	.010	11	4	.05	198	<.001	3	.39	.022	.30	<.1	.03	.3	<.1	<.05	1	<.5	2.25
RE 4823	1.61	.011	11	4	.05	209	<.001	3	.40	.026	.30	.1	.02	.2	<.1	<.05	1	<.5	-
RRE 4823	1.58	.010	10	4	.05	199	<.001	2	.41	.026	.30	.1	.03	.3	<.1	<.05	1	<.5	-
4824	1.91	.037	7	3	.16	252	.001	2	.51	.017	.30	.1	.01	.8	<.1	<.05	1	<.5	6.12
4825	2.19	.050	10	4	.17	424	.001	3	.66	.033	.35	.1	<.01	1.3	<.1	<.05	2	<.5	5.18
4826	1.78	.044	8	6	.26	414	.003	2	.66	.047	.30	<.1	.03	1.3	<.1	<.05	2	<.5	6.26
4827	1.84	.041	8	5	.26	375	.003	3	.65	.043	.29	<.1	.01	1.3	<.1	<.05	2	<.5	5.07
4828	2.29	.042	8	4	.29	257	.001	3	.62	.030	.31	.1	.02	1.1	<.1	<.05	2	<.5	4.95
4829	1.90	.043	7	4	.24	254	.001	2	.65	.037	.33	<.1	.01	1.0	<.1	<.05	2	<.5	6.10
4830	2.22	.041	8	4	.20	278	.001	3	.63	.033	.32	<.1	.02	1.4	<.1	<.05	2	<.5	5.82
4831	2.56	.044	8	4	.25	894	.001	2	.63	.020	.38	.1	.03	.9	<.1	.09	2	<.5	5.37
4832	3.88	.042	8	4	.43	740	.001	3	.57	.019	.36	.1	.01	1.1	<.1	.07	1	<.5	6.54
4833	2.50	.048	8	4	.18	166	.001	3	.63	.021	.40	1.3	.02	1.1	<.1	<.05	1	<.5	5.68
4834	2.19	.050	8	4	.18	166	.001	2	.64	.027	.39	.1	.03	1.3	<.1	.09	2	<.5	6.54
4835	2.72	.047	7	4	.19	214	.001	3	.66	.019	.40	.1	.05	1.0	.1	.13	2	<.5	5.51
4836	2.05	.032	8	4	.11	128	.001	2	.57	.032	.33	.1	.01	.6	.1	<.05	2	<.5	3.54
4837	2.05	.046	8	4	.26	431	.001	2	.70	.045	.25	<.1	.01	1.5	<.1	<.05	2	<.5	6.36
4838	1.74	.032	8	4	.15	426	.001	2	.67	.030	.32	.1	.02	.9	<.1	.08	2	<.5	1.85
4839	1.96	.048	8	4	.35	354	.002	2	.80	.036	.27	.1	.01	1.8	<.1	<.05	3	<.5	6.26
4840	2.06	.056	8	4	.40	88	.001	2	.80	.053	.20	<.1	<.01	1.5	<.1	<.05	3	<.5	4.15
STANDARD DS7	.93	.078	14	249	1.03	366	.121	41	1.00	.093	.44	3.7	.19	2.5	4.0	.20	5	3.5	-

GROUP 1DX - 15.0 GM SAMPLE LEACHED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 300 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: DRILL CORE R150 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

12-20-06 P04:04 OUT

Data ___ FA ___ DATE RECEIVED: NOV 17 2006 DATE REPORT MAILED:.................

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL

Happy Creek Minerals Ltd. FILE # A608653

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm
G-1	.6	2.0	3.2	46	<.1	5.7	4.7	529	1.78	<.5	2.4	<.5	3.9	46	<.1	<.1
4841	.8	1666.6	2.5	40	1.0	.5	4.9	1367	.99	<.5	.4	<.5	1.2	118	.1	.2
4842	.2	271.5	2.2	39	.2	1.5	4.9	763	1.15	<.5	.6	<.5	1.2	120	<.1	.2
4843	.8	259.0	1.9	31	.2	1.3	4.8	842	1.32	<.5	.5	<.5	.8	132	<.1	.1
4844	10.6	484.3	1.8	28	.3	1.2	4.0	645	1.27	<.5	.8	<.5	2.2	104	<.1	.1
4845	2.0	314.7	2.7	57	.2	2.4	8.7	1676	1.79	.7	.8	<.5	1.7	179	<.1	.3
4846	.2	556.9	1.9	23	.3	1.7	7.6	610	1.37	<.5	.5	<.5	1.1	100	<.1	.8
4847	.7	383.8	1.8	23	.2	1.4	7.6	737	1.46	<.5	.5	<.5	1.1	124	<.1	.7
4848	.4	105.0	2.9	23	<.1	.9	3.0	784	.97	<.5	.5	<.5	1.1	203	.1	.1
4849 (rock)	1.2	137.9	3.1	32	<.1	11.7	8.8	217	2.20	1.7	2.0	<.5	5.8	17	.1	.1
4850 (pulp)	328.0	1704.1	125.5	139	33.5	72.3	35.5	952	6.37	261.7	1.9	6131.1	3.3	99	1.6	67.6
STANDARD DS7	20.8	107.5	70.6	397	.9	56.7	9.6	634	2.46	48.8	4.9	75.5	4.6	74	6.4	6.1

SAMPLE#	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample kg
G-1	.1	35	.44	.087	7	63	.62	214	.118	1	.92	.045	.54	.2	<.01	1.9	.4	<.05	5	.6	-
4841	.2	7	2.83	.059	7	4	.25	381	.001	3	.31	.009	.21	.1	.01	.9	<.1	<.05	1	<.5	5.87
4842	.1	17	2.21	.055	6	3	.31	158	.001	1	.39	.021	.12	<.1	.02	1.2	<.1	<.05	1	<.5	5.95
4843	.1	22	2.48	.051	6	4	.40	331	.003	1	.40	.020	.11	<.1	.01	1.5	<.1	<.05	2	<.5	6.32
4844	.1	25	1.93	.048	6	4	.32	296	.005	1	.42	.021	.13	.1	<.01	1.5	<.1	<.05	2	.7	6.36
4845	.1	22	3.77	.060	11	5	.63	248	.002	2	.32	.014	.19	.1	<.01	1.8	.1	<.05	1	<.5	3.09
4846	.2	14	1.71	.050	7	3	.42	33	.001	2	.69	.019	.13	.1	<.01	1.4	<.1	<.05	3	<.5	5.00
4847	.3	14	2.13	.052	8	5	.42	41	.001	2	.71	.020	.15	.1	<.01	1.3	<.1	<.05	3	<.5	3.86
4848	<.1	9	3.02	.046	7	3	.30	589	.001	2	.29	.014	.17	.1	<.01	1.1	<.1	<.05	1	<.5	6.27
4849 (rock)	<.1	85	1.05	.060	8	17	.64	57	.173	4	1.05	.033	.20	.1	<.01	1.0	<.1	<.05	6	<.5	.67
4850 (pulp)	185.1	43	8.37	.086	13	61	.37	36	.127	31	1.47	.027	.18	36.6	11.61	3.9	.2	2.78	6	2.1	-
STANDARD DS7	4.6	84	.97	.078	14	269	1.06	381	.129	37	1.03	.090	.46	3.9	.20	2.6	4.1	.21	5	3.9	-

Sample type: DRILL CORE R150.

Data ___ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9001 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Happy Creek Minerals Ltd. PROJECT RATERIA File # A608657 Page 1

2304 - 1066 W. Hastings S, Vancouver BC V6E 3A2 Submitted by: David Blann

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample kg
G-1	.6	2.0	2.5	45	<.1	6.1	4.2	517	1.73	<.5	2.0	1.6	3.6	41	<.1	<.1	.1	33	.39	.081	6	59	.61	195	.108	1	.88	.046	.53	.2	<.01	1.7	.4	<.05	5	<.5	-
4333	.2	17.2	2.2	17	<.1	.8	2.6	550	.91	.9	.4	1.6	1.1	153	<.1	.1	<.1	14	2.07	.046	6	2	.17	633	.002	2	.33	.019	.17	<.1	<.01	1.1	<.1	<.05	1	<.5	2.60
4334	1.0	34.7	2.3	29	<.1	1.5	4.0	377	1.25	1.2	.6	1.1	1.2	132	<.1	.2	<.1	26	1.15	.043	5	7	.35	235	.022	1	.62	.033	.11	<.1	<.01	1.2	<.1	<.05	3	<.5	6.70
4335	.5	29.3	1.7	31	<.1	1.7	4.1	336	1.29	.8	.7	1.0	1.2	89	<.1	.1	<.1	34	.87	.040	4	7	.37	208	.057	1	.67	.039	.11	<.1	<.01	.9	<.1	<.05	4	<.5	5.65
4630	.8	6.4	1.5	21	<.1	1.5	3.9	381	1.10	1.6	.5	.7	1.0	117	<.1	.5	<.1	25	2.72	.056	6	4	.46	58	.001	1	.35	.024	.06	<.1	.01	2.3	<.1	<.05	1	<.5	2.10
4631	.6	6.1	2.2	40	<.1	2.5	5.4	499	1.39	.8	.4	.6	.9	135	<.1	.4	<.1	25	2.27	.058	5	4	.60	113	.013	1	.99	.024	.09	.1	.01	1.7	<.1	<.05	4	<.5	6.40
4632	84.6	6.3	8.9	32	.1	2.2	5.1	330	1.25	1.7	.4	.5	1.0	273	.1	.5	<.1	25	2.13	.058	5	3	.39	99	.001	1	1.00	.022	.09	.7	.03	1.6	.2	<.05	4	<.5	5.40
4633	1.1	11.0	2.0	42	<.1	2.7	6.1	486	1.48	.9	.4	.5	.9	170	<.1	.4	<.1	34	1.97	.061	5	4	.71	91	.036	2	1.15	.037	.07	.1	<.01	2.4	<.1	<.05	5	<.5	5.65
4634	.3	7.4	2.4	12	<.1	1.2	2.1	526	.88	2.1	.5	.6	1.3	195	<.1	2.0	<.1	18	3.33	.057	6	3	.26	88	.003	2	.68	.015	.09	.1	<.01	1.6	<.1	<.05	3	<.5	3.40
4635	1.1	2.5	1.2	26	<.1	2.3	4.9	331	1.13	1.4	.4	.7	1.3	112	<.1	.6	<.1	22	1.59	.051	5	5	.45	61	.003	1	.69	.032	.05	.1	<.01	1.9	<.1	<.05	3	<.5	3.10
4636	.2	4.7	1.8	25	<.1	2.0	4.6	296	1.33	3.5	.4	.7	1.3	138	<.1	.7	<.1	29	1.61	.057	7	3	.37	46	.001	2	.44	.031	.05	.1	<.01	2.5	<.1	<.05	2	<.5	3.00
4637	.9	5.3	2.5	27	<.1	1.9	4.8	435	1.34	2.1	.5	1.6	1.5	163	<.1	.6	<.1	27	2.40	.046	7	3	.59	56	.001	1	.47	.030	.07	.1	.01	1.9	.1	<.05	2	<.5	6.30
4638	.2	4.4	2.7	37	<.1	2.4	7.4	531	1.82	1.2	.5	1.0	.9	202	<.1	.2	<.1	35	3.15	.048	4	2	.62	79	.001	1	.53	.026	.05	.1	<.01	2.4	<.1	<.05	2	<.5	3.20
4639	.6	8.9	2.2	28	<.1	1.9	5.7	359	1.44	2.0	.7	.5	1.2	165	<.1	.3	<.1	38	1.96	.047	5	4	.54	119	.003	2	.46	.033	.07	.1	<.01	3.0	<.1	<.05	2	<.5	3.30
4640	.3	7.7	2.0	22	<.1	2.0	4.3	415	1.06	2.4	.7	.5	1.3	128	<.1	1.2	<.1	24	2.18	.076	6	3	.38	106	.003	2	.47	.022	.08	.2	<.01	1.7	<.1	<.05	2	<.5	2.80
4641	.4	8.2	1.8	21	<.1	1.2	4.4	359	1.18	.9	.8	.9	1.7	128	<.1	.2	<.1	16	2.25	.042	5	3	.35	166	.001	2	.51	.028	.13	.1	<.01	1.3	<.1	<.05	2	<.5	6.40
4642	.3	5.0	2.3	22	<.1	1.4	4.1	362	1.20	.9	.7	.5	1.6	94	<.1	.2	<.1	23	1.91	.041	5	3	.38	261	.001	2	.36	.028	.09	.1	<.01	1.8	<.1	<.05	1	<.5	4.70
4643	.5	45.9	2.4	23	<.1	1.3	3.9	370	1.20	.6	1.4	<.5	1.6	112	<.1	.1	<.1	22	1.91	.038	5	4	.31	242	.001	2	.39	.027	.13	.1	<.01	1.5	<.1	<.05	1	<.5	5.50
4644	.3	15.5	2.4	21	<.1	1.1	3.5	412	1.07	.6	1.3	<.5	1.6	101	<.1	.1	<.1	20	2.31	.040	5	3	.36	355	.001	2	.28	.023	.11	<.1	<.01	1.7	<.1	<.05	1	<.5	5.25
4645	.5	6.7	2.4	28	<.1	1.4	4.4	342	1.30	1.0	1.5	<.5	1.2	121	<.1	.1	<.1	25	1.81	.046	6	4	.30	117	.003	2	.57	.029	.10	.1	<.01	1.7	<.1	<.05	2	<.5	3.60
4646	.2	29.0	2.0	10	<.1	.6	1.8	292	.59	<.5	1.0	.9	2.3	95	<.1	.1	<.1	8	1.96	.025	5	3	.15	118	<.001	2	.29	.025	.13	.1	<.01	.6	<.1	<.05	1	<.5	5.40
4647 (rock)	1.0	102.7	3.2	34	<.1	11.8	9.0	219	2.21	1.5	2.2	1.4	6.4	18	.1	.1	<.1	91	.85	.061	8	19	.63	75	.188	4	1.00	.049	.30	.2	<.01	1.2	<.1	<.05	6	<.5	1.10
4648	.2	222.1	2.4	4	.1	.3	.7	148	.29	.5	.9	.6	2.5	69	<.1	.1	<.1	3	1.27	.009	5	3	.04	48	<.001	1	.21	.020	.12	.1	.01	.3	<.1	<.05	1	<.5	7.30
4649	.5	1052.7	2.5	6	.6	.2	.7	215	.38	.7	.6	2.6	2.1	72	<.1	.1	.1	4	1.51	.014	4	4	.07	52	.001	1	.24	.020	.15	.2	.01	.3	<.1	<.05	1	<.5	7.45
4650	.2	144.6	2.7	8	.2	.1	.7	193	.36	<.5	.8	.7	2.4	85	<.1	.1	<.1	3	1.49	.005	4	1	.12	137	<.001	1	.22	.013	.11	.3	.01	.3	<.1	<.05	1	<.5	7.80
4651	.7	63.6	3.4	7	<.1	<.1	.8	211	.34	<.5	.6	.8	3.2	87	<.1	<.1	<.1	5	1.70	.007	6	3	.08	285	<.001	2	.25	.019	.14	.1	<.01	.3	<.1	<.05	1	<.5	7.00
RE 4651	.7	61.7	3.2	7	<.1	<.1	.8	211	.34	<.5	.7	.7	3.0	80	<.1	<.1	<.1	4	1.71	.007	6	3	.08	270	<.001	2	.24	.019	.12	.1	<.01	.3	<.1	<.05	1	<.5	-
RRE 4651	.5	61.4	3.2	7	<.1	.1	.7	209	.36	<.5	.6	1.1	3.0	82	<.1	<.1	<.1	5	1.69	.006	6	2	.07	257	<.001	2	.23	.019	.13	.1	<.01	.3	<.1	<.05	1	<.5	-
4652	1.0	136.8	2.7	4	.1	<.1	.5	166	.25	<.5	.5	.9	3.1	77	.1	.1	<.1	1	1.54	.004	6	4	.04	126	<.001	2	.22	.017	.13	.1	<.01	.3	<.1	<.05	1	<.5	7.30
4653	.4	34.5	2.3	15	<.1	.4	1.3	195	.57	.6	1.0	.8	2.3	68	<.1	.1	<.1	7	1.15	.011	4	3	.11	123	<.001	2	.29	.024	.10	.1	.01	.7	<.1	<.05	1	<.5	6.70
4654	.7	35.4	2.6	12	<.1	.4	1.5	191	.48	1.0	1.4	1.3	2.2	85	<.1	.1	<.1	5	1.37	.014	4	3	.11	142	<.001	1	.24	.024	.16	.2	<.01	.7	.1	<.05	1	<.5	7.60
4655	.3	97.2	2.8	18	<.1	.8	2.3	207	.70	1.2	1.2	2.3	2.4	71	<.1	.1	.1	11	1.13	.026	6	3	.14	97	.005	1	.38	.029	.13	.1	.01	.9	<.1	<.05	2	<.5	6.60
4656 (pulp)	690.7	7269.2	122.5	60	70.6	5.2	1.5	233	.83	53.4	.9	25.5	.7	127	.2	138.9	6.3	7	1.03	.033	4	232	.11	120	.005	<1	.30	.019	.15	.2	.41	.5	<.1	.82	1	1.1	-
4657	.5	86.1	3.5	20	<.1	.5	1.7	182	.63	1.3	.8	.7	2.0	92	<.1	.2	.1	9	1.21	.036	9	3	.07	77	.001	<1	.29	.023	.15	.2	<.01	.9	<.1	<.05	1	<.5	4.90
4658	.3	89.9	3.0	17	<.1	.6	1.8	263	.61	<.5	.6	.7	1.6	89	<.1	.2	<.1	10	1.68	.035	7	2	.14	93	.001	<1	.30	.025	.16	.2	<.01	.9	<.1	<.05	1	<.5	4.65
STANDARD DS7	21.3	106.0	67.5	413	.9	56.4	9.3	641	2.44	48.1	4.9	65.3	4.6	74	6.4	5.8	4.4	85	.97	.078	13	264	1.07	380	.125	40	1.08	.104	.46	3.9	.19	2.5	4.2	.21	5	3.7	-

GROUP 1DX - 15.0 GM SAMPLE LEACHED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 300 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: DRILL CORE R150 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ✓ FA ____ DATE RECEIVED: NOV 14 2006 DATE REPORT MAILED:................ 12-20-06 A11:05 OUT

BRITISH COLUMBIA CERTIFIED ASSAYER — C. L. — Clarence Leong

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample kg
G-1	.2	2.5	3.2	49	<.1	4.2	4.5	559	1.93	<.5	2.9	2.5	4.3	59	<.1	<.1	.1	43	.57	.081	8	13	.61	222	.125	1	1.09	.099	.52	.1	.01	2.0	.4	<.05	5	<.5	-
4659	.7	62.7	2.4	30	<.1	1.5	3.6	325	1.02	.9	.8	.6	1.5	108	<.1	.1	<.1	24	1.48	.037	6	5	.27	219	.019	1	.73	.050	.15	.1	.02	1.5	<.1	<.05	3	<.5	6.45
4660	.2	8.8	1.6	32	<.1	1.0	3.1	380	1.04	1.2	.7	.9	1.4	109	<.1	.2	<.1	27	1.84	.041	6	4	.26	154	.019	1	.55	.040	.08	.1	<.01	1.3	<.1	<.05	3	<.5	5.80
4661	.5	7.0	1.9	34	<.1	1.3	3.8	436	1.25	.9	.8	<.5	1.3	206	<.1	.1	<.1	32	2.02	.042	5	4	.37	167	.028	1	.72	.044	.07	.1	.02	1.2	<.1	<.05	4	<.5	7.90
4662	.1	3.2	2.2	23	<.1	.9	2.9	447	.77	.7	.7	.6	1.7	176	<.1	.5	<.1	15	2.39	.050	6	4	.28	121	.007	2	.73	.030	.14	.1	.01	1.0	<.1	<.05	3	<.5	7.30
4663	.7	253.3	2.0	32	.1	1.3	4.0	431	1.02	.5	.8	<.5	1.7	173	<.1	.2	.1	17	1.82	.040	7	4	.33	122	.002	1	.63	.039	.10	.1	<.01	1.1	<.1	<.05	2	<.5	6.75
4664	.1	45.0	2.6	36	<.1	1.6	3.8	384	1.10	1.1	.7	1.0	1.4	130	<.1	.2	<.1	24	1.56	.041	5	4	.34	186	.015	2	.82	.044	.09	<.1	<.01	1.7	<.1	<.05	3	<.5	7.50
4665	.6	43.5	1.8	35	<.1	1.5	4.4	445	1.18	.9	.5	.6	1.5	101	<.1	.1	<.1	24	1.65	.044	5	6	.37	163	.021	2	.77	.047	.12	<.1	<.01	1.3	<.1	<.05	3	<.5	7.10
4666	.1	16.6	2.5	36	<.1	1.6	4.3	356	1.01	<.5	.7	.9	1.6	137	<.1	.2	<.1	21	1.56	.043	5	4	.38	226	.028	2	.88	.044	.12	.1	<.01	1.4	<.1	<.05	4	<.5	7.35
4751	5.9	15.4	1.6	43	<.1	1.4	3.5	826	.93	.5	.6	.8	2.1	35	<.1	.3	.1	17	1.60	.040	6	5	.31	59	.004	1	.52	.028	.15	.1	<.01	.8	<.1	<.05	2	<.5	4.60
4752	1.7	12.9	1.4	40	<.1	1.6	3.7	632	1.07	.5	.5	.9	1.5	46	<.1	.1	<.1	23	1.53	.037	5	3	.34	74	.017	<1	.59	.028	.08	.1	.01	1.2	<.1	<.05	3	<.5	6.00
4753	1.1	11.4	1.3	44	<.1	1.3	4.2	627	1.21	.6	.6	1.3	1.8	66	<.1	.1	<.1	24	1.66	.041	7	4	.36	78	.006	1	.67	.032	.11	<.1	<.01	1.3	<.1	<.05	3	<.5	3.35
4754	.1	20.8	1.8	42	<.1	1.5	4.2	548	1.29	<.5	.7	1.2	1.3	64	<.1	.1	<.1	33	1.10	.040	4	5	.41	236	.045	1	.76	.037	.08	.1	<.01	1.6	<.1	<.05	4	<.5	4.70
4755	.5	10.9	2.3	39	<.1	1.6	4.4	510	1.33	.6	.6	1.5	1.4	135	<.1	.1	<.1	34	1.55	.042	5	5	.35	182	.035	1	.88	.043	.10	<.1	<.01	1.8	<.1	<.05	4	<.5	2.40
4756	.2	7.3	2.0	40	<.1	1.7	4.0	493	1.20	.5	.7	.7	1.2	67	<.1	.1	<.1	31	1.10	.041	5	4	.36	119	.040	1	.73	.043	.11	.1	.01	1.6	<.1	<.05	4	<.5	3.10
RE 4756	.1	7.0	1.9	39	<.1	1.7	4.0	479	1.18	.6	.7	<.5	1.2	63	<.1	.1	<.1	30	1.08	.042	5	5	.35	113	.039	1	.72	.043	.10	.1	<.01	1.6	<.1	<.05	4	<.5	-
RRE 4756	.3	8.1	2.0	40	<.1	1.3	4.1	506	1.21	.6	.7	<.5	1.2	68	<.1	.1	<.1	30	1.20	.043	4	6	.37	139	.031	1	.68	.034	.09	.1	<.01	1.5	<.1	<.05	3	<.5	-
4757	.1	12.1	1.7	44	<.1	1.7	4.3	605	1.32	.6	.7	1.4	1.2	72	<.1	.1	<.1	34	1.09	.044	4	4	.41	154	.056	1	.78	.049	.09	.1	<.01	1.4	<.1	<.05	4	<.5	3.60
4758	.5	9.9	1.6	42	<.1	1.4	4.2	508	1.32	.5	.6	.9	1.2	52	<.1	.1	<.1	36	.96	.042	4	7	.38	103	.068	1	.78	.046	.08	.1	<.01	1.4	<.1	<.05	4	<.5	4.50
4759	.2	12.5	2.1	46	<.1	1.7	4.8	681	1.34	<.5	.5	1.1	1.0	86	<.1	.1	<.1	35	1.13	.047	4	4	.46	455	.057	1	.80	.037	.08	.1	<.01	1.4	<.1	<.05	4	<.5	4.40
4760	.4	13.7	1.3	45	<.1	1.5	4.8	607	1.28	<.5	.4	.9	1.0	84	<.1	.1	<.1	31	1.04	.046	4	5	.41	114	.032	<1	.68	.032	.07	.1	<.01	1.4	<.1	<.05	3	<.5	3.90
4761	.2	11.1	1.4	59	<.1	1.7	4.6	722	1.38	.5	.5	1.5	.9	111	<.1	.1	<.1	35	1.24	.047	4	4	.45	101	.059	1	.79	.040	.09	.1	<.01	1.6	<.1	<.05	4	<.5	4.40
4762	.7	67.5	1.8	61	<.1	1.8	5.3	830	1.27	.5	.5	<.5	1.0	83	<.1	.1	.1	29	1.45	.046	4	5	.43	43	.043	2	.77	.037	.12	.1	<.01	1.4	<.1	<.05	4	<.5	3.20
4763	.2	238.5	1.4	32	<.1	1.6	4.4	510	1.39	.6	.9	.6	1.5	97	<.1	.1	.1	34	1.12	.045	6	3	.33	101	.010	1	.46	.040	.11	<.1	<.01	1.8	.1	<.05	2	<.5	3.90
4764	1.3	213.2	2.0	29	<.1	1.4	3.7	684	1.21	<.5	.7	<.5	1.5	95	<.1	.2	.1	26	1.49	.046	7	6	.26	83	.004	2	.52	.049	.19	<.1	<.01	1.6	<.1	<.05	2	<.5	2.90
STANDARD DS7	20.9	106.3	67.4	392	1.0	57.1	9.8	634	2.43	47.3	4.6	51.5	4.3	77	6.4	6.0	4.5	84	.94	.081	13	278	1.05	378	.117	40	1.01	.094	.46	3.9	.19	2.4	4.2	.21	5	3.7	-

Sample type: DRILL CORE R150. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9001 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Happy Creek Minerals Ltd. PROJECT RATERIA File # A608752 Page 1

2304 - 1066 W. Hastings S, Vancouver BC V6E 3A2 Submitted by: David Blann

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample kg
G-1	.5	2.1	2.0	43	<.1	5.7	3.9	510	1.67	<.5	1.7	.8	3.2	39	<.1	<.1	<.1	34	.38	.077	5	52	.56	189	.099	<1	.83	.045	.48	.2	<.01	1.6	.4	<.05	4	<.5	-
4336	.4	8.2	4.1	28	<.1	.9	3.5	745	1.08	<.5	.4	1.5	.9	220	.1	.2	<.1	14	2.99	.055	7	3	.25	478	.001	1	.30	.019	.17	<.1	.01	1.4	<.1	.06	1	<.5	6.30
4337	.2	14.7	2.3	27	<.1	1.3	3.5	519	1.08	<.5	.4	1.6	.8	178	.1	.1	<.1	19	2.08	.053	7	3	.30	502	.001	<1	.35	.026	.14	.2	<.01	1.3	<.1	<.05	1	.5	5.70
4338	.3	51.1	1.8	14	<.1	.6	2.4	390	.70	<.5	.5	<.5	1.5	115	<.1	.1	<.1	12	1.54	.030	6	3	.15	275	.001	<1	.25	.024	.13	<.1	<.01	.8	<.1	<.05	1	<.5	7.20
4339	.5	28.1	1.7	27	<.1	.9	3.4	414	1.05	<.5	.7	<.5	1.2	118	<.1	.1	<.1	24	1.44	.044	6	3	.23	315	.006	1	.39	.028	.11	<.1	<.01	1.4	<.1	<.05	2	<.5	5.80
4340	.9	42.0	3.7	28	<.1	1.0	3.6	696	1.15	.5	.6	<.5	1.2	210	<.1	.1	<.1	20	2.29	.045	7	3	.23	599	.002	<1	.39	.026	.11	<.1	<.01	1.5	<.1	.06	2	<.5	5.50
4341	.2	12.1	2.2	31	<.1	1.0	3.6	497	1.15	<.5	.5	<.5	1.3	151	<.1	.1	<.1	24	1.68	.050	7	3	.31	533	.005	<1	.43	.029	.13	<.1	<.01	1.4	<.1	<.05	2	<.5	2.50
4342	.7	49.8	2.7	19	<.1	.7	2.6	760	.88	<.5	.7	.5	1.5	199	<.1	.1	<.1	16	2.63	.048	8	4	.24	317	.003	<1	.34	.019	.15	.1	<.01	1.0	<.1	<.05	1	<.5	3.00
4343	.3	45.0	3.8	15	<.1	.6	2.5	759	.73	<.5	.6	<.5	1.4	316	.1	.1	<.1	11	3.00	.049	8	1	.18	121	.001	<1	.36	.014	.16	.2	<.01	.9	<.1	<.05	1	<.5	7.00
4344	1.6	256.6	3.2	26	.3	.6	3.6	765	.98	<.5	.6	<.5	1.1	329	.1	.1	.1	9	3.07	.045	7	2	.42	235	<.001	1	.38	.017	.21	.1	<.01	.8	<.1	<.05	1	<.5	7.20
4345	1.5	235.4	3.1	29	.3	.5	3.3	613	1.00	.9	.3	<.5	.9	166	.1	.2	.1	12	2.62	.050	8	2	.18	393	.001	2	.29	.018	.21	<.1	.01	1.1	<.1	.07	1	<.5	6.50
4346	1.8	65.9	3.5	24	<.1	.7	3.3	668	1.04	1.1	.3	.9	.9	164	.1	.3	.1	13	2.69	.053	8	3	.21	660	.001	1	.25	.020	.18	<.1	<.01	1.3	.1	<.05	1	<.5	6.80
4347	1.6	123.2	4.0	20	<.1	.8	3.2	642	.98	<.5	.3	<.5	.9	160	.1	.1	.1	13	2.59	.048	7	3	.15	691	.001	2	.27	.022	.17	<.1	<.01	1.2	<.1	.06	1	<.5	6.00
RE 4347	1.7	122.5	4.4	20	.1	.7	3.2	640	.99	<.5	.3	1.0	1.0	172	.1	.1	.1	14	2.60	.050	7	3	.15	743	.001	1	.28	.022	.18	<.1	<.01	1.3	<.1	<.05	1	<.5	-
RRE 4347	2.3	119.1	4.1	22	<.1	.6	3.4	658	1.02	<.5	.3	.9	.9	170	.1	.1	.1	14	2.68	.051	7	4	.16	659	.001	2	.31	.023	.19	<.1	<.01	1.3	<.1	<.05	1	<.5	-
4348	.3	149.6	2.5	18	.1	.7	3.6	1693	1.02	<.5	.2	<.5	.8	144	.1	.1	<.1	5	4.16	.038	6	2	.28	173	<.001	1	.18	.007	.15	<.1	<.01	.6	<.1	<.05	<1	<.5	3.40
4349	2.4	45.1	1.9	23	<.1	1.3	3.9	526	1.25	<.5	.4	<.5	.8	99	<.1	.2	<.1	23	1.80	.045	6	5	.32	542	.005	1	.50	.033	.13	<.1	<.01	1.5	<.1	<.05	2	<.5	4.80
4667	.1	58.5	2.1	23	<.1	1.3	2.4	276	.58	<.5	.5	<.5	1.1	131	<.1	.3	<.1	11	1.77	.038	4	3	.25	91	.012	<1	.54	.023	.09	<.1	<.01	.9	<.1	<.05	2	<.5	7.60
4668	.3	50.4	3.0	41	<.1	1.4	4.3	439	1.11	.5	.9	<.5	1.9	150	<.1	.2	<.1	20	1.71	.043	4	4	.40	137	.022	2	.82	.047	.11	<.1	<.01	1.8	<.1	<.05	3	<.5	9.00
4669	.2	207.4	2.9	34	.3	1.6	4.2	405	1.07	.6	.7	1.1	1.5	107	<.1	.2	.1	23	1.55	.043	5	3	.35	156	.039	2	.87	.053	.10	.4	<.01	2.1	<.1	<.05	4	<.5	6.50
4670	.3	49.0	3.0	28	<.1	1.1	3.1	351	.83	<.5	.8	<.5	1.6	94	<.1	.1	<.1	17	1.67	.034	6	4	.25	176	.018	1	.68	.051	.14	.1	<.01	1.9	<.1	<.05	3	<.5	7.00
4671	.2	64.7	2.3	20	<.1	.7	2.4	325	.63	<.5	.6	<.5	1.3	104	<.1	.1	<.1	7	2.08	.034	7	3	.11	117	.001	2	.33	.022	.14	<.1	<.01	.6	<.1	<.05	1	<.5	8.30
4672	1.8	77.5	2.2	23	<.1	1.0	3.0	399	.82	<.5	.8	<.5	1.6	86	<.1	<.1	<.1	11	2.02	.038	8	3	.20	106	.001	1	.37	.020	.14	<.1	<.01	.7	<.1	<.05	2	<.5	7.90
4673	1.1	86.4	2.1	15	<.1	.7	2.2	294	.65	<.5	1.0	.5	2.0	85	<.1	.1	.1	10	1.59	.031	8	2	.14	82	.001	1	.33	.025	.14	<.1	<.01	.5	<.1	<.05	1	<.5	7.00
4674	.5	101.8	2.4	18	<.1	.8	2.5	265	.72	<.5	1.4	<.5	2.6	65	<.1	.1	.1	13	.93	.023	7	5	.18	70	.004	2	.38	.036	.10	<.1	<.01	.9	<.1	<.05	2	<.5	6.80
4675	.3	117.4	2.8	21	<.1	1.0	2.3	269	.78	<.5	1.0	2.0	2.1	64	<.1	.1	.1	18	.76	.026	5	4	.20	150	.027	2	.56	.053	.09	<.1	<.01	1.5	<.1	<.05	3	<.5	6.20
4676	.4	117.5	2.2	23	<.1	1.1	2.7	289	.87	.5	.9	1.2	2.0	77	<.1	.1	.1	21	.89	.027	5	4	.24	363	.034	1	.56	.040	.07	<.1	<.01	1.2	<.1	<.05	3	<.5	6.40
4677	.3	138.5	1.8	29	<.1	1.1	2.7	311	.92	<.5	1.2	.9	2.4	74	<.1	.1	.1	25	.64	.030	5	5	.25	184	.050	1	.57	.055	.08	<.1	<.01	1.9	<.1	<.05	3	<.5	6.70
4678	.9	143.5	1.9	26	<.1	.9	2.6	275	.78	.5	1.0	<.5	2.2	64	<.1	.1	.1	18	.85	.026	5	5	.20	171	.034	1	.42	.033	.08	<.1	<.01	1.1	<.1	.06	2	<.5	7.60
4679	.2	62.9	2.7	14	<.1	.3	1.2	230	.45	<.5	1.0	1.5	2.1	98	<.1	.1	<.1	5	1.59	.023	7	2	.10	86	.001	1	.34	.027	.15	<.1	<.01	.5	<.1	<.05	1	<.5	5.40
4680	.5	267.3	3.9	16	.1	.6	1.9	227	.56	<.5	1.0	1.2	2.5	112	<.1	.1	.2	7	1.43	.026	9	3	.12	88	.001	<1	.38	.032	.16	.1	<.01	.6	<.1	<.05	2	<.5	4.60
4681	.2	124.8	2.6	18	<.1	.9	2.1	266	.72	<.5	.8	.5	1.8	89	<.1	.1	.1	13	1.34	.026	6	3	.18	195	.005	1	.51	.042	.13	.1	<.01	1.2	.1	<.05	2	<.5	6.00
4765	3.1	17.7	2.0	14	<.1	1.0	2.1	238	.67	1.0	.4	<.5	2.0	66	<.1	.8	<.1	16	1.56	.027	5	4	.19	29	.004	1	.54	.025	.06	5.9	<.01	1.1	<.1	<.05	2	<.5	4.20
4766	.7	2.7	.9	15	<.1	2.2	2.4	183	.61	.5	.5	.7	1.0	83	<.1	.3	<.1	18	1.11	.046	3	4	.42	30	.041	1	.85	.044	.03	.1	.01	1.8	<.1	<.05	3	<.5	4.40
4767	.7	2.8	.8	20	<.1	2.2	3.5	254	.93	.6	.4	<.5	.7	73	<.1	.3	<.1	29	1.22	.057	4	5	.47	43	.040	<1	.80	.041	.03	.1	<.01	2.2	<.1	<.05	3	<.5	4.20
STANDARD DS7	20.2	106.3	68.5	389	1.0	55.4	9.7	633	2.41	48.2	4.8	67.2	4.5	74	6.5	5.9	4.4	84	.95	.083	14	241	1.04	372	.130	38	1.03	.100	.47	3.7	.20	2.6	4.0	.24	5	4.0	-

GROUP 1DX - 15.0 GM SAMPLE LEACHED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 300 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: DRILL CORE R150 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

12-20-06 P01:53 OUT

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

Data ___ FA ____ DATE RECEIVED: NOV 16 2006 DATE REPORT MAILED:.................

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm
G-1	.2	3.4	21.5	61	<.1	3.6	4.1	513	1.72	<.5	2.5	1.1	3.4	51	.2	.1	.1
4768	.9	2.2	.8	17	<.1	2.1	2.6	184	.54	.5	.6	<.5	1.7	82	<.1	.3	<.1
4769	.5	3.3	.8	19	<.1	3.0	5.2	345	1.17	.5	.6	<.5	1.7	94	<.1	.4	<.1
4770	9.9	1.5	2.0	14	<.1	2.2	3.9	228	1.04	.5	.7	1.0	1.2	146	<.1	.3	<.1
4771	.3	8.3	1.8	32	<.1	2.1	6.1	378	1.63	<.5	.5	<.5	.8	167	<.1	.1	<.1
4772	.5	1.9	2.0	24	<.1	1.8	4.2	396	1.27	.8	.4	<.5	.8	222	<.1	.4	<.1
4773	.7	1.5	2.6	29	<.1	1.8	5.3	637	1.38	1.1	.5	<.5	.8	237	<.1	.7	<.1
4774	.6	55.6	2.9	43	<.1	2.1	6.4	593	1.47	.7	.4	<.5	1.0	253	<.1	.3	<.1
4775	.4	5.1	2.3	34	<.1	1.8	5.5	395	1.42	.8	.3	<.5	1.0	120	<.1	.1	<.1
4776	.8	5.2	2.8	40	<.1	2.3	6.4	427	1.65	1.1	.3	<.5	1.0	132	.1	.2	<.1
4777	.3	10.0	2.4	32	<.1	1.8	5.3	440	1.33	1.0	.3	<.5	1.4	123	.1	.1	<.1
4778	.8	6.9	2.3	34	<.1	2.4	5.8	377	1.50	.9	.3	<.5	.7	106	<.1	.1	<.1
4779	.5	14.3	2.6	39	<.1	2.2	5.9	444	1.55	.8	.3	<.5	.7	155	.1	.2	<.1
4780	.5	13.9	1.9	30	<.1	1.6	5.3	554	1.23	.8	.3	<.5	.6	123	<.1	.1	<.1
4781	.4	5.7	2.8	41	<.1	2.3	6.9	553	1.60	1.1	.3	<.5	.6	175	.1	.1	<.1
4782	.7	45.1	2.3	34	<.1	1.6	5.2	576	1.38	.9	.3	<.5	.5	160	.1	.1	<.1
4783	.3	87.2	2.1	31	<.1	2.1	5.8	426	1.44	.5	.2	<.5	.7	146	<.1	.4	<.1
4784	.6	24.9	2.0	31	<.1	1.8	5.6	566	1.36	1.4	.3	<.5	.7	175	<.1	.2	<.1
4785	.3	17.6	2.1	32	<.1	1.9	5.3	519	1.39	1.6	.3	<.5	.8	144	<.1	.2	<.1
4786	.7	153.9	2.0	33	<.1	1.7	5.4	497	1.30	1.1	.4	<.5	1.2	174	<.1	.2	<.1
4787	.3	98.6	1.9	27	<.1	2.2	5.6	544	1.27	1.3	.4	<.5	1.0	172	<.1	.2	<.1
4788	.9	21.6	2.2	29	<.1	2.0	6.4	461	1.53	1.6	.4	<.5	.9	183	<.1	.5	<.1
4789	.9	16.9	2.7	24	<.1	1.6	5.3	699	1.31	2.7	.3	<.5	1.0	226	<.1	1.0	<.1
4790	1.0	3.3	1.7	4	<.1	<.1	.8	498	.37	1.9	.3	<.5	1.7	144	<.1	.6	<.1
4791	.9	17.9	1.6	7	<.1	.7	1.7	292	.57	2.7	.5	<.5	2.0	126	<.1	.7	<.1
4792	1.3	12.1	2.1	23	<.1	1.5	5.2	379	1.47	3.5	.4	<.5	1.1	176	<.1	.7	<.1
4793	1.2	73.4	2.1	27	<.1	2.5	6.1	442	1.58	3.3	.5	<.5	1.8	155	<.1	.9	<.1
RE 4793	1.3	69.0	2.1	27	<.1	2.2	6.1	427	1.55	3.4	.5	<.5	1.8	156	<.1	.9	<.1
RRE 4794	1.9	5.4	2.6	30	<.1	2.1	5.9	469	1.58	3.7	.4	<.5	.8	191	<.1	1.1	<.1
4794	1.7	5.8	2.4	30	<.1	2.2	6.1	495	1.64	3.7	.4	<.5	.9	206	<.1	1.0	<.1
4795	2.7	61.0	2.0	27	<.1	1.3	4.8	471	1.61	4.7	.3	<.5	.8	194	<.1	1.5	<.1
4796	2.1	7.4	2.0	31	<.1	1.9	6.2	487	1.65	3.7	.3	<.5	1.0	192	<.1	.6	<.1
4797	1.2	51.4	1.8	22	<.1	1.6	4.7	722	1.25	2.9	.4	<.5	.9	235	<.1	.7	<.1
4798	1.3	63.5	2.4	31	<.1	2.1	5.7	551	1.66	3.4	.5	<.5	1.3	190	<.1	1.2	<.1
4799	.8	52.9	1.9	26	<.1	1.9	5.2	428	1.50	2.2	.3	<.5	1.2	132	<.1	.4	<.1
STANDARD DS7	21.6	109.9	68.5	408	.9	58.5	10.5	647	2.48	48.6	5.0	63.7	4.6	82	6.4	6.1	4.5

SAMPLE#	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample kg
G-1	38	.47	.078	6	8	.53	184	.111	<1	.87	.056	.45	.1	<.01	1.8	.3	<.05	5	<.5	-
4768	14	1.01	.058	4	6	.45	31	.036	<1	.79	.047	.01	.1	<.01	1.5	<.1	<.05	3	<.5	6.3
4769	35	1.70	.074	6	4	.67	71	.052	<1	.87	.025	.05	.1	<.01	2.2	<.1	<.05	3	<.5	8.8
4770	32	2.04	.059	6	7	.57	69	.033	1	1.34	.040	.04	1.2	<.01	2.3	<.1	<.05	5	<.5	4.4
4771	33	3.03	.071	7	3	.32	156	.002	1	.67	.028	.08	.1	<.01	2.2	<.1	<.05	3	<.5	3.2
4772	30	3.36	.072	8	4	.31	105	.001	<1	.72	.029	.06	.1	<.01	2.2	<.1	<.05	3	<.5	5.4
4773	31	3.76	.069	7	2	.38	60	.001	<1	.66	.026	.06	.2	.01	2.3	<.1	<.05	2	<.5	5.7
4774	27	2.63	.065	6	2	.40	71	.001	1	.69	.025	.08	.1	.01	2.0	<.1	<.05	2	<.5	3.1
4775	31	1.98	.065	6	3	.39	70	.001	1	.47	.031	.08	.1	.01	2.2	<.1	<.05	2	<.5	6.3
4776	36	2.36	.070	7	6	.39	59	.002	1	.56	.041	.10	<.1	.01	2.4	<.1	<.05	2	<.5	6.5
4777	24	2.27	.057	7	4	.39	62	.001	1	.46	.030	.10	<.1	.01	1.8	<.1	<.05	2	<.5	6.3
4778	31	1.78	.061	6	5	.41	76	.002	1	.51	.040	.09	.1	<.01	2.1	<.1	<.05	2	<.5	6.3
4779	33	2.32	.067	7	4	.42	136	.001	1	.54	.035	.10	.1	.01	2.1	<.1	<.05	2	<.5	5.3
4780	20	2.57	.066	6	3	.43	59	.001	1	.41	.031	.11	<.1	.01	1.6	<.1	<.05	1	<.5	6.7
4781	28	3.28	.064	5	3	.67	63	.001	1	.51	.031	.09	<.1	.01	2.1	<.1	<.05	2	<.5	6.4
4782	23	3.34	.063	5	3	.53	58	.001	1	.46	.025	.10	.1	.01	1.9	<.1	<.05	1	<.5	5.5
4783	25	2.11	.070	6	3	.38	74	.001	<1	.56	.038	.08	.1	<.01	2.1	<.1	<.05	2	<.5	2.1
4784	22	2.88	.069	6	4	.50	73	.001	<1	.56	.031	.10	.1	<.01	1.7	<.1	<.05	2	<.5	6.9
4785	26	2.83	.068	7	3	.38	66	.002	1	.50	.033	.11	.1	.01	1.8	<.1	<.05	1	<.5	6.9
4786	26	2.49	.063	6	4	.37	95	.001	1	.52	.035	.09	.1	.01	1.9	<.1	<.05	2	<.5	3.6
4787	19	2.77	.065	7	3	.38	65	.001	1	.51	.032	.13	.1	<.01	1.5	<.1	<.05	1	<.5	3.6
4788	31	2.37	.070	6	4	.41	69	.001	1	.57	.041	.08	.1	.01	2.6	<.1	<.05	2	<.5	6.3
4789	29	3.50	.052	5	2	.45	73	.002	1	.56	.026	.10	.1	.01	2.4	<.1	<.05	2	<.5	6.9
4790	7	3.93	.010	3	4	.08	55	<.001	1	.29	.016	.11	.1	.02	1.0	<.1	<.05	1	<.5	7.6
4791	14	2.06	.021	4	2	.15	57	.001	1	.36	.036	.05	.1	.01	1.3	<.1	<.05	1	<.5	6.3
4792	43	2.22	.055	6	4	.42	62	.001	3	.54	.039	.09	.1	<.01	3.3	<.1	<.05	2	<.5	5.6
4793	45	2.34	.048	6	3	.55	64	.005	2	.66	.035	.06	.1	.01	3.7	<.1	<.05	3	<.5	7.0
RE 4793	44	2.24	.048	6	3	.52	66	.006	2	.64	.034	.06	.1	.01	3.5	<.1	<.05	3	<.5	-
RRE 4794	48	2.82	.050	5	3	.57	43	.002	3	.49	.039	.06	.1	<.01	3.2	<.1	<.05	2	<.5	-
4794	47	3.03	.055	6	2	.62	45	.002	2	.49	.038	.06	.1	.01	3.4	<.1	<.05	2	<.5	6.0
4795	43	2.68	.040	4	3	.33	60	.002	2	.58	.030	.08	.2	.01	3.2	<.1	<.05	2	<.5	8.0
4796	47	2.73	.043	5	2	.75	48	.001	2	.44	.037	.06	.1	.01	3.7	<.1	<.05	2	<.5	6.1
4797	25	4.60	.051	5	3	.20	105	.001	2	.62	.026	.12	.2	.01	2.5	<.1	<.05	2	<.5	7.0
4798	47	3.28	.049	6	2	.63	54	.002	2	.51	.033	.08	.2	.01	3.5	.1	<.05	2	<.5	6.5
4799	41	1.74	.056	6	4	.41	87	.011	1	.59	.037	.07	.1	<.01	2.8	<.1	<.05	2	<.5	6.8
STANDARD DS7	86	.97	.086	15	281	1.06	387	.128	39	1.08	.107	.47	3.8	.20	2.7	4.3	.18	6	3.3	-

Sample type: DRILL CORE R150. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___

ACME ANALYTICAL

Happy Creek Minerals Ltd. PROJECT RATERIA FILE # A608752

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample kg
G-1	.2	2.2	2.7	46	<.1	3.6	4.0	526	1.81	<.5	2.5	2.2	3.8	50	<.1	<.1	.1	36	.49	.076	7	8	.56	191	.114	1	.93	.059	.47	.1	<.01	1.9	.3	<.05	5	<.5	-
4800	.7	8.1	2.1	28	<.1	2.2	5.2	372	1.59	2.9	.3	.9	1.0	140	<.1	.5	<.1	37	1.94	.056	6	4	.35	104	.004	2	.66	.047	.07	.1	<.01	2.8	<.1	<.05	3	<.5	5.3
4801	.7	40.2	2.4	17	<.1	.5	2.0	474	.73	1.6	1.1	.8	1.9	187	<.1	.3	<.1	16	2.77	.026	6	2	.11	115	.001	2	.47	.032	.13	.1	.01	1.1	<.1	<.05	1	<.5	9.2
4802	1.8	38.0	3.1	6	<.1	<.1	.4	208	.22	<.5	1.2	.9	2.9	87	<.1	.1	<.1	1	1.52	.008	6	4	.03	49	<.001	2	.25	.036	.16	.1	.02	.2	<.1	<.05	1	<.5	3.9
4803	.8	76.7	1.7	4	<.1	.1	.4	253	.21	.6	1.1	1.1	3.0	91	.1	.1	<.1	1	1.67	.012	7	3	.03	51	<.001	3	.26	.028	.16	.1	.01	.3	<.1	<.05	1	<.5	5.6
4804	.9	46.0	2.9	9	<.1	<.1	1.2	382	.47	.6	1.3	<.5	2.3	251	.1	.2	<.1	5	2.43	.023	9	2	.13	93	<.001	1	.60	.030	.17	.1	<.01	.5	<.1	<.05	1	<.5	7.5
4805	.2	31.5	2.1	23	<.1	.7	3.6	449	.90	<.5	.6	.7	1.2	267	<.1	.1	<.1	13	2.40	.046	8	2	.35	122	.001	1	.78	.039	.15	<.1	<.01	.9	<.1	<.05	2	<.5	6.2
4806	.5	34.2	3.3	33	<.1	1.2	4.7	541	1.37	<.5	.6	1.5	1.2	339	<.1	.1	<.1	30	2.35	.050	8	4	.50	153	.009	1	1.20	.063	.14	<.1	<.01	2.3	.1	<.05	4	<.5	2.8
4807(rock)	1.0	127.7	3.2	37	<.1	12.2	9.3	230	2.43	1.6	2.2	.7	6.3	25	<.1	.2	<.1	99	.81	.067	9	18	.65	86	.195	4	1.00	.065	.35	.2	<.01	1.4	.1	<.05	6	<.5	.6
4808(pulp)	668.9	7418.1	125.6	67	76.7	5.4	1.7	233	.87	60.4	1.0	24.5	.7	141	1.0	143.0	6.3	8	1.05	.038	4	239	.10	133	.006	1	.34	.021	.17	.1	.41	.5	.1	.78	2	1.4	-
STANDARD DS7	20.4	104.7	67.9	400	.8	55.5	9.6	637	2.43	47.9	4.9	79.5	4.6	75	6.3	5.9	4.4	84	.97	.080	15	254	1.05	370	.131	39	1.03	.101	.46	3.8	.19	2.6	4.0	.20	5	3.7	-

Sample type: DRILL CORE R150.

Data ___ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9001 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Happy Creek Minerals Ltd. PROJECT RATERIA File # A608608 Page 1

2304 - 1066 W. Hastings S, Vancouver BC V6E 3A2 Submitted by: David Blann

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample kg
G-1	.1	1.6	2.4	41	<.1	3.2	3.4	508	1.72	<.5	2.5	3.4	3.6	45	<.1	<.1	.1	31	.55	.082	5	6	.58	177	.102	1	.88	.048	.43	.1	.01	1.6	.3	<.05	5	<.5	-
4282	.4	68.1	1.7	55	<.1	7.4	10.8	951	2.31	<.5	.7	1.7	1.8	117	<.1	.2	.1	53	3.56	.077	11	6	1.15	67	.003	2	1.35	.041	.16	.1	<.01	3.5	<.1	<.05	6	<.5	2.86
4283	.7	195.4	2.3	47	<.1	8.1	9.8	1030	2.15	1.9	1.1	1.4	2.0	310	<.1	.4	.5	51	5.34	.100	18	5	1.23	117	.002	2	1.51	.042	.09	.3	.01	3.6	<.1	.06	6	<.5	4.12
4284	.5	30.6	1.7	48	<.1	7.0	9.6	603	2.52	1.4	.8	2.4	1.7	144	<.1	.1	<.1	76	1.56	.076	8	7	1.35	115	.061	2	1.70	.100	.11	.1	<.01	5.5	<.1	<.05	8	<.5	3.96
4285	.3	26.7	1.4	44	<.1	7.9	9.7	639	2.27	1.0	.6	1.9	1.9	320	<.1	.1	<.1	57	3.01	.067	11	6	1.23	143	.003	<1	1.48	.046	.06	.2	<.01	3.3	<.1	<.05	7	<.5	7.75
4286	.1	150.0	1.6	47	<.1	6.8	9.8	598	2.38	.9	.6	3.2	1.9	246	<.1	.1	.1	62	2.57	.070	9	5	1.19	125	.005	1	1.68	.057	.08	.1	<.01	3.7	<.1	<.05	7	<.5	4.93
4287	.5	91.7	1.3	42	<.1	7.5	9.3	449	2.25	.8	.8	1.9	1.5	138	<.1	.1	<.1	71	1.57	.076	7	6	.94	157	.071	1	1.27	.052	.12	.2	<.01	3.3	<.1	<.05	7	<.5	4.62
4288	.3	627.9	1.5	35	.3	5.9	8.3	372	2.28	<.5	1.2	15.0	1.9	97	<.1	.1	.2	79	1.28	.084	6	7	.77	128	.117	<1	1.14	.084	.16	.1	.01	3.0	<.1	<.05	5	.5	2.68
4289	.4	140.1	1.6	36	<.1	6.8	8.3	508	1.78	.6	.7	1.8	2.3	268	<.1	.1	.1	52	3.39	.076	10	6	.70	217	.015	1	1.59	.057	.13	.1	<.01	3.0	<.1	<.05	6	<.5	6.95
4290	.2	99.7	1.6	40	<.1	8.7	10.7	505	2.35	.5	.6	2.8	2.2	94	<.1	.1	<.1	63	2.25	.068	7	8	.86	136	.016	1	1.13	.056	.16	.1	<.01	4.1	<.1	<.05	5	<.5	4.98
4291	.5	83.7	2.2	43	.5	10.6	10.0	543	2.15	.8	.6	2.5	1.7	158	<.1	.3	<.1	56	2.80	.073	9	8	.79	134	.010	1	1.00	.032	.10	1.0	.01	3.9	<.1	<.05	5	<.5	7.02
4292	.4	202.6	2.0	49	.2	7.9	11.5	715	2.38	1.4	.5	.8	1.6	125	<.1	.1	.1	51	4.22	.059	7	5	1.47	121	.003	1	.68	.039	.10	.2	.01	4.2	<.1	<.05	2	<.5	2.44
4293	.6	368.4	2.4	43	.2	5.6	9.0	772	2.23	.9	.7	1.3	1.6	123	<.1	.2	.2	45	4.84	.099	9	6	.38	78	.001	1	.58	.023	.15	1.0	<.01	3.0	<.1	.06	3	<.5	6.35
4294	.3	68.1	1.4	31	<.1	5.7	8.3	411	1.96	2.5	.8	.8	1.9	136	<.1	.1	.1	57	1.97	.062	7	5	.69	153	.022	2	.66	.060	.10	.2	.02	3.5	.1	<.05	3	<.5	4.07
4295	2.3	252.9	1.8	41	.1	6.9	9.6	465	1.91	3.1	.8	1.7	2.1	144	<.1	.1	.1	62	2.51	.064	7	7	.91	80	.011	1	.52	.039	.08	.7	.02	6.5	.1	<.05	3	<.5	6.83
4296	18.1	1065.8	2.5	50	.7	6.3	9.3	397	1.97	2.9	2.3	3.2	2.6	140	<.1	.1	.1	59	2.08	.064	7	5	.77	135	.012	1	.62	.049	.11	.2	.03	4.4	<.1	.06	3	<.5	5.88
4297	1.1	509.6	1.6	34	.3	5.9	8.6	389	1.87	6.9	1.4	2.9	2.6	159	<.1	.1	.2	55	1.52	.061	6	7	.63	319	.032	1	.63	.038	.12	1.0	.06	3.2	<.1	.06	3	<.5	5.47
4298	.4	302.7	1.6	44	.1	4.3	8.9	510	2.27	2.1	.7	.5	2.1	130	<.1	.4	.1	57	2.02	.075	8	3	.79	74	.002	1	.68	.056	.09	.4	.01	5.1	<.1	<.05	2	<.5	4.05
4299	.7	276.5	1.9	42	.1	6.5	8.6	748	1.77	1.4	.8	1.6	1.9	164	<.1	.3	.1	28	3.65	.069	8	5	.91	74	.001	2	.56	.031	.11	1.1	.01	2.8	<.1	<.05	2	.5	6.08
4300 (rock)	.7	95.7	3.0	33	<.1	11.5	8.8	217	2.22	1.4	2.1	<.5	6.3	22	.1	.1	<.1	91	.84	.068	8	18	.59	64	.186	3	1.03	.049	.25	.1	<.01	1.3	<.1	<.05	5	<.5	.78
4301 (pulp)	327.0	1770.7	131.6	157	32.1	84.6	41.1	819	5.93	283.6	1.8	5916.4	3.3	106	1.4	75.1	181.5	41	8.09	.089	12	58	.37	41	.123	23	1.32	.033	.18	35.9	11.67	3.5	.2	2.61	6	2.1	-
4302	2.9	28.9	1.7	39	<.1	7.8	10.0	536	2.04	3.4	.7	.8	2.1	133	<.1	.2	.1	65	2.86	.053	6	9	1.00	59	.013	1	.46	.039	.08	1.2	.01	6.2	.1	<.05	2	<.5	7.49
4303	1.4	21.2	1.6	36	<.1	8.7	10.3	470	2.07	3.8	.9	.5	2.6	150	<.1	.1	<.1	61	2.47	.058	6	6	.93	126	.017	2	.56	.052	.11	.1	.02	5.5	<.1	<.05	2	<.5	5.56
4304	2.2	83.4	2.1	53	<.1	8.5	12.9	868	2.33	1.9	.7	.7	1.9	207	<.1	.4	<.1	62	5.12	.040	6	5	1.76	74	.008	<1	.49	.038	.07	.9	.03	5.3	<.1	<.05	2	<.5	6.54
4305	2.0	18.3	2.4	50	<.1	6.4	10.2	778	2.08	2.7	.6	.7	2.0	202	<.1	.3	<.1	67	4.39	.041	6	3	1.39	53	.004	2	.52	.043	.05	.1	.03	6.1	<.1	<.05	2	<.5	7.39
4306	2.5	24.7	1.9	45	<.1	7.6	10.9	576	2.05	2.9	.6	.5	2.2	176	<.1	.4	<.1	58	2.86	.059	6	7	1.06	70	.009	<1	.52	.042	.08	1.2	.01	5.3	<.1	<.05	2	<.5	5.53
4307	1.5	28.8	3.4	58	<.1	6.6	9.2	498	1.92	2.9	.6	<.5	1.7	148	<.1	.2	<.1	54	2.53	.054	6	4	1.07	148	.015	1	.51	.048	.09	.2	.01	4.5	<.1	<.05	2	<.5	5.68
4308	167.3	91.0	1.6	33	<.1	6.1	8.1	499	1.69	2.5	.4	.7	1.1	138	<.1	.8	.3	53	3.26	.038	4	7	1.17	39	.002	1	.33	.032	.03	5.3	.03	5.0	<.1	<.05	1	<.5	1.85
4309	1.5	12.1	1.3	29	<.1	4.2	7.7	412	1.83	4.4	.6	<.5	1.2	156	<.1	.4	.1	52	2.22	.059	5	4	.74	64	.003	1	.48	.058	.05	.1	.01	4.5	<.1	<.05	2	<.5	4.78
4310	3.1	158.7	2.3	58	<.1	5.5	11.8	791	2.53	3.4	.5	.7	1.4	168	<.1	.6	<.1	69	3.22	.089	8	5	.96	57	.007	1	.40	.034	.08	1.1	.01	6.6	<.1	<.05	2	<.5	6.38
RE 4310	3.3	159.8	2.2	57	<.1	5.1	11.5	782	2.52	3.6	.5	.7	1.3	173	<.1	.6	<.1	69	3.16	.083	7	5	.95	57	.007	2	.41	.031	.08	1.1	<.01	6.5	<.1	<.05	2	<.5	-
RRE 4310	2.3	142.2	2.6	59	<.1	5.0	12.2	797	2.69	3.9	.5	.8	1.4	180	<.1	.8	<.1	72	3.25	.092	8	4	.98	61	.008	2	.44	.037	.09	.3	<.01	6.7	<.1	<.05	2	<.5	-
4311	1.5	257.1	2.2	36	<.1	3.1	7.5	468	1.72	2.4	.5	1.1	1.6	129	<.1	.8	.1	44	1.88	.071	7	7	.61	120	.006	3	.64	.056	.08	1.0	<.01	3.1	<.1	<.05	3	<.5	6.11
4312	2.6	50.0	2.8	27	<.1	2.0	5.1	343	1.41	4.6	.5	<.5	1.7	102	<.1	2.6	<.1	39	1.47	.064	6	3	.34	66	.002	2	.37	.037	.09	.3	.01	3.5	<.1	<.05	2	<.5	4.75
4313	1.0	17.3	1.5	31	<.1	3.7	7.8	407	1.97	2.7	.7	<.5	1.6	133	<.1	.7	<.1	53	1.66	.058	6	6	.65	135	.033	2	.60	.049	.11	.9	.01	3.5	<.1	<.05	3	<.5	6.58
STANDARD DS7	20.2	108.7	67.9	406	.8	56.6	9.6	637	2.43	49.1	4.7	58.3	4.3	72	6.3	5.9	4.4	85	.95	.081	12	239	1.05	380	.123	38	1.02	.087	.46	3.8	.20	2.4	4.0	.21	5	3.6	-

GROUP 1DX - 15.0 GM SAMPLE LEACHED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 300 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: DRILL CORE R150 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ **FA** ___ **DATE RECEIVED:** NOV 8 2006 **DATE REPORT MAILED:** 12-20-06 A11:04 OUT

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample kg
G-1	.2	2.0	2.9	47	<.1	3.6	4.4	551	2.00	<.5	2.2	.5	3.6	62	<.1	<.1	.1	42	.59	.085	7	8	.59	208	.127	1	.99	.086	.49	.1	<.01	2.1	.3	<.05	5	<.5	-
4314	2.5	52.3	1.8	28	<.1	4.6	7.4	439	1.83	4.0	.6	.8	2.3	118	<.1	.8	.1	52	2.27	.052	7	4	.69	56	.005	2	.47	.042	.08	.3	.01	4.7	<.1	<.05	2	<.5	5.81
4315	1.3	87.2	4.3	66	<.1	7.3	10.2	668	1.88	.8	.5	<.5	1.7	135	<.1	.1	<.1	42	3.38	.056	6	7	.93	65	.001	2	.55	.036	.12	.9	.01	3.7	<.1	<.05	2	<.5	5.98
4316	.7	11.6	1.8	48	<.1	6.9	9.8	674	1.73	.6	.5	.6	1.9	136	<.1	.1	<.1	32	3.98	.055	6	4	1.01	62	.001	1	.37	.031	.12	.2	.02	2.7	<.1	<.05	1	<.5	6.33
4317	1.1	13.2	2.5	38	<.1	8.8	10.8	483	2.17	2.3	.8	<.5	2.3	142	<.1	.3	<.1	51	3.47	.059	7	8	1.06	62	.002	3	.61	.047	.10	.9	.01	4.1	<.1	<.05	2	<.5	2.29
4318	.7	22.3	2.9	40	<.1	7.4	9.5	477	1.95	2.0	.5	<.5	1.6	107	<.1	.2	<.1	52	3.23	.036	5	5	1.12	37	.002	2	.35	.036	.08	.1	<.01	4.6	<.1	<.05	1	<.5	2.26
4319	.5	10.7	1.8	49	<.1	8.3	12.4	498	2.17	2.5	1.2	<.5	2.3	142	<.1	.2	<.1	53	2.54	.065	7	8	.90	58	.035	1	1.25	.043	.07	.6	.01	3.8	<.1	<.05	6	<.5	.96
4320	.3	62.0	1.8	47	<.1	8.0	10.6	449	2.10	1.1	1.8	.9	1.9	158	<.1	.2	<.1	58	1.86	.068	6	5	1.10	65	.062	3	1.41	.045	.08	.1	.02	3.3	<.1	<.05	7	<.5	6.53
4321	.6	11.7	2.8	47	<.1	8.0	10.1	485	1.90	1.3	1.0	<.5	2.0	212	<.1	.3	<.1	54	2.27	.063	6	8	1.00	58	.075	3	1.50	.047	.08	1.2	<.01	3.5	<.1	<.05	7	<.5	6.68
4322	.3	7.2	4.2	28	<.1	.9	3.1	556	1.01	<.5	1.0	<.5	1.9	126	.1	.1	<.1	15	2.35	.038	7	5	.22	2107	.004	1	.37	.029	.16	<.1	<.01	.9	<.1	.07	2	<.5	8.27
4323	.6	47.1	2.1	5	<.1	.8	.7	369	.32	1.1	1.0	<.5	2.7	86	<.1	.1	<.1	2	1.94	.013	6	9	.07	208	<.001	2	.23	.022	.17	2.0	<.01	.3	<.1	<.05	1	<.5	1.96
4324	.2	11.4	2.7	25	<.1	.7	3.1	540	1.13	.8	.7	<.5	1.7	101	<.1	.1	<.1	17	1.95	.045	7	5	.21	368	.003	3	.36	.031	.16	<.1	<.01	1.3	<.1	<.05	2	<.5	4.58
4325	.4	14.3	1.8	30	<.1	1.9	3.8	434	1.36	.8	1.1	<.5	2.0	84	<.1	.1	<.1	31	1.10	.040	6	10	.34	249	.042	2	.52	.050	.13	.9	<.01	1.4	<.1	<.05	3	<.5	7.13
4326	.1	8.8	2.5	13	<.1	.3	1.9	420	.75	<.5	1.6	<.5	2.3	97	<.1	.2	<.1	11	1.81	.033	6	6	.13	385	.004	2	.29	.026	.16	<.1	<.01	.6	<.1	<.05	1	<.5	6.47
4327	.4	6.3	2.2	32	<.1	1.9	4.0	396	1.26	1.3	.5	1.3	1.2	152	<.1	.2	<.1	28	1.24	.051	6	9	.31	392	.014	3	.52	.047	.12	.9	<.01	1.9	.1	<.05	3	<.5	5.18
4328	.1	15.2	1.8	33	<.1	1.6	4.5	406	1.38	.9	.6	.6	1.5	112	<.1	.2	<.1	30	1.19	.054	6	5	.36	227	.021	1	.52	.039	.10	<.1	<.01	1.8	<.1	<.05	3	<.5	5.76
4329	.5	12.2	2.3	33	<.1	2.2	4.3	377	1.34	.8	.6	<.5	1.2	100	<.1	.2	<.1	32	.97	.047	5	9	.36	227	.045	1	.60	.047	.10	1.2	<.01	1.3	<.1	<.05	3	<.5	6.72
4330	.1	9.5	2.3	22	<.1	.7	2.7	375	1.00	.5	.5	<.5	1.1	168	.1	.1	<.1	15	1.87	.052	6	3	.14	250	.001	2	.35	.021	.17	<.1	<.01	1.5	<.1	<.05	1	<.5	1.48
RE 4330	.2	9.8	2.3	21	<.1	.5	3.0	387	1.03	.5	.5	<.5	1.0	166	<.1	.1	<.1	15	1.92	.053	6	2	.15	255	.001	1	.37	.022	.17	<.1	<.01	1.5	<.1	<.05	1	<.5	-
RRE 4330	.6	11.1	2.9	23	<.1	1.2	3.2	401	.99	.7	.6	<.5	1.2	193	<.1	.1	<.1	16	1.97	.057	6	6	.15	277	.001	3	.38	.021	.18	1.2	<.01	1.7	<.1	<.05	1	<.5	-
4331	.1	5.5	2.9	26	<.1	.8	3.5	438	1.15	.8	.4	<.5	1.1	127	<.1	.3	<.1	18	1.78	.053	7	5	.17	307	.001	3	.39	.035	.20	.1	<.01	1.6	<.1	<.05	2	<.5	4.91
4332	.5	42.3	2.0	33	<.1	1.8	4.0	374	1.31	1.0	.7	<.5	1.1	245	<.1	.2	<.1	29	1.07	.053	5	7	.33	489	.018	2	.56	.035	.08	1.1	<.01	1.3	<.1	<.05	3	<.5	3.15
4584	.2	114.7	2.6	35	<.1	1.4	4.5	526	1.39	.5	.8	.5	1.8	122	<.1	.1	.1	31	1.69	.044	6	6	.38	145	.031	2	.96	.056	.12	<.1	<.01	2.3	<.1	<.05	4	<.5	6.85
4585	.7	152.3	1.7	34	.2	2.1	4.1	682	1.23	<.5	.7	1.2	1.6	62	<.1	.1	.1	26	1.46	.044	5	9	.34	84	.018	2	.62	.035	.11	1.4	<.01	1.3	<.1	<.05	3	<.5	7.32
4586	1.5	195.0	2.0	23	.1	1.1	3.9	471	1.07	<.5	.7	<.5	1.9	88	<.1	.1	.1	18	1.90	.045	7	6	.28	101	.015	2	.70	.042	.19	<.1	<.01	1.4	<.1	<.05	3	<.5	5.41
4587	.7	213.5	3.7	25	.2	1.3	3.4	426	.76	.5	.5	<.5	1.4	200	<.1	.1	.1	10	2.71	.041	7	6	.25	248	.005	1	.97	.035	.16	1.5	<.01	.9	<.1	<.05	3	<.5	5.56
4588	.2	148.5	1.8	35	.1	1.6	4.2	448	1.39	<.5	.7	<.5	1.7	88	<.1	.1	.1	31	1.23	.043	6	7	.34	194	.032	2	.72	.054	.11	<.1	<.01	1.6	<.1	<.05	4	<.5	6.38
4589	.6	169.8	1.4	32	.2	2.2	4.6	461	1.44	<.5	.9	<.5	1.8	54	<.1	.1	.1	33	.76	.050	5	9	.37	727	.052	1	.62	.044	.08	1.5	<.01	1.2	.1	<.05	3	<.5	5.85
4590	.2	102.2	1.7	27	<.1	1.6	4.0	359	1.44	<.5	.7	<.5	1.6	73	<.1	.2	<.1	39	.85	.048	5	9	.35	453	.081	1	.80	.065	.08	.1	<.01	1.5	<.1	<.05	4	<.5	7.55
4591	.6	37.0	2.0	30	<.1	2.0	4.4	399	1.33	<.5	.8	<.5	1.5	88	<.1	.1	<.1	36	1.12	.044	5	8	.37	130	.067	1	.89	.048	.09	1.2	<.01	1.9	<.1	<.05	4	<.5	3.22
4592	.1	52.5	1.7	29	<.1	1.7	4.4	401	1.47	<.5	.8	<.5	1.6	69	<.1	.1	<.1	39	.93	.048	5	8	.37	135	.070	1	.81	.066	.09	<.1	<.01	1.7	<.1	<.05	4	<.5	6.95
4593	1.1	523.5	1.5	28	.3	1.9	4.4	981	1.12	<.5	.5	<.5	1.2	42	<.1	.7	.1	18	2.14	.053	7	7	.26	89	.001	1	.44	.022	.14	1.4	<.01	1.1	<.1	<.05	2	<.5	5.68
4594	.5	492.0	1.8	30	.3	1.1	4.6	719	1.46	<.5	.6	<.5	1.9	47	<.1	.1	<.1	22	1.96	.052	8	6	.29	134	.002	1	.57	.034	.18	<.1	.01	1.2	<.1	<.05	2	<.5	5.25
4595	.6	1328.9	3.2	29	.8	1.7	4.3	906	1.17	<.5	.5	<.5	1.4	40	<.1	.2	<.1	17	2.18	.051	8	8	.25	178	.002	1	.50	.021	.19	1.2	.01	1.0	<.1	<.05	2	<.5	5.73
4596	.1	201.9	1.6	34	.1	1.5	4.8	655	1.40	<.5	.6	<.5	1.4	54	<.1	.2	<.1	32	1.23	.054	6	8	.39	266	.020	<1	.59	.049	.14	<.1	<.01	1.5	<.1	<.05	3	<.5	6.26
STANDARD DS7	21.7	107.9	67.7	417	.9	57.8	10.0	641	2.45	50.2	4.9	58.8	4.5	78	6.4	5.8	4.5	86	.97	.083	13	275	1.06	389	.130	39	1.04	.099	.46	3.9	.20	2.4	4.2	.20	5	3.5	-

Sample type: DRILL CORE R150. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample kg
G-1	.3	5.7	3.5	41	<.1	5.9	4.1	540	1.91	<.5	2.4	4.3	3.5	58	<.1	<.1	.1	37	.51	.074	7	11	.57	199	.120	<1	.95	.081	.47	.1	.01	1.8	.3	<.05	5	<.5	-
4597	.3	626.1	2.0	29	.4	2.5	4.7	642	1.27	.6	.5	3.0	1.4	54	<.1	.2	<.1	24	1.72	.050	7	5	.31	349	.008	1	.52	.036	.16	<.1	.01	1.4	<.1	<.05	3	<.5	6.38
4598	.5	451.7	2.0	27	.3	2.5	4.2	766	1.17	.5	.6	1.0	1.5	58	<.1	.1	<.1	20	2.07	.052	7	4	.28	237	.002	<1	.39	.031	.15	<.1	.01	1.4	<.1	<.05	2	<.5	6.41
4599	.5	511.8	1.9	25	.3	1.7	4.4	822	1.15	<.5	.7	.9	1.5	68	<.1	.2	.1	18	2.45	.054	8	5	.20	203	.001	<1	.36	.032	.20	.1	<.01	1.2	.1	<.05	1	<.5	7.38
4600	.6	396.7	2.4	35	.3	1.9	4.7	1004	1.23	<.5	.5	.9	1.1	63	.1	.1	<.1	17	2.51	.054	8	4	.32	126	.001	1	.55	.027	.18	<.1	.02	1.0	<.1	<.05	2	<.5	4.11
4601	.4	648.0	2.0	29	.6	1.4	4.7	802	1.10	.8	.9	1.5	1.5	65	.1	.1	<.1	16	2.22	.055	8	4	.20	191	.001	<1	.39	.024	.17	<.1	<.01	1.2	<.1	<.05	1	<.5	5.82
4602	1.6	3799.5	2.6	39	2.3	2.2	6.5	888	1.19	<.5	.5	1.2	1.3	74	.1	.2	.2	7	2.17	.062	6	3	.34	850	.002	1	.61	.024	.20	.3	.01	.6	<.1	.11	2	<.5	2.19
4603	.3	378.7	2.0	36	.4	1.9	4.7	607	1.17	<.5	.7	<.5	1.5	69	.1	.2	<.1	18	1.73	.049	5	4	.38	296	.010	1	.60	.031	.14	.1	.01	1.0	<.1	<.05	3	<.5	4.95
4604 (pulp)	323.3	1719.8	118.7	144	31.5	76.0	37.4	811	5.86	274.7	1.8	5672.9	3.3	105	1.5	72.9	186.6	40	7.81	.088	12	56	.36	28	.120	23	1.35	.032	.17	35.0	11.75	3.4	.2	2.55	6	2.0	-
4605 (rock)	.9	124.1	3.5	31	<.1	11.2	9.0	227	2.42	1.5	1.9	2.8	6.1	20	<.1	.2	.1	100	.74	.065	8	18	.60	85	.182	2	.90	.060	.32	.2	.01	1.1	<.1	<.05	5	<.5	.75
4606	.3	828.4	2.2	38	1.1	1.6	4.3	571	1.19	.6	.6	.7	2.0	62	.1	.2	.1	21	1.50	.052	5	5	.32	298	.011	1	.58	.031	.17	<.1	.01	1.3	<.1	<.05	3	<.5	5.98
4607	.2	1587.8	2.5	35	2.1	1.3	3.8	659	1.04	<.5	.9	.8	2.4	59	<.1	.1	.1	19	1.67	.049	6	3	.29	226	.009	1	.48	.019	.16	<.1	.01	1.3	<.1	<.05	2	<.5	7.35
RE 4607	.2	1591.7	2.5	35	2.2	1.1	3.8	656	1.03	<.5	.9	.9	2.4	58	.1	.2	.1	18	1.66	.049	6	3	.29	236	.009	1	.47	.021	.16	.1	.02	1.4	<.1	<.05	2	<.5	-
RRE 4607	.4	1450.5	2.5	36	2.0	1.5	4.2	666	1.17	<.5	.9	1.0	2.4	61	.1	.2	.2	20	1.71	.053	7	5	.31	292	.010	2	.54	.026	.19	.1	.02	1.3	<.1	<.05	2	<.5	-
4608	.5	433.3	3.4	46	.4	1.6	5.2	773	1.32	<.5	.6	1.6	1.2	78	.1	.2	<.1	24	2.25	.056	6	5	.37	443	.006	<1	.61	.031	.17	<.1	.01	1.4	<.1	<.05	3	<.5	5.87
4609	.2	30.4	3.0	41	<.1	2.2	4.5	636	1.22	<.5	.8	.5	1.6	69	<.1	.3	<.1	22	1.87	.053	6	4	.33	442	.016	2	.54	.026	.17	<.1	<.01	1.4	<.1	<.05	2	<.5	6.82
4610	.5	3698.6	2.3	30	3.8	1.4	4.4	874	1.05	<.5	1.0	.5	2.6	56	.1	.1	.1	14	2.01	.041	7	5	.24	181	.004	<1	.48	.022	.18	.1	.10	1.0	<.1	.09	2	<.5	5.89
4611	.4	1074.2	1.9	34	1.0	1.3	4.1	662	1.13	<.5	.8	.7	2.2	58	.1	.2	.1	20	1.61	.045	7	5	.28	220	.013	2	.52	.026	.21	<.1	.03	1.2	<.1	<.05	2	<.5	4.01
4612	.3	200.4	2.2	37	.2	2.3	4.8	509	1.42	<.5	.8	.9	1.6	58	<.1	.2	<.1	33	1.09	.050	5	5	.41	190	.058	<1	.62	.039	.12	.1	.01	1.8	<.1	<.05	3	<.5	7.62
4613	1.6	793.9	4.0	25	.6	1.4	4.0	599	1.03	<.5	.7	.7	1.9	51	<.1	.1	<.1	14	1.61	.036	5	4	.22	130	.007	1	.47	.030	.17	<.1	.01	.8	<.1	<.05	2	<.5	6.54
4614	.6	83.0	2.6	33	<.1	1.7	4.2	591	1.26	<.5	.6	.5	1.2	70	<.1	.1	<.1	28	1.58	.050	5	6	.33	261	.024	<1	.56	.032	.12	.3	<.01	1.6	<.1	<.05	3	<.5	6.17
4615	.3	128.5	4.3	30	.3	1.5	3.8	571	1.14	<.5	.7	.6	1.7	74	<.1	.1	<.1	18	1.94	.047	7	6	.24	351	.008	1	.51	.032	.18	.5	.01	1.3	<.1	<.05	2	<.5	5.93
4616	.5	522.2	2.6	20	.6	1.0	2.0	601	.60	<.5	1.0	.6	3.0	50	.1	.2	.1	5	1.61	.018	8	4	.14	196	.003	1	.35	.022	.17	.1	.01	.7	<.1	<.05	1	<.5	6.62
4617	.6	298.0	3.9	10	.3	.6	1.1	485	.42	<.5	.8	.8	2.8	57	.1	.1	<.1	1	1.57	.013	8	5	.07	670	<.001	1	.28	.032	.19	.1	.01	.3	<.1	<.05	1	<.5	6.30
4618	.4	306.9	3.0	23	.2	1.5	3.4	818	.67	<.5	1.0	<.5	3.4	58	.1	.2	.1	4	2.14	.022	11	5	.19	74	.001	1	.42	.024	.20	.2	.01	.7	<.1	<.05	1	<.5	5.72
4619	.3	1682.5	3.2	21	1.6	1.1	2.8	627	.79	<.5	.8	<.5	2.1	118	.1	.6	.2	8	2.07	.036	6	6	.18	295	.006	1	.51	.030	.17	.1	.01	.6	<.1	<.05	2	<.5	7.26
4620	.2	54.0	2.1	37	<.1	1.6	4.1	598	1.10	<.5	.8	<.5	1.7	63	<.1	.2	<.1	13	1.75	.049	6	6	.27	115	.005	1	.54	.031	.16	.2	.01	.9	<.1	<.05	2	<.5	6.31
4621	.3	29.2	4.0	36	<.1	1.5	4.3	451	1.21	<.5	.5	1.4	1.4	73	<.1	.2	<.1	21	1.66	.048	7	4	.26	254	.010	2	.53	.039	.16	.1	.01	1.3	<.1	<.05	2	<.5	6.53
4622	.3	173.0	2.6	34	.1	2.0	4.1	568	1.18	.5	.6	<.5	1.2	91	<.1	.2	.1	21	1.69	.045	7	5	.30	340	.008	1	.56	.036	.16	<.1	.01	1.2	.1	<.05	3	<.5	6.11
4623	.3	608.4	2.8	28	.4	1.5	5.0	555	1.33	<.5	.5	1.1	1.2	116	<.1	.1	<.1	24	1.61	.048	7	6	.30	293	.003	1	.61	.039	.20	<.1	.01	1.4	<.1	<.05	3	<.5	4.76
4624	.3	753.5	2.3	28	.7	1.5	3.7	1057	1.07	<.5	.6	1.2	1.2	117	.1	.1	.1	13	2.65	.053	7	4	.22	163	.002	1	.50	.019	.21	<.1	.01	1.2	<.1	<.05	2	<.5	6.42
4625	.2	59.5	2.4	30	<.1	1.3	3.7	463	1.09	<.5	.7	<.5	1.4	139	<.1	.1	<.1	18	1.66	.046	7	3	.26	488	.006	1	.53	.035	.16	.1	.01	1.3	<.1	<.05	2	<.5	6.35
4626	.3	203.4	3.1	32	.2	1.0	3.3	666	.85	<.5	.9	<.5	1.4	205	.1	.1	.1	8	2.83	.049	8	5	.17	697	.001	1	.49	.017	.20	.1	<.01	.9	<.1	<.05	1	<.5	6.41
4627	.3	66.9	2.2	32	<.1	1.5	4.2	511	1.21	.7	.7	<.5	1.5	194	<.1	.1	<.1	17	2.57	.052	7	5	.25	129	.003	1	.58	.025	.19	.1	<.01	1.0	<.1	<.05	2	<.5	5.97
4628	.3	50.9	2.7	28	<.1	1.4	3.5	531	1.18	.5	.6	<.5	1.3	158	.1	.1	<.1	19	2.73	.044	5	5	.27	160	.027	1	.57	.031	.15	.1	.01	1.2	<.1	<.05	2	<.5	7.65
STANDARD DS7	20.6	109.9	67.5	404	.9	57.2	9.7	643	2.45	49.1	4.8	81.6	4.4	72	6.6	5.9	4.4	86	.95	.081	12	244	1.06	380	.121	38	1.01	.092	.47	3.9	.20	2.5	4.1	.22	5	3.4	-

Sample type: DRILL CORE R150. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___

Happy Creek Minerals Ltd. PROJECT RATERIA FILE # A608608

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample kg
G-1	.3	8.1	2.9	42	<.1	4.8	4.5	536	1.92	<.5	2.9	<.5	4.4	59	<.1	<.1	.1	40	.48	.068	8	10	.58	207	.127	1	.95	.075	.47	.1	<.01	1.9	.3	<.05	5	<.5	-
4629	.2	34.1	1.8	31	<.1	1.4	4.2	490	1.28	.5	.5	<.5	.9	162	<.1	.1	<.1	30	1.69	.048	4	5	.42	160	.037	1	.63	.034	.09	<.1	<.01	1.5	<.1	<.05	3	<.5	5.82
STANDARD DS7	19.9	108.6	70.9	404	.9	56.7	9.9	631	2.45	49.1	5.0	68.0	4.6	72	6.4	6.0	4.7	82	.94	.079	13	247	1.06	372	.125	39	1.00	.087	.44	3.8	.19	2.5	4.2	.20	5	3.4	-

Sample type: DRILL CORE R150.

 Data ___ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9001 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Happy Creek Minerals Ltd. File # A608905

2304 - 1066 W. Hastings S, Vancouver BC V6E 3A2 Submitted by: David Blann

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample kg
G-1	.7	2.3	3.3	51	<.1	6.9	4.6	505	1.78	.5	2.3	1.2	3.9	45	.1	<.1	.1	39	.42	.084	7	75	.61	240	.121	1	1.05	.049	.53	.1	<.01	1.8	.3	<.05	5	<.5	-
4701	4.6	1042.1	1.4	15	.8	<.1	1.7	791	.60	.9	.3	<.5	.5	64	<.1	.2	.2	6	2.30	.030	7	2	.10	121	.001	2	.37	.018	.19	.1	.01	.5	<.1	<.05	1	.5	5.65
4702	.7	1790.4	1.1	10	1.1	.1	.9	736	.43	.7	.3	1.4	.7	52	<.1	.3	.3	3	1.80	.028	8	3	.06	70	.001	2	.32	.010	.20	.2	.01	.4	<.1	<.05	1	<.5	5.25
4703	.6	139.2	1.6	46	<.1	1.3	4.8	679	1.34	<.5	.7	<.5	1.4	99	<.1	.2	.1	24	1.94	.051	8	3	.38	236	.001	2	.63	.035	.12	.1	.02	1.5	<.1	<.05	2	<.5	6.69
4704	2.0	156.3	2.0	42	<.1	1.4	5.1	549	1.29	.8	.7	<.5	1.5	107	<.1	.3	.1	20	1.77	.055	8	6	.25	84	.001	1	.52	.030	.11	.1	.01	1.2	<.1	<.05	2	<.5	4.50
4705	.3	233.6	1.8	41	.1	1.0	4.7	792	1.27	<.5	.4	.5	.9	94	<.1	.2	.1	20	2.25	.053	6	4	.38	151	.001	1	.40	.029	.13	.1	.01	1.3	<.1	<.05	1	<.5	5.12
4706	.6	135.2	1.5	40	<.1	1.1	5.0	717	1.26	<.5	.4	<.5	.8	88	<.1	.1	<.1	23	2.05	.054	6	4	.33	182	.001	1	.42	.030	.13	<.1	.01	1.3	<.1	<.05	1	<.5	5.82
4707	.7	479.6	1.3	35	.3	.9	4.3	910	1.05	.7	.4	<.5	.9	111	.1	.2	.1	11	2.86	.053	7	4	.29	87	.001	2	.37	.018	.18	.1	.01	.9	<.1	<.05	1	<.5	3.38
4708	.4	155.2	1.7	41	<.1	1.1	4.7	751	1.26	<.5	.4	<.5	.9	98	<.1	.1	<.1	21	2.06	.054	6	5	.28	174	.002	1	.45	.027	.13	<.1	.01	1.4	<.1	<.05	2	<.5	4.96
4709	1.2	241.9	1.6	33	.1	1.0	4.4	703	1.16	.6	.4	.6	1.2	103	<.1	.2	.1	20	2.00	.053	7	4	.23	132	.001	1	.45	.028	.17	.1	<.01	1.2	<.1	<.05	1	<.5	6.12
RE 4709	1.1	239.4	1.7	34	.1	1.1	4.7	697	1.17	.6	.5	<.5	1.2	105	<.1	.2	.1	20	1.99	.052	7	3	.23	136	.001	1	.47	.027	.18	.1	.01	1.3	<.1	<.05	1	<.5	-
RRE 4709	1.8	256.5	1.7	35	.1	.9	4.5	714	1.15	<.5	.5	<.5	1.1	104	<.1	.2	.1	19	1.99	.049	7	4	.24	135	.001	1	.46	.027	.17	.1	.01	1.2	<.1	<.05	1	<.5	-
4710	.5	186.9	1.7	31	.1	.9	4.0	708	1.05	<.5	.4	<.5	1.0	133	<.1	.1	<.1	13	2.29	.049	6	4	.23	87	.001	2	.48	.024	.17	.1	<.01	1.0	<.1	<.05	1	<.5	5.28
4711	.6	174.2	2.1	25	<.1	.7	4.2	498	1.15	.5	.6	<.5	1.0	156	<.1	.3	<.1	19	2.08	.053	7	4	.28	226	.001	2	.54	.033	.15	.1	.01	1.3	<.1	<.05	2	<.5	2.34
4712	.4	13.8	1.8	33	<.1	1.6	4.6	398	1.37	<.5	.5	<.5	1.3	126	<.1	.2	<.1	26	1.42	.052	8	4	.39	370	.002	1	.68	.041	.12	.1	.01	1.8	<.1	<.05	3	<.5	4.36
4713	.5	74.9	1.5	30	<.1	1.6	4.8	465	1.22	<.5	.6	<.5	1.8	98	<.1	.2	<.1	22	1.47	.050	7	4	.41	396	.002	2	.64	.033	.10	<.1	.01	1.4	<.1	<.05	3	<.5	5.66
4714	1.2	75.2	2.1	29	<.1	1.0	4.1	447	1.25	<.5	.6	<.5	1.5	129	<.1	.4	<.1	19	1.82	.051	7	5	.31	282	.001	2	.54	.035	.17	.1	.01	1.3	<.1	<.05	2	<.5	5.53
4715	1.5	387.2	2.3	27	.2	.7	4.4	550	1.16	<.5	.5	<.5	1.3	138	.1	.1	<.1	15	2.31	.048	7	4	.26	422	.001	2	.39	.024	.16	.1	.01	1.0	<.1	<.05	1	<.5	4.97
4716	.4	782.2	2.5	29	.5	.7	4.7	757	1.23	<.5	.5	<.5	1.1	174	.1	.2	.1	9	2.82	.046	7	3	.35	386	.001	1	.43	.019	.19	.1	.01	.8	<.1	<.05	1	<.5	4.03
4717	1.0	402.8	3.0	23	.3	.4	3.8	685	1.05	<.5	.6	<.5	1.3	223	<.1	.1	.1	9	2.82	.051	7	3	.31	537	.001	2	.40	.018	.17	.1	.01	.9	<.1	<.05	1	<.5	3.12
4718	.3	21.9	2.7	29	<.1	1.3	4.1	412	1.28	<.5	.6	<.5	1.2	147	.1	.1	<.1	23	1.57	.048	7	4	.29	405	.003	1	.56	.037	.13	<.1	.01	1.5	.1	<.05	2	<.5	2.42
STANDARD DS7	21.4	107.5	67.5	401	.9	57.9	9.7	650	2.48	48.5	4.8	62.8	4.7	77	6.4	6.0	4.4	86	1.00	.079	16	271	1.08	385	.134	39	1.19	.099	.47	4.0	.20	2.6	4.3	.20	5	3.5	-

GROUP 1DX - 15.0 GM SAMPLE LEACHED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 300 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: DRILL CORE R150 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

12-20-06 A11:13 OUT

Data ____ **FA** ____ **DATE RECEIVED:** NOV 28 2006 **DATE REPORT MAILED:**.................

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9001 Accredited Co.)

ASSAY CERTIFICATE

Happy Creek Minerals Ltd. File # A606030R

2304 - 1066 W. Hastings S, Vancouver BC V6E 3A2

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag** gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	Hg %	Au** gm/mt
184314	<.001	.107	<.01	.01	3	<.001	.001	.03	1.50	<.01	.002	<.001	<.001	<.01	.57	.037	.001	.41	.78	.04	.11	.040	<.001	.09
184315	<.001	.139	.01	.01	5	<.001	.002	.12	3.06	<.01	.005	<.001	.002	<.01	.81	.070	.001	1.27	2.16	.11	.23	<.001	<.001	.08
185468	.004	.019	<.01	<.01	5	<.001	.001	.01	4.98	<.01	.003	<.001	<.001	<.01	.10	.046	.001	.13	.55	.04	.18	<.001	<.001	.49
185475	.001	.020	.06	.02	365	<.001	<.001	<.01	6.25	.01	.001	<.001	.001	<.01	.01	.027	.001	.06	.36	.05	.22	.001	<.001	53.18
185476	.004	.001	<.01	<.01	2	<.001	<.001	<.01	.58	<.01	<.001	<.001	.001	<.01	<.01	.003	.001	<.01	.03	<.01	.02	<.001	<.001	.42
185479	.172	<.001	<.01	<.01	3	<.001	<.001	<.01	.23	<.01	<.001	<.001	.001	<.01	<.01	<.001	.002	<.01	.01	<.01	<.01	<.001	<.001	.42
185480	.159	.001	<.01	<.01	<2	<.001	<.001	<.01	.33	<.01	<.001	<.001	.001	<.01	.01	<.001	.002	<.01	<.01	<.01	<.01	<.001	<.001	.02
185483	.637	.004	<.01	<.01	<2	<.001	.001	.05	2.19	<.01	.006	<.001	.001	.01	.76	.043	.001	.68	1.25	.13	.40	.010	<.001	.03
185484	.103	.064	<.01	.02	<2	.018	.002	.12	5.77	<.01	.003	<.001	.002	<.01	1.16	.079	.018	2.72	2.49	.08	1.86	.036	<.001	.01
185485	8.683	.022	<.01	<.01	<2	.005	.002	.05	3.08	<.01	.002	.001	.022	<.01	1.14	.047	.011	1.67	1.99	.11	1.12	.004	<.001	.03
185486	.351	.003	<.01	<.01	<2	<.001	<.001	.01	.69	<.01	<.001	<.001	.001	<.01	.33	.009	.001	.05	.28	.03	.12	<.001	<.001	.01
185487	.192	.005	<.01	<.01	<2	<.001	<.001	.03	1.89	<.01	.001	<.001	.001	<.01	.19	.055	.002	.27	.71	.07	.39	<.001	<.001	.01
185488	1.292	.007	<.01	<.01	<2	.001	.001	.04	1.67	<.01	.002	<.001	.003	.01	.30	.060	.003	.64	1.09	.09	.52	<.001	<.001	<.01
RE 185488	1.296	.007	<.01	<.01	<2	.001	<.001	.04	1.69	<.01	.002	<.001	.003	.01	.29	.060	.003	.63	1.08	.09	.52	.001	<.001	.02
185489	1.244	.001	<.01	<.01	<2	<.001	<.001	<.01	.37	<.01	<.001	<.001	.003	<.01	.01	.002	.001	.02	.06	.01	.04	<.001	<.001	<.01
STANDARD R-3/SL20	.075	.807	1.92	4.12	194	.530	.059	.07	29.77	.04	.003	.023	.038	<.01	1.29	.047	.012	1.03	1.11	.04	.44	.002	.002	6.23

GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES.
AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: ROCK PULP   Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ **FA** ____   **DATE RECEIVED:** DEC 22 2006   **DATE REPORT MAILED:**......JAN 04 2007

BRITISH COLUMBIA CERTIFIED ASSAYER
Raymond Chan

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9001 Accredited Co.)

ASSAY CERTIFICATE

Happy Creek Minerals Ltd. PROJECT RATERIA File # A608905R

2304 - 1066 W. Hastings S, Vancouver BC V6E 3X2 Submitted by: David Blann

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	Hg %
4701	<.001	.104	<.01	<.01	<2	<.001	<.001	.08	.61	<.01	.008	<.001	<.001	<.01	2.45	.025	<.001	.10	.59	.05	.33	<.001	<.001
4702	<.001	.188	<.01	<.01	<2	<.001	<.001	.08	.47	<.01	.007	<.001	.001	<.01	1.89	.028	.001	.06	.49	.02	.35	<.001	<.001
STANDARD R-3	.073	.812	1.98	4.05	194	.527	.061	.07	31.02	.04	.003	.023	.038	<.01	1.34	.047	.013	1.08	1.14	.04	.44	<.001	.002

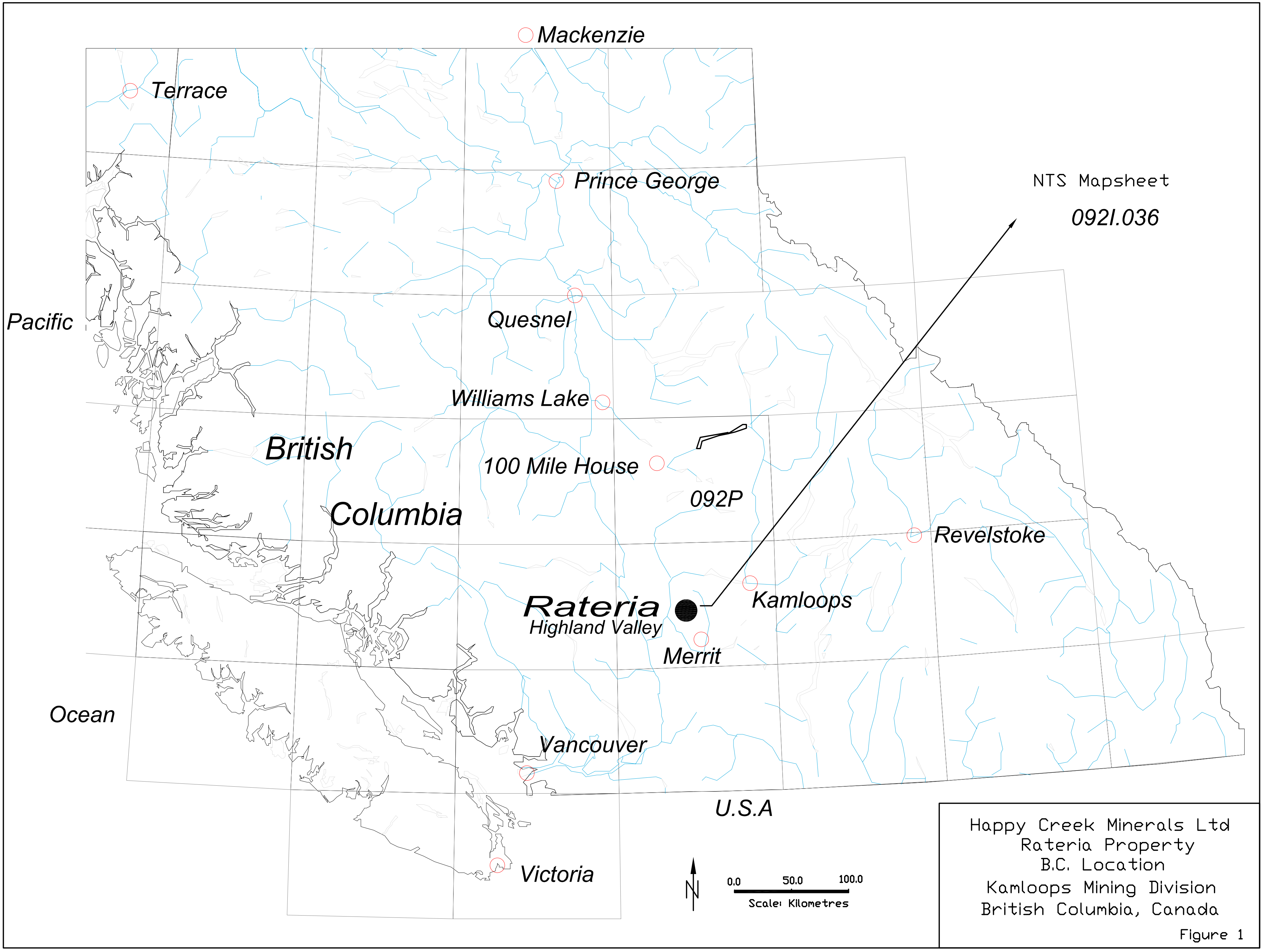
GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES.
- SAMPLE TYPE: CORE PULP

Data FA ____ DATE RECEIVED: JAN 8 2007 DATE REPORT MAILED: JAN 16 2007

BRITISH COLUMBIA CERTIFIED ASSAYER
Raymond Chan

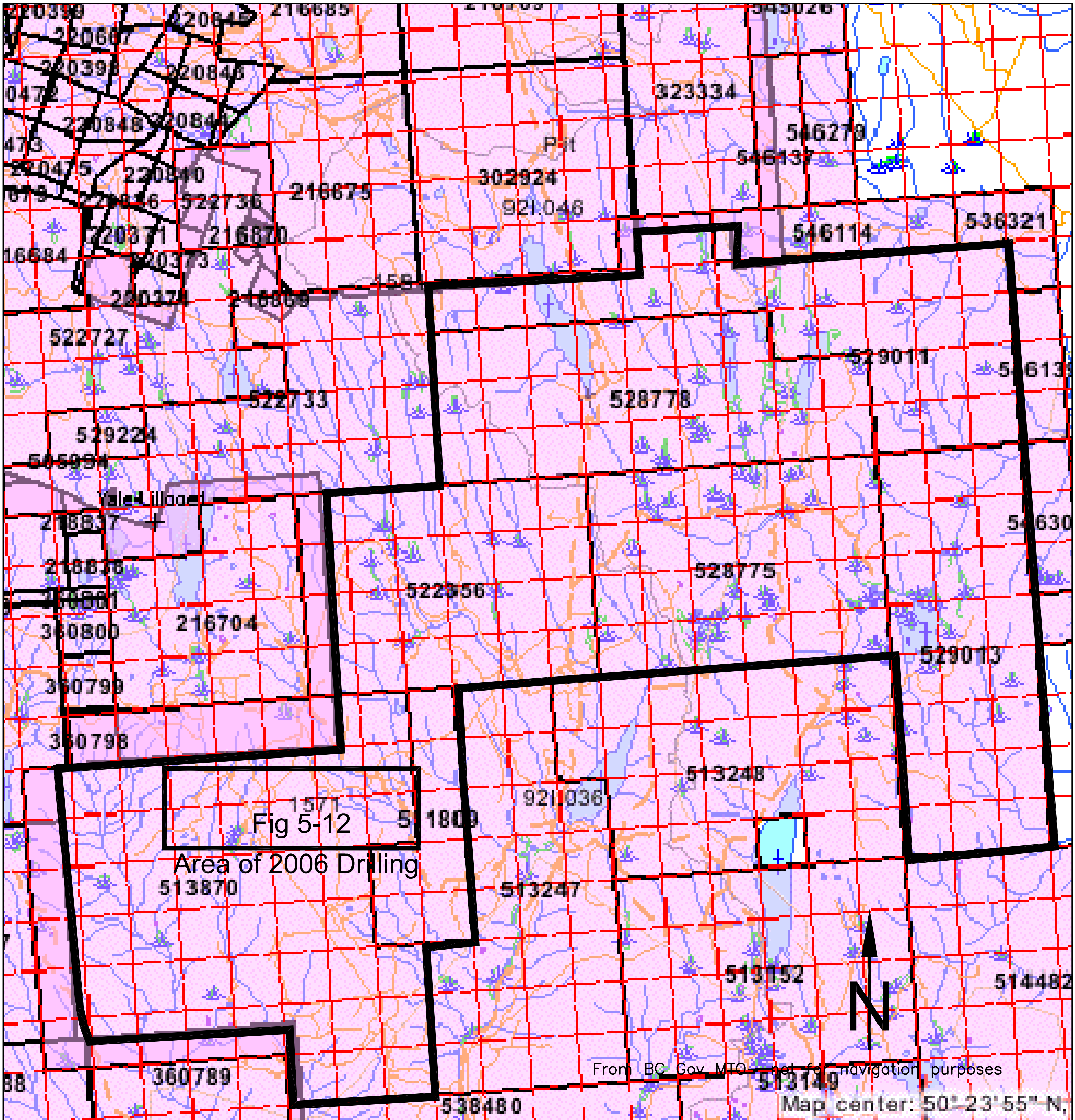
Appendix 3

Figures

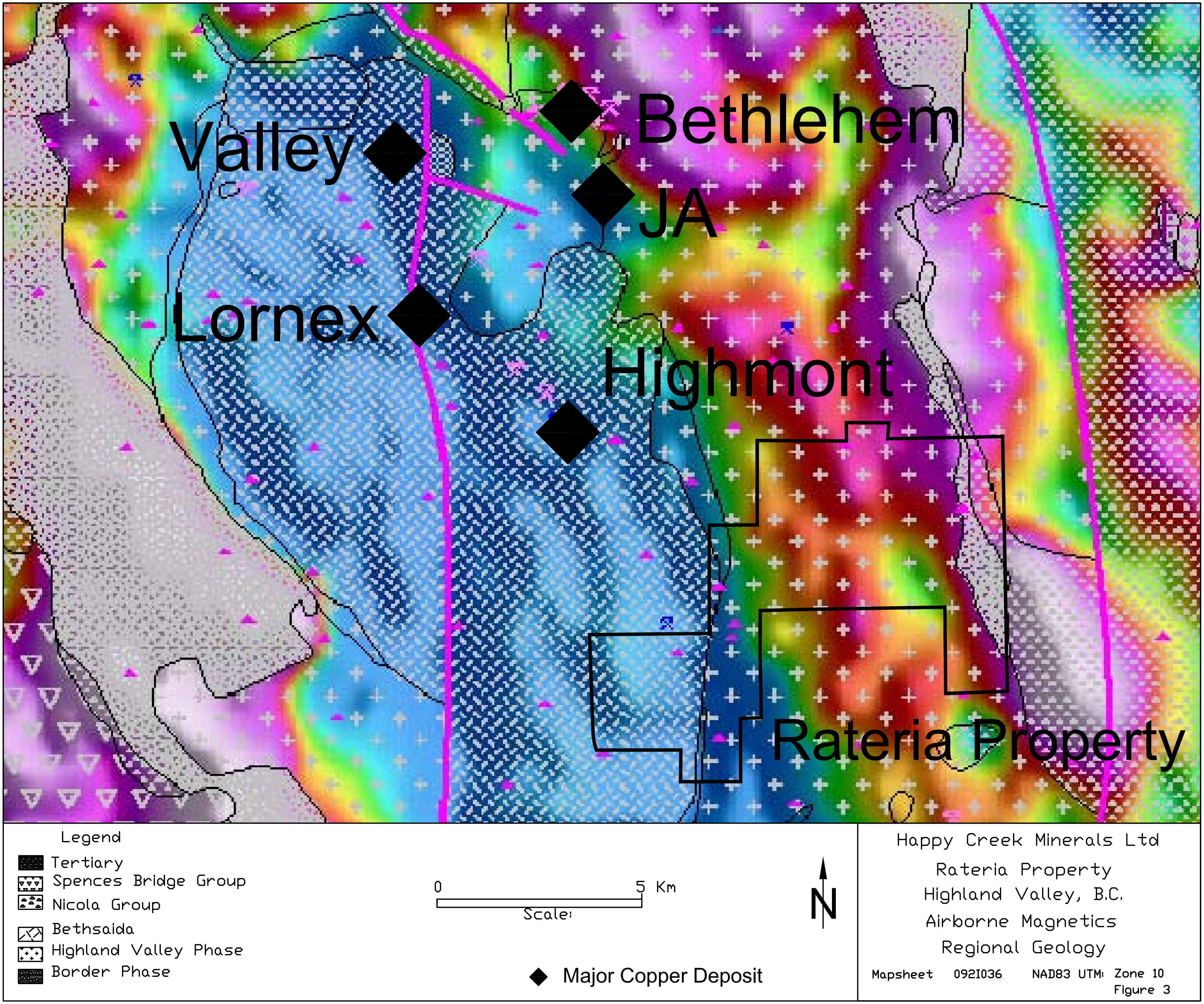


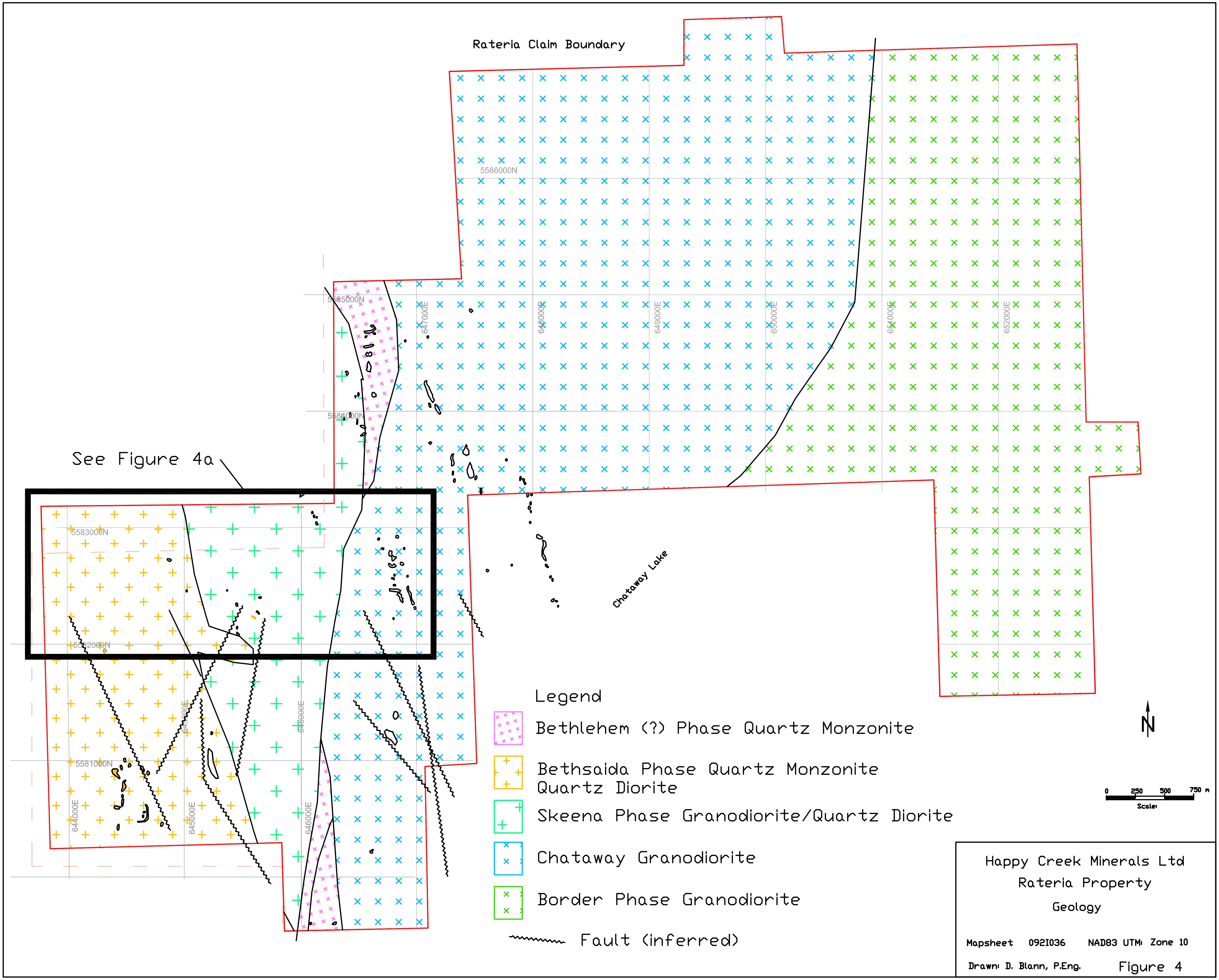
Happy Creek Minerals Ltd
Rateria Property
B.C. Location
Kamloops Mining Division
British Columbia, Canada

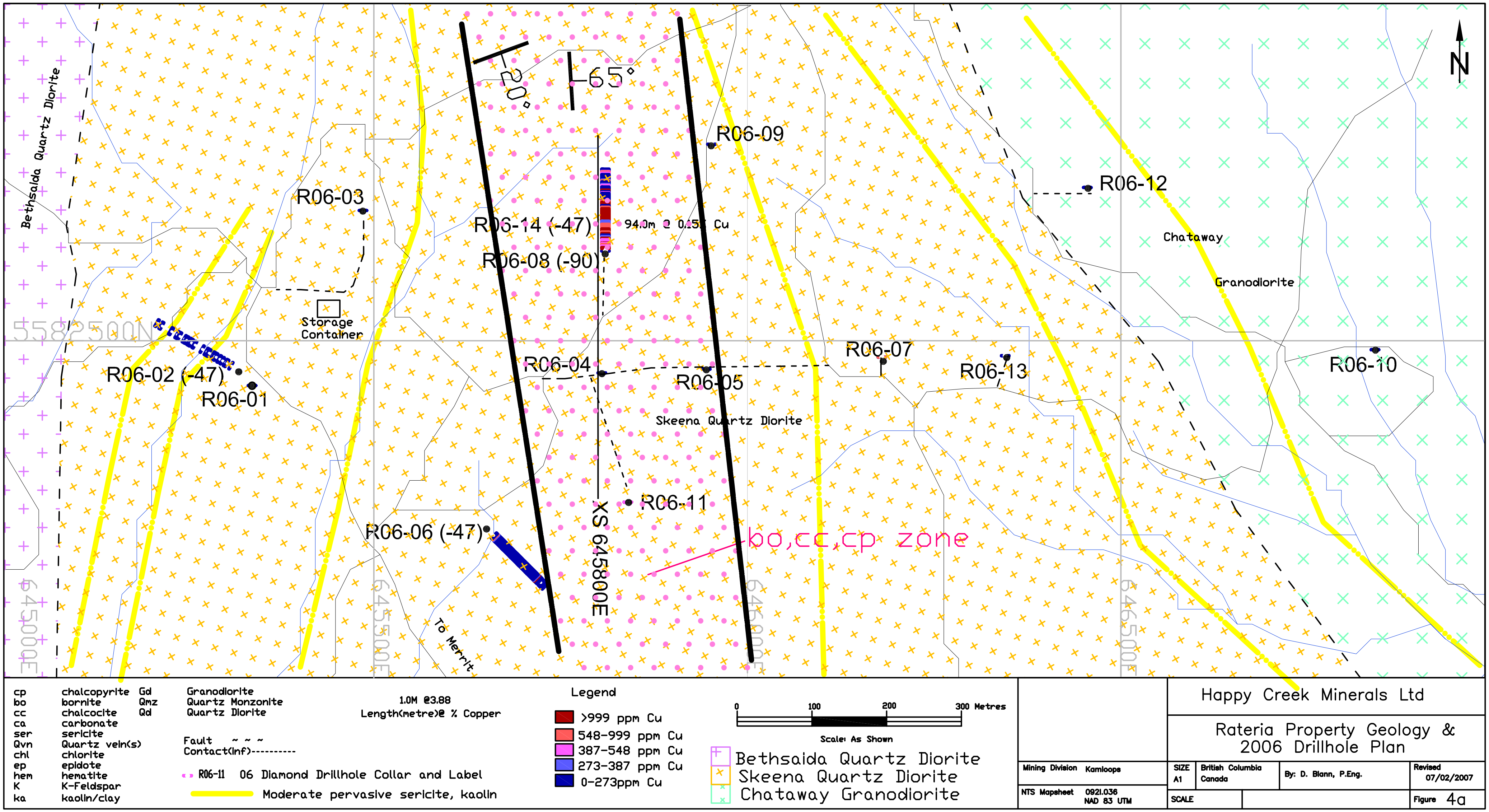
Figure 1

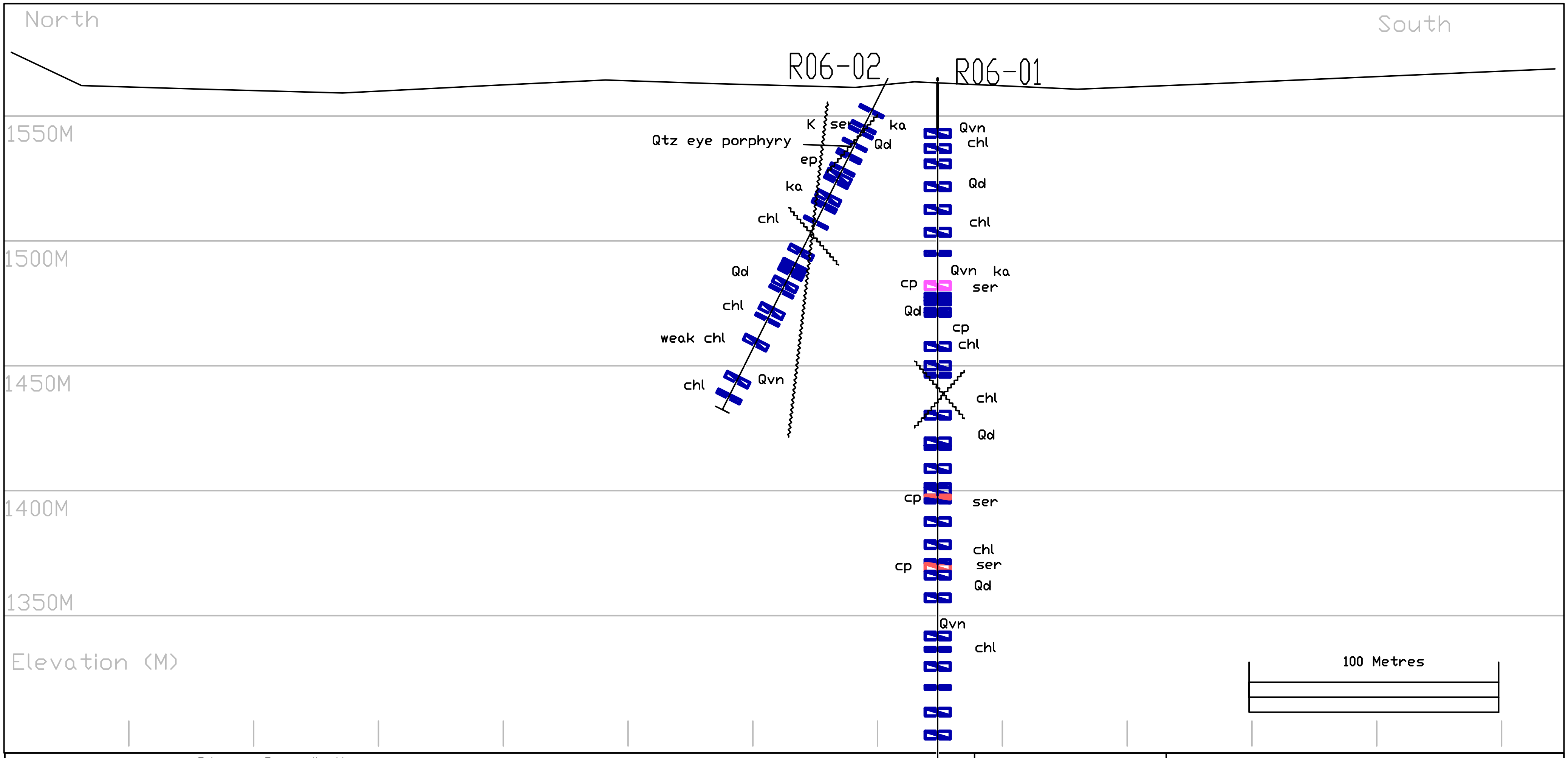


Mineral Tenure 0 500 1000 1500m Scale: As Shown	Happy Creek Minerals Ltd Rateria Property Highland Valley, B.C.		
Mining Division Kamloops	SIZE A1	British Columbia Canada	By: D. Blann, P.Eng.	Revised 07/02/2007
NTS Mapsheet 092I.036	SCALE		Figure 2


Bethlehem
Valley
JA
Lornex
Highmont
Rateria Property
Legend
Tertiary
Spences Bridge Group
Nicola Group
Bethsaida
Highland Valley Phase
Border Phase
0
5 Km
Scale:
N
Major Copper Deposit
Happy Creek Minerals Ltd
Rateria Property
Highland Valley, B.C.
Airborne Magnetics
Regional Geology
Mapsheet 092I036 NAD83 UTM: Zone 10
Figure 3


Rateria Claim Boundary
See Figure 4a
Chataway Lake
5586000N
5585000N
5584000N
5583000N
5582000N
5581000N
644000E
645000E
646000E
647000E
648000E
649000E
650000E
651000E
652000E
Legend
Bethlehem (?) Phase Quartz Monzonite
Bethsaida Phase Quartz Monzonite
Quartz Diorite
Skeena Phase Granodiorite/Quartz Diorite
Chataway Granodiorite
Border Phase Granodiorite
Fault (inferred)
N
0 250 500 750 m
Scale:
Happy Creek Minerals Ltd
Rateria Property
Geology
Mapsheet 092I036
NAD83 UTM: Zone 10
Drawn: D. Blann, P.Eng.
Figure 4


Bethsaida Quartz Diorite
R06-03
R06-14 (-47)
94.0m @ 0.15% Cu
R06-08 (-90)
R06-09
R06-12
Chataway
Granodiorite
20°
65°
Storage
Container
5582500N
R06-02 (-47)
R06-01
R06-04
R06-05
R06-07
R06-13
R06-10
Skeena Quartz Diorite
R06-11
R06-06 (-47)
bo,cc,cp zone
XS 645800E
To Merrit
645000E
645500E
646000E
646500E
N
cp chalcopyrite
bo bornite
cc chalcocite
ca carbonate
ser sericite
Qvn Quartz vein(s)
chl chlorite
ep epidote
hem hematite
K K-Feldspar
ka kaolin/clay
Gd Granodiorite
Qmz Quartz Monzonite
Qd Quartz Diorite
1.0M @3.88
Length(metre)@ % Copper
Fault ~ ~ ~
Contact(inf)----------
R06-11 06 Diamond Drillhole Collar and Label
Moderate pervasive sericite, kaolin
Legend
>999 ppm Cu
548-999 ppm Cu
387-548 ppm Cu
273-387 ppm Cu
0-273ppm Cu
0 100 200 300 Metres
Scale: As Shown
Bethsaida Quartz Diorite
Skeena Quartz Diorite
Chataway Granodiorite
Happy Creek Minerals Ltd
Rateria Property Geology &
2006 Drillhole Plan
Mining Division Kamloops
NTS Mapsheet 092I.036
NAD 83 UTM
SIZE A1
British Columbia Canada
By: D. Blann, P.Eng.
Revised 07/02/2007
SCALE
Figure 4a



cp	chalcopyrite	Gd	Granodiorite
bo	bornite	Qmz	Quartz Monzonite
cc	chalcocite	Qd	Quartz Diorite
ca	carbonate		
ser	sericite		
Qvn	Quartz vein(s)		Fault ~ ~ ~
chl	chlorite		Contact(inf)— — — —
ep	epidote		
hem	hematite		
K	K-Feldspar		
ka	kaolin/clay		

1.0M @3.88
Length(metre)@ % Copper

Copper Grades (ppm)

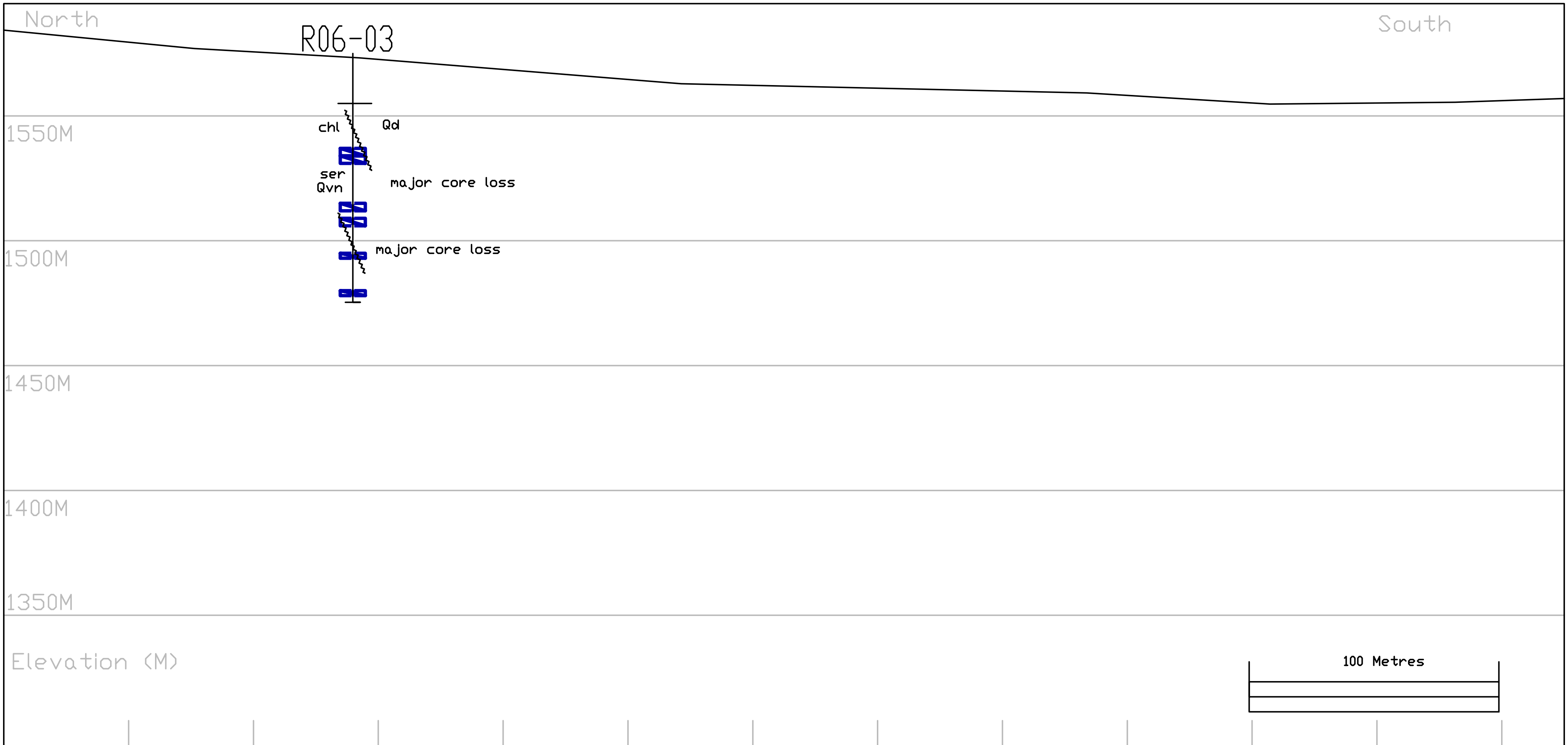
- >999 ppm Cu
- 548-999 ppm Cu
- 387-548 ppm Cu
- 273-387 ppm Cu
- 0-273ppm Cu

Facing East

Happy Creek Minerals Ltd

Rateria Property
Cross Section 645300E

Mining Division Kamloops	SIZE A1	British Columbia Canada	By: D. Blann, P.Eng.	Revised 07/02/2007
NTS Mapsheet 092I.036 NAD 83 UTM	SCALE 1:20,000			Figure 5



cp	chalcopyrite	Gd	Granodiorite
bo	bornite	Qmz	Quartz Monzonite
cc	chalcocite	Qd	Quartz Diorite
ca	carbonate		
ser	sericite		
Qvn	Quartz vein(s)		Fault ~ ~ ~
chl	chlorite		Contact(inf)— — — —
ep	epidote		
hem	hematite		
K	K-Feldspar		
ka	kaolin/clay		

1.0M @3.88
Length(metre)@ % Copper

Copper Grades (ppm)

- >999 ppm Cu
- 548-999 ppm Cu
- 387-548 ppm Cu
- 273-387 ppm Cu
- 0-273ppm Cu

Facing East

Happy Creek Minerals Ltd

Rateria Property
Cross Section 645500E

Mining Division Kamloops

NTS Mapsheet 092I.036 NAD 83 UTM

SIZE A1

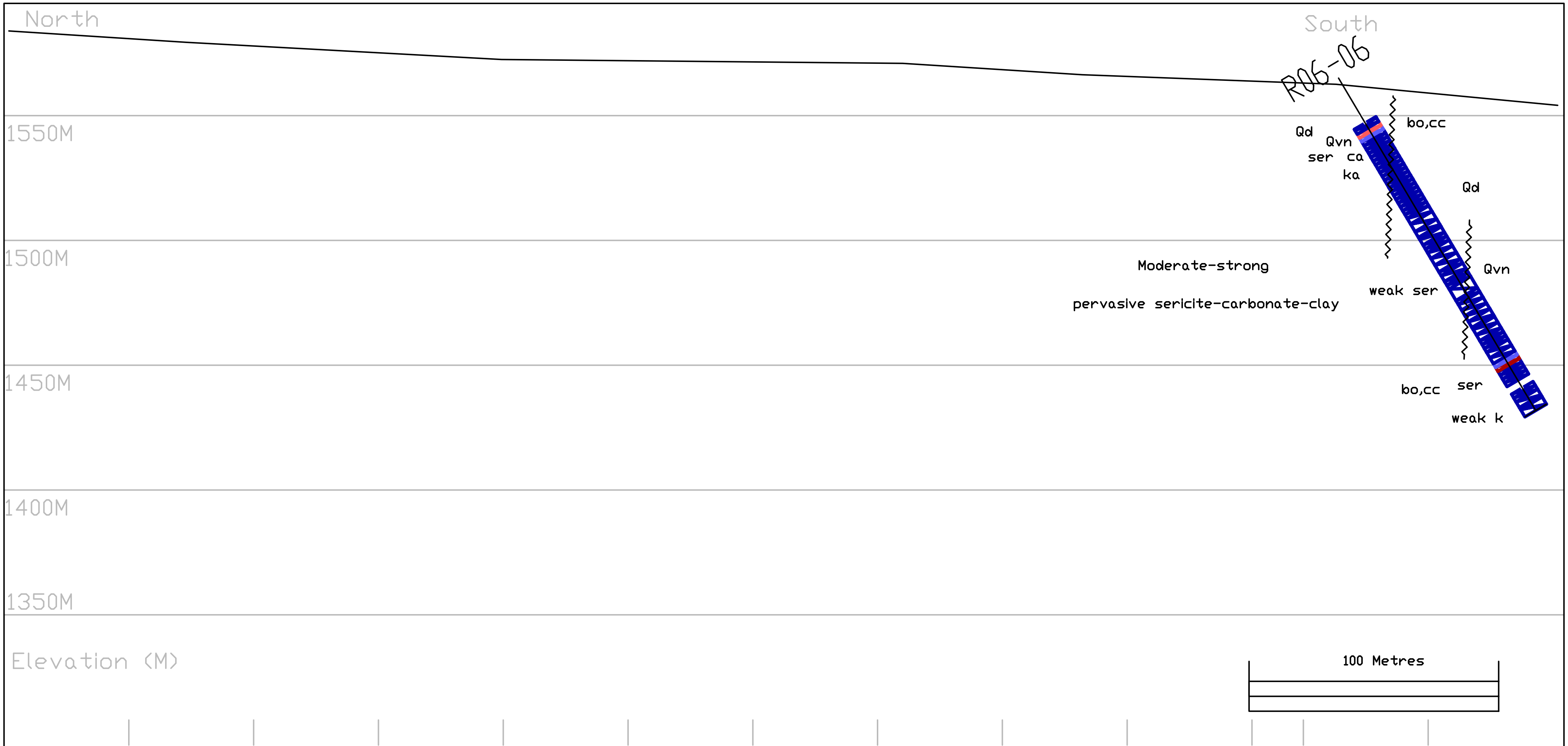
British Columbia Canada

By: D. Blann, P.Eng.

Revised 07/02/2007

SCALE 1:20,000

Figure 6



cp	chalcopyrite	Gd	Granodiorite
bo	bornite	Qmz	Quartz Monzonite
cc	chalcocite	Qd	Quartz Diorite
ca	carbonate		
ser	sericite		
Qvn	Quartz vein(s)		
chl	chlorite		
ep	epidote		
hem	hematite		
K	K-Feldspar		
ka	kaolin/clay		

Fault ~ ~ ~
Contact(inf)— — — —

1.0M @3.88
Length(metre)@ % Copper

Copper Grades (ppm)

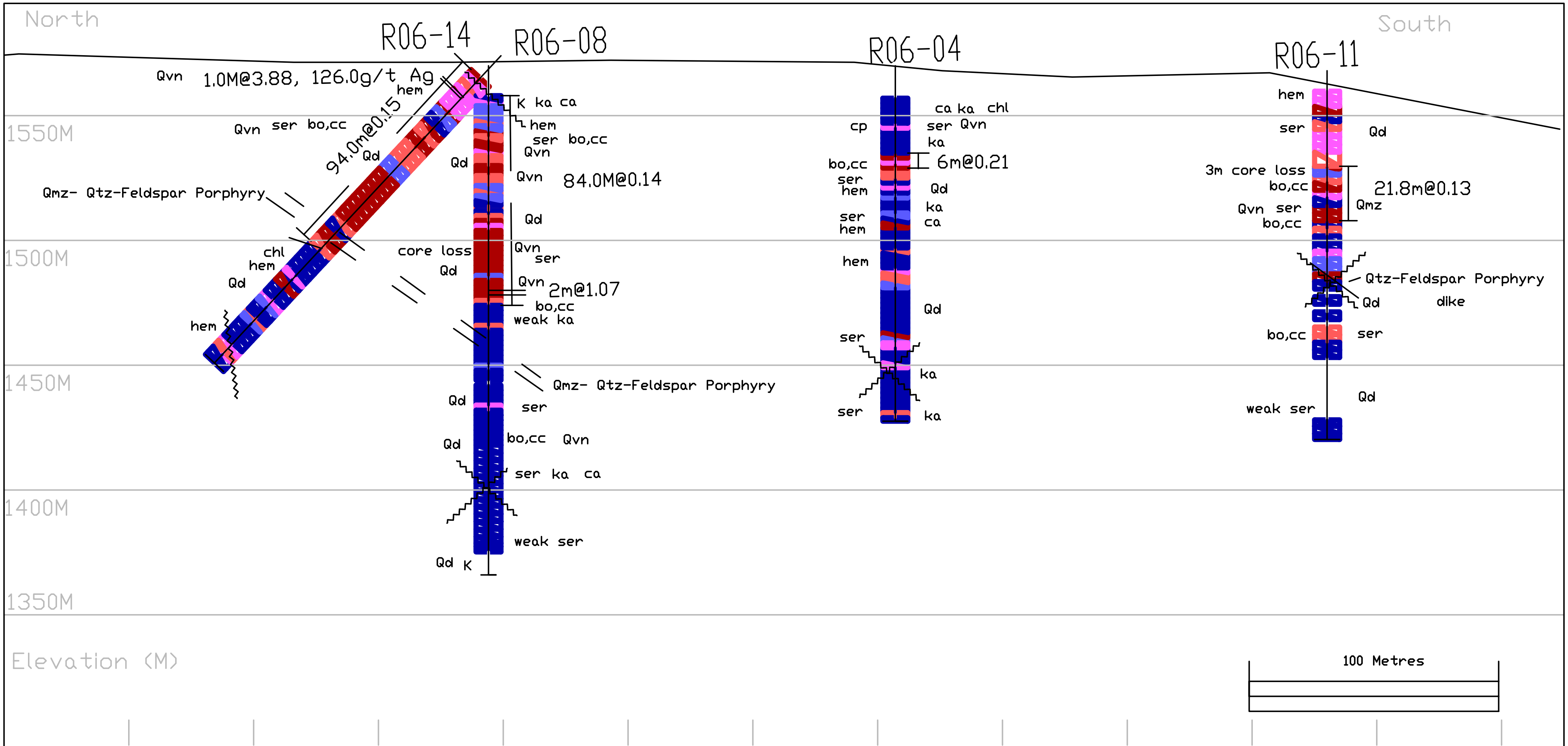
- >999 ppm Cu
- 548-999 ppm Cu
- 387-548 ppm Cu
- 273-387 ppm Cu
- 0-273ppm Cu

Facing East

Happy Creek Minerals Ltd

Rateria Property
Cross Section 645700E

Mining Division Kamloops	SIZE A1	British Columbia Canada	By: D. Blann, P.Eng.	Revised 07/02/2007
NTS Mapsheet 092I.036 NAD 83 UTM	SCALE			Figure 7



cp	chalcopyrite	Gd	Granodiorite
bo	bornite	Qmz	Quartz Monzonite
cc	chalcocite	Qd	Quartz Diorite
ca	carbonate		
ser	sericite		
Qvn	Quartz vein(s)		Fault ~ ~ ~
chl	chlorite		Contact(inf)— — — —
ep	epidote		
hem	hematite		
K	K-Feldspar		
ka	kaolin/clay		

1.0M @3.88
Length(metre)@ % Copper

Copper Grades (ppm)

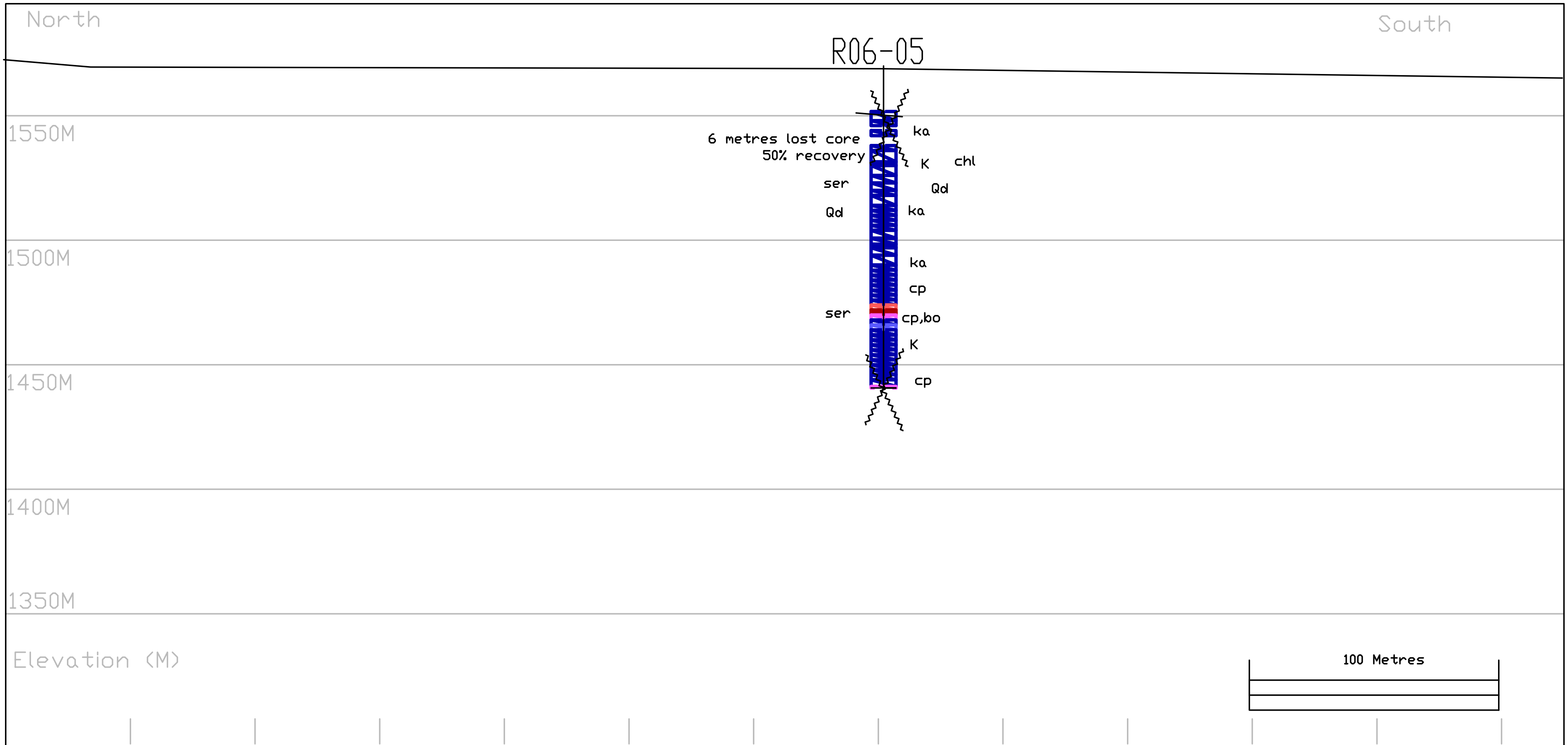
- >999 ppm Cu
- 548-999 ppm Cu
- 387-548 ppm Cu
- 273-387 ppm Cu
- 0-273ppm Cu

Facing East

Happy Creek Minerals Ltd

Rateria Property
Cross Section 645800E

Mining Division Kamloops	SIZE A1	British Columbia Canada	By: D. Blann, P.Eng.	Revised 07/02/2007
NTS Mapsheet 092I.036 NAD 83 UTM	SCALE 1:20,000			Figure 8



cp	chalcopyrite	Gd	Granodiorite
bo	bornite	Qmz	Quartz Monzonite
cc	chalcocite	Qd	Quartz Diorite
ca	carbonate		
ser	sericite		
Qvn	Quartz vein(s)		Fault ~ ~ ~
	chlorite		Contact(inf)— — — —
ep	epidote		
hem	hematite		
K	K-Feldspar		
ka	kaolin/clay		

1.0M @3.88
Length(metre)@ % Copper

Copper Grades (ppm)

- >999 ppm Cu
- 548-999 ppm Cu
- 387-548 ppm Cu
- 273-387 ppm Cu
- 0-273ppm Cu

Facing East

Happy Creek Minerals Ltd

Rateria Property
Cross Section 654900E

Mining Division	Kamloops	SIZE A1	British Columbia Canada	By: D. Blann, P.Eng.
NTS Mapsheet	092I.036 NAD 83 UTM	SCALE 1:20,000		Revised 07/02/2007
				Figure 9

cp	chalcopyrite	Gd	Granodiorite
bo	bornite	Qmz	Quartz Monzonite
cc	chalcocite	Qd	Quartz Diorite
ca	carbonate		
ser	sericite		Fault ~ ~ ~
Qvn	Quartz vein(s)		Contact(inf)— — — —
chl	chlorite		
ep	epidote		
hem	hematite		
K	K-Feldspar		
ka	kaolin/clay		

1.0M @3.88
Length(metre)@ % Copper

Copper Grades (ppm)

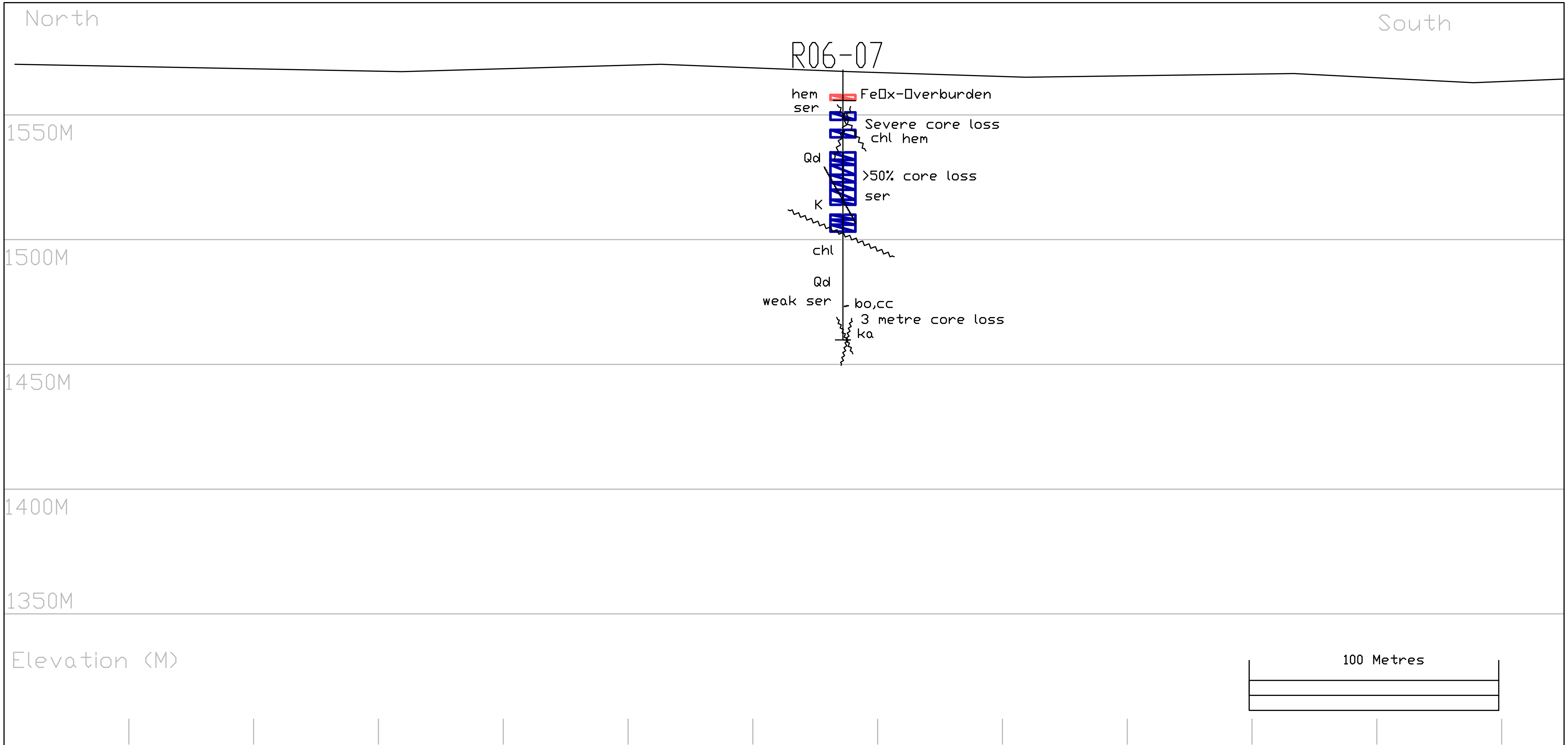
- >999 ppm Cu
- 548-999 ppm Cu
- 387-548 ppm Cu
- 273-387 ppm Cu
- 0-273ppm Cu

Facing East

Happy Creek Minerals Ltd

Rateria Property
Cross Section 646000E

Mining Division Kamloops	SIZE A1	British Columbia Canada	By: D. Blann, P.Eng.	Revised 07/02/2007
NTS Mapsheet 092I.036 NAD 83 UTM	SCALE 1:20,000			Figure 10



cp	chalcopyrite	Gd	Granodiorite
bo	bornite	Qmz	Quartz Monzonite
cc	chalcocite	Qd	Quartz Diorite
ca	carbonate		
ser	sericite		Fault ~ ~ ~
Qvn	Quartz vein(s)		Contact(inf)— — — —
chl	chlorite		
ep	epidote		
hem	hematite		
K	K-Feldspar		
ka	kaolin/clay		

1.0M @3.88
Length(metre)@ % Copper

Copper Grades (ppm)

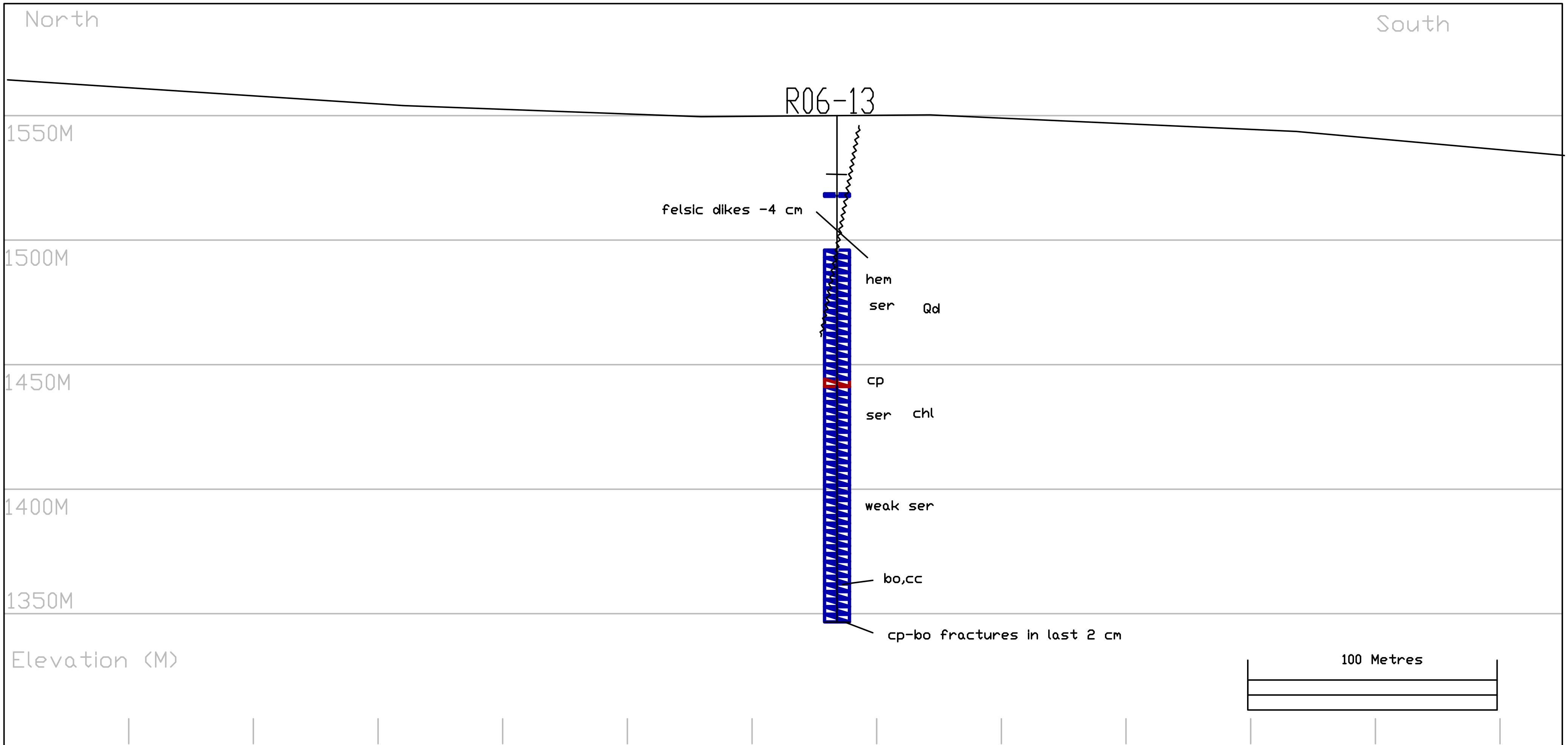
- >999 ppm Cu
- 548-999 ppm Cu
- 387-548 ppm Cu
- 273-387 ppm Cu
- 0-273ppm Cu

Facing East

Happy Creek Minerals Ltd

Rateria Property
Cross Section 646200E

Mining Division Kamloops	SIZE A1	British Columbia Canada	By: D. Blann, P.Eng.	Revised 07/02/2007
NTS Mapsheet 092I.036 NAD 83 UTM	SCALE 1:20,000			Figure 11



cp	chalcopyrite	Gd	Granodiorite
bo	bornite	Qmz	Quartz Monzonite
cc	chalcocite	Qd	Quartz Diorite
ca	carbonate		
ser	sericite		Fault ~ ~ ~
Qvn	Quartz vein(s)		Contact(inf) — — — —
chl	chlorite		
ep	epidote		
hem	hematite		
K	K-Feldspar		
ka	kaolin/clay		

1.0M @3.88
Length(metre)@ % Copper

Copper Grades (ppm)

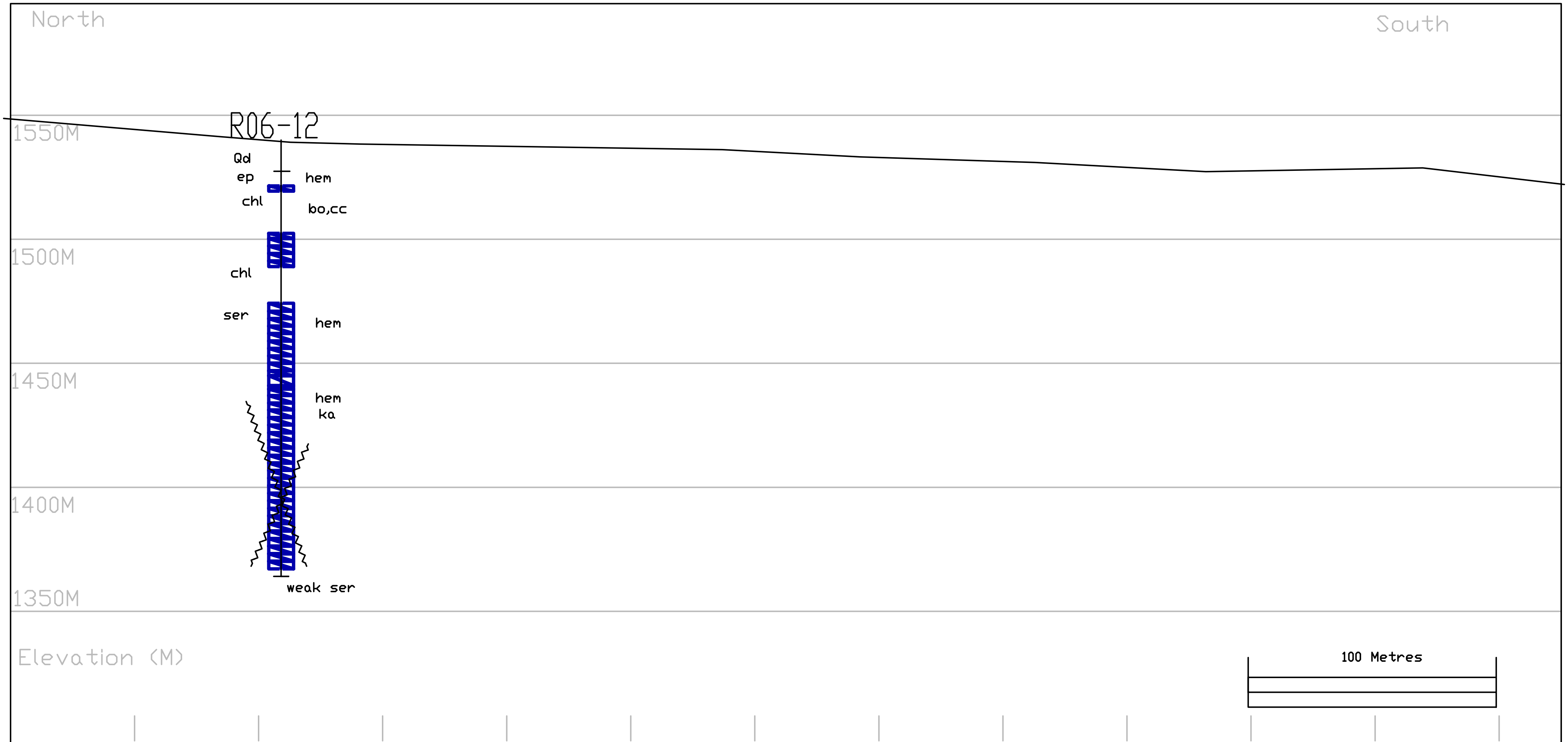
- >999 ppm Cu
- 548-999 ppm Cu
- 387-548 ppm Cu
- 273-387 ppm Cu
- 0-273ppm Cu

Facing East

Happy Creek Minerals Ltd

Rateria Property
Cross Section 646300E

Mining Division Kamloops	SIZE A1	British Columbia Canada	By: D. Blann, P.Eng.	Revised 07/02/2007
NTS Mapsheet 092I.036 NAD 83 UTM	SCALE 1:20,000			Figure 12



cp	chalcopyrite	Gd	Granodiorite
bo	bornite	Qmz	Quartz Monzonite
cc	chalcocite	Qd	Quartz Diorite
ca	carbonate		
ser	sericite		Fault ~ ~ ~
Qvn	Quartz vein(s)		Contact(inf)— — — —
chl	chlorite		
ep	epidote		
hem	hematite		
K	K-Feldspar		
ka	kaolin/clay		

1.0M @3.88
Length(metre)@ % Copper

Copper Grades (ppm)

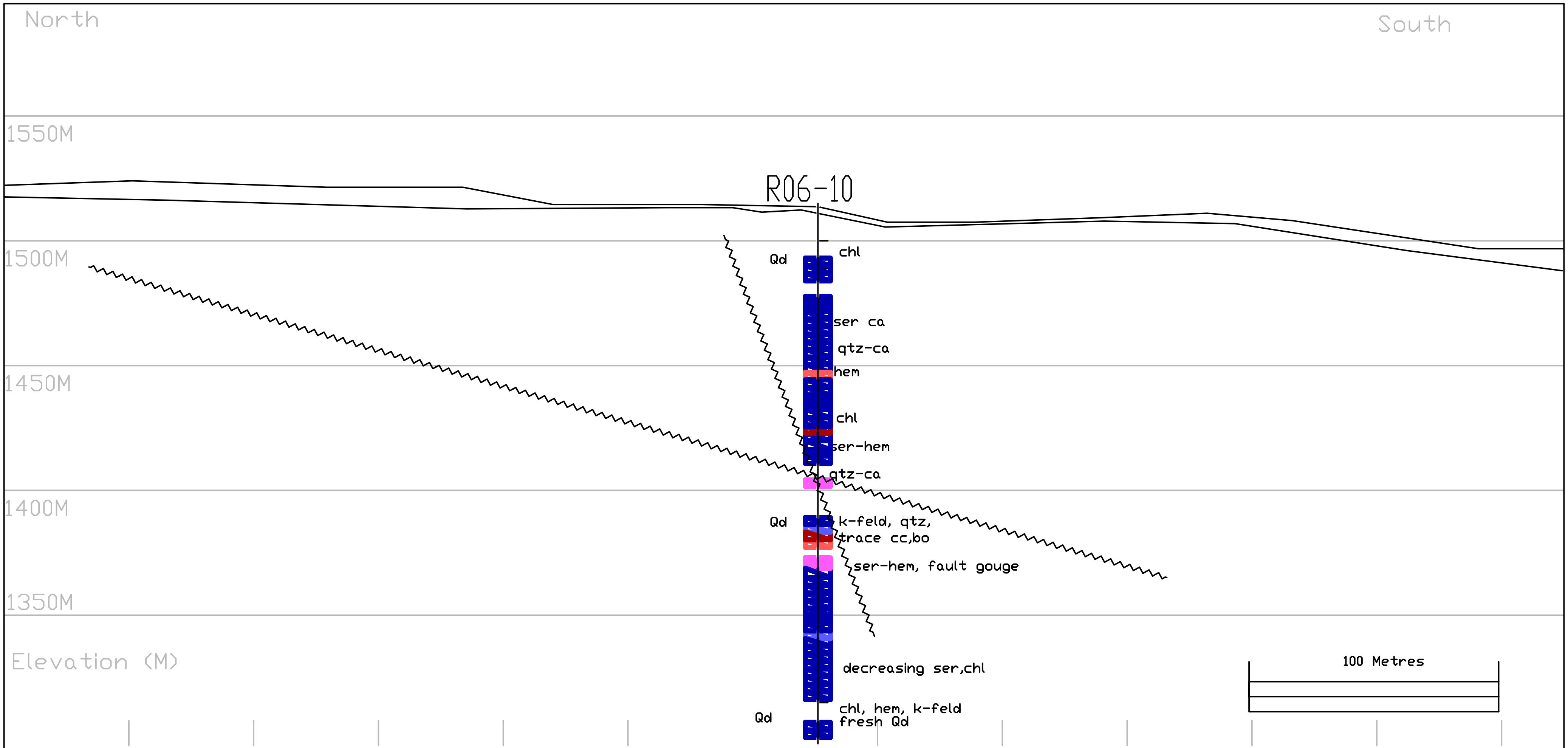
- >999 ppm Cu
- 548-999 ppm Cu
- 387-548 ppm Cu
- 273-387 ppm Cu
- 0-273ppm Cu

Facing East

Happy Creek Minerals Ltd

Rateria Property
Cross Section 646400E

Mining Division Kamloops	SIZE A1	British Columbia Canada	By: D. Blann, P.Eng.	Revised 07/02/2007
NTS Mapsheet 092I.036 NAD 83 UTM	SCALE 1:20,000			Figure 13



cp	chalcopyrite	Gd	Granodiorite
bo	bornite	Qmz	Quartz Monzonite
cc	chalcocite	Qd	Quartz Diorite
ca	carbonate		
ser	sericite		
chl	chlorite		
ep	epidote		
hem	hematite		
K	K-Feldspar		
Fault	~ ~ ~		
Contact(inf)	— — — —		

Copper Grades (ppm)

- >999 ppm Cu
- 548-999 ppm Cu
- 387-548 ppm Cu
- 273-387 ppm Cu
- 0-273ppm Cu

Facing East

Happy Creek Minerals Ltd

Rateria Property
Cross Section 6466000E

Mining Division Kamloops	SIZE A1	British Columbia Canada	By: D. Blann, P.Eng.	Revised 07/02/2007
NTS Mapsheet 092I.036 NAD 83 UTM	SCALE as shown			Figure 14