2001 DIAMOND DRILLING PROGRAM
on the
LORRAINE-JAJAY PROPERTY

OMINECA MINING DIVISION, BC.

NTS: 93N14W

Latitude 55° 55' N, Longitude 125° 27' W

for
EASTFIELD RESOURCES LTD.

by

J.W. MORTON, P.Geo.

September 17, 2002

Mincord Exploration Consultants Ltd.

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SUMMARY

The Lorraine-Jajay claims cover several significant copper-gold-PGM mineral occurrences located approximately 280 kilometres northwest of Prince George, BC. The project is situated in predominantly intrusive rocks belonging to the Triassic-Jurassic Quesnel Terrane. The large claim block currently stands at 1,082 claim units. Central to the property is a previously defined resource of 32 million tons grading 0.66 % Cu and 0.17 g/t Au. This resource is the aggregate of three historic zones.

In 2001, Eastfield initiated the most recent exploration program at the property. The program, which commenced in June, ran until the middle of October and entailed 2,508 metres of diamond drilling in 13 holes, 16.5 kilometres of induced polarization and magnetometer survey and the reconstruction of Upper Camp. Some of the highlights of the drill program include 2001-48 with 52.9m @ 0.84% Cu and 0.36 g/t Au, 2001-58 with 69.8 m @ 0.59% Cu and 0.11 g/t Au and 2001-60 with 113.2m @ 0.76% Cu and 0.49 g/t Au. Hole 2001-58 established an open direction to mineralization on the eastern boundary of the Bishop Zone while hole 2001-60 established an open direction to mineralization on the southern boundary of the Lower Main Zone. Holes 2001-58 and 2001-60 are approximately 1,400 metres distant from each other.

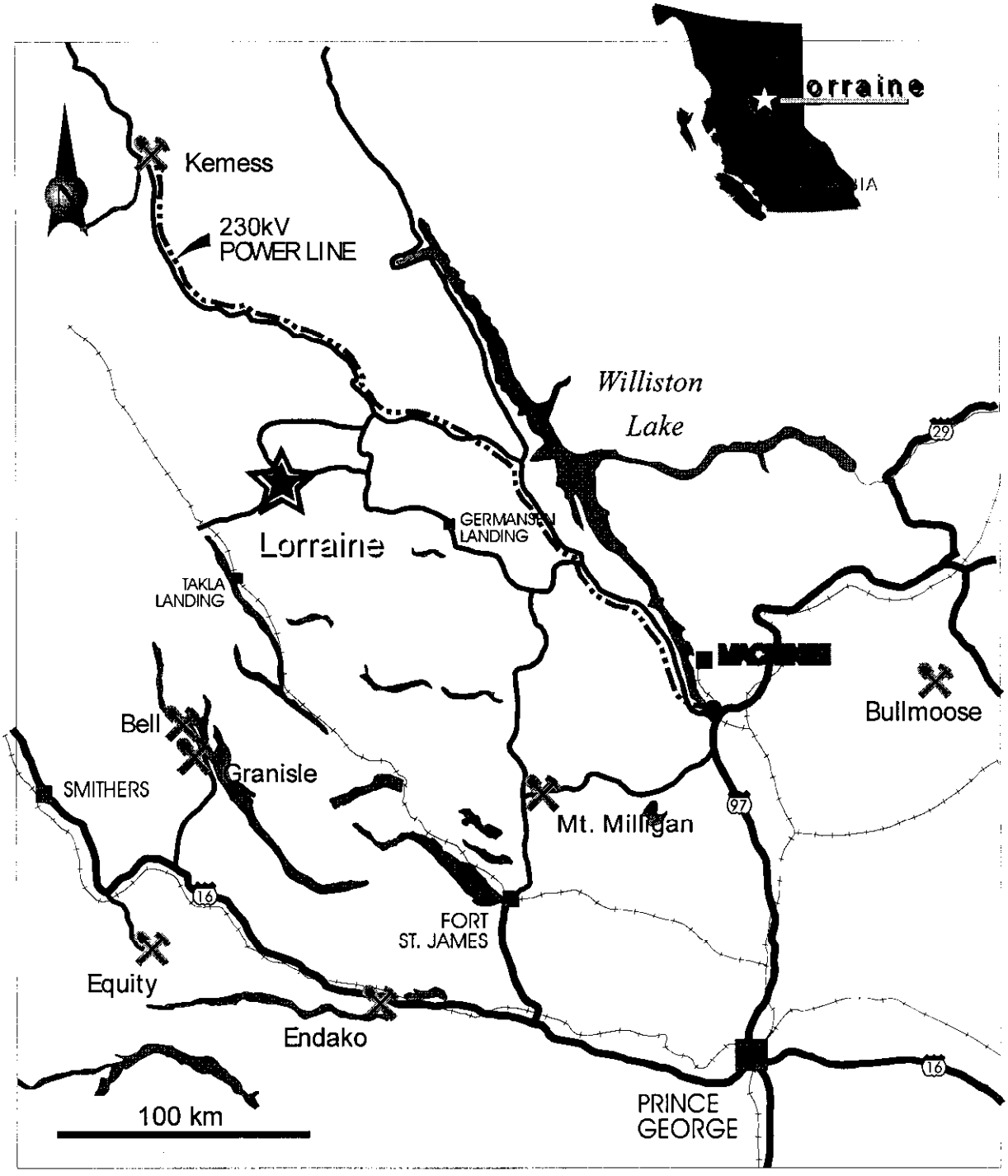
Economic factors in favour of a successful mining operation at the Lorraine-Jajay property include:

1) recently developed access to arterial road, rail and BC Hydro facilities;
2)excellent results obtained from preliminary metallurgical work indicating that good recoveries can be expected in the production of a very high grade (bornite dominant) concentrate;
3) a low environmental consequence to development owing to the low pyrite content of the ore and abundant secondary carbonate available to mitigate acid rock drainage; and
4) the polymetallic character of the mineralization includes copper, gold, silver, platinum and palladium that will afford protection from turbulent commodity price swings.

In addition to copper and gold mineralization, the Lorraine-Jajay property has potential to host significant palladium and platinum mineralization. This potential was first recognized by BP Minerals Canada in 1991 and has recently become a second major focus of Eastfield's activities. Sampling completed at the PGM rich "BM" breccia in 2000 returned analyses as high as 3.46 g/t Pd, 0.58 g/t Pt, 12.44 g/t Au and 26.32 % Cu.

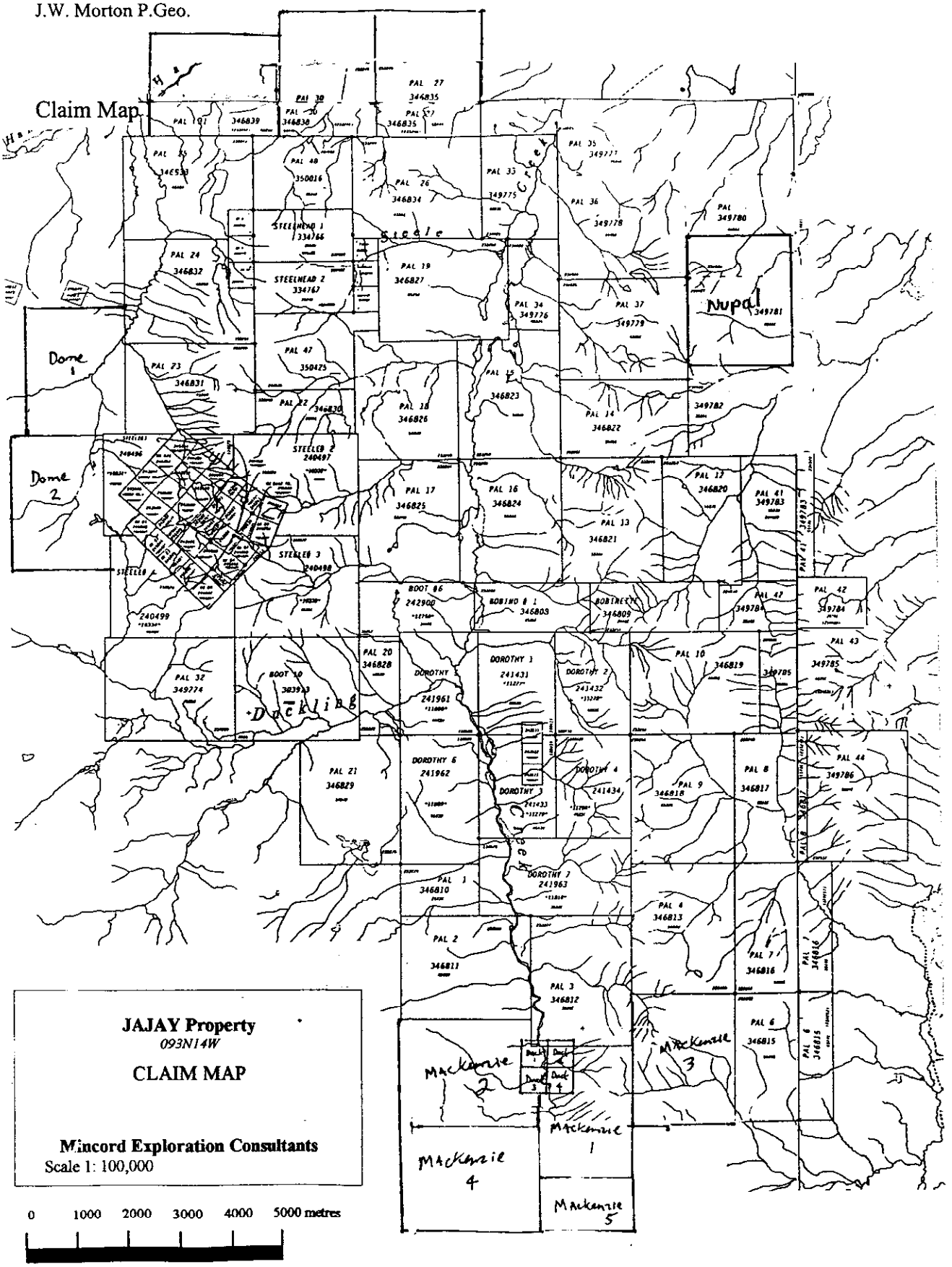
ACCESSIBILITY, CLIMATE, LOCAL RESOURCES AND PHYSIOGRAPHY

The Lorraine-Jajay property is located in the Omineca Mountains near the headwaters of Duckling Creek. This location is approximately 280 km northwest of Prince George, British Columbia. Road access to the Lorraine claims, which form the heart of the Lorraine-Jajay property, is most commonly via Fort St. James and Germansen Landing using a bush road off the Omineca Mining Road. Recent logging activity in the area has pushed industrial logging roads to within a few kilometres of the property from the



Lorraine-Jajay Logistics
Figure 2

Claim Map


Dome 1
Dome 2
Nupal
Mackenzie 1
Mackenzie 2
Mackenzie 3
Mackenzie 4
Mackenzie 5
Ducking
JAJAY Property
093N14W
CLAIM MAP
Mincord Exploration Consultants
Scale 1: 100,000
0 1000 2000 3000 4000 5000 metres

southeast (via Germansen Landing), from the southwest (via the BC rail loading facilities at Takla Lake) and from the north (via MacKenzie and the Kemess Access Corridor). One of the newly constructed roads approaches the property from the southwest using a new bridge on the Omineca River. It provides access to the BC Rail at Lovell Cove on Takla Lake where logs are shipped to Prince George. This road and bridge will be an important component to the necessary infrastructure if and when a mine is constructed on the property. A second road accesses the extreme southeastern region of the property using a new logging road branching from the Omineca Mining Road. This road extends to within a few hundred metres of the east bank of Duckling creek and was used for most of the access in the 2000 program. The property is located in a section of the interior which is truncated to the north and south by the broad, subdued river valleys of the Osilinka and Omineca Rivers, respectively. Elevations on the property range from approximately 1,000 metres (3,200 feet) on Duckling Creek to around 2,100 metres (6,900 feet) on the highest ridge tops. Pleistocene glaciation has incised a number of north and east-facing cirques, which interrupt the general north-south lineation of the topography. Cirque floors are generally found at 1,550 to 1,600 metres (5,000 to 5,200 feet) elevation. Talus development is extensive on the northern and eastern slopes, while the southern and westerly slopes are commonly vegetated. Glacial till and fluvioglacial outwash blanket the valley bottoms, limiting most outcrop exposures to streambeds below tree line. A thick growth of mature spruce, pine and balsam covers much of the lower elevation areas extending up to tree line at approximately 1,650 metres (5,400 feet) elevation.

The climate of this region of BC is typically cool and moderate with warm moist summers and cold winters. The lower elevation regions of the claims are snow free from the end of April until the beginning of November. In the highest elevation regions of the claims, winter snow may linger until the end of June and occur again any time after the middle of September. Total snowfall is not excessive.

PROPERTY DESCRIPTON AND LOCATION

The Lorraine-Jajay property covers 1,082 claim units located in the Omineca Mining Division of central BC. The claims, listed below, are all located on government (crown) land and encompass approximately 27,000 hectares (67,000 acres).

Claim Name	Record #	# units	Expiry Date	Expiry Year
Pal 1	346810	6	11-Aug	2003
Pal 2	346811	20	28-Sep	2002
Pal 3	346812	20	16-Dec	2002
Pal 4	346813	20	11-Aug	2003
Pal 6	346815	20	11-Aug	2003
Pal 7	346816	20	11-Aug	2003
Pal 8	346817	15	11-Aug	2003
Pal 9	346818	20	11-Aug	2003

Claim Name	Record #	# units	Expiry Date	Expiry Year
Pal 10	346819	20	11-Aug	2003
Pal 12	346820	15	11-Aug	2003
Pal 13	346821	20	28-Sep	2002
Pal 14	346822	15	28-Sep	2002
Pal 15	346823	20	28-Sep	2002
Pal 16	346824	20	11-Aug	2003
Pal 17	346825	20	11-Aug	2003
Pal 18	346826	20	11-Aug	2003
Pal 19	346827	20	11-Aug	2003
Pal 20	346828	8	11-Aug	2003
Pal 21	346829	20	11-Aug	2003
Pal 22	346830	8	11-Aug	2003
Pal 23	346831	20	11-Aug	2003
Pal 24	346832	20	11-Aug	2003
Pal 25	346833	20	11-Aug	2003
Pal 26	346834	20	11-Aug	2003
Pal 27	346835	20	11-Aug	2003
Pal 30	346838	20	11-Aug	2003
Pal 31	346839	20	11-Aug	2003
Pal 32	349774	20	11-Aug	2003
Pal 33	349775	12	28-Sep	2002
Pal 34	349776	8	28-Sep	2002
Pal 37	349779	20	28-Sep	2002
Pal 41	349783	15	20-Aug	2003
Pal 42	349784	12	18-Aug	2003
Pal 44	349786	20	20-Aug	2003
Pal 47	350425	15	24-Aug	2003
Pal 48	350016	12	11-Aug	2003
Bobino #1	346808	10	11 Aug	2003
Bobinette	346809	10	11-Aug	2003
Fiona	352235	1	11-Aug	2003
Isabelle	352236	1	11-Aug	2003
Suzanne	352237	1	11-Aug	2003
Steelhead 1	334766	8	11-Aug	2003
Steelhead 2	334767	8	11-Aug	2003
Sh 8	334773	1	11-Aug	2003
Sh 9	334774	1	11-Aug	2003
Sh 10	334775	1	11-Aug	2003
Lorraine 1	243499	1	17-Sep	2006
Lorraine 2	243500	1	17-Sep	2006
Lorraine 3	243501	1	17-Sep	2006
Lorraine 4	243502	1	17-Sep	2006
Lorraine 5	243503	1	17-Sep	2006
Lorraine 6	243504	1	17-Sep	2006
Lorraine 7	243505	1	17-Sep	2006
Lorraine 8	243506	1	17-Sep	2006
Lorraine 9	243507	1	22-Jun	2006
Lorraine 10	243508	1	22-Jun	2006

Claim Name	Record #	# units	Expiry Date	Expiry Year
Lorraine 11	243509	1	22-Jun	2006
Lorraine 12	243510	1	22-Jun	2006
Lorraine 1FR	245449	1	31-May	2006
Lorraine 2FR	245450	1	31-May	2006
Lorraine 3FR	245451	1	31-May	2006
Lorrex 1	243646	1	4-Sep	2006
Lorrex 2	243647	1	4-Sep	2006
GK 1	245043	1	3-Jul	2006
GK 2	245044	1	3-Jul	2006
GK 3	245045	1	3-Jul	2006
GK 4	245046	1	3-Jul	2006
GK 5	245047	1	3-Jul	2006
GK 6	245048	1	3-Jul	2006
GK 7	245049	1	3-Jul	2006
GK 8	245050	1	3-Jul	2006
GK 9	245051	1	3-Jul	2006
GK 10	245052	1	3-Jul	2006
GK 11	245053	1	3-Jul	2006
GK 18	245054	1	3-Jul	2006
GK 19	245055	1	3-Jul	2006
GK 20	245056	1	3-Jul	2006
GK 21	245057	1	3-Jul	2006
GK 109 FR	245452	1	31-May	2006
GK 110 FR	245530	1	25-Jul	2006
GK 111 FR	245453	1	31-May	2006
GK 112 FR	245531	1	25-Jul	2006
Dorothy 1	241431	12	11 Aug	2003
Dorothy 2	241432	12	28-Sep	2002
Dorothy 3	241433	12	28-Sep	2002
Dorothy 4	241434	12	28-Sep	2002
Dorothy 5	241961	12	11-Aug	2003
Dorothy 6	241962	15	11-Aug	2003
Dorothy 7	241963	18	28-Sep	2002
Dorothy #1	243511	1	11-Aug	2003
Dorothy #3	243512	1	11-Aug	2003
Elizabeth #1	243513	1	27-Aug	2003
Steele #1	240496	20	29-Apr	2003
Steele #2	240497	20	29-Apr	2003
Steele #3	240498	20	29-Apr	2003
Steele #4	240499	20	29-Apr	2003
Boot 6	242900	15	30-Oct	2002
Boot 10	303913	20	5-Sep	2003
Duck 1	371543	1	28-Sep	2002
Duck 2	371544	1	28-Sep	2002
Duck 3	371545	1	28-Sep	2002
Duck 4	371 546	1	28-Sep	2002
Mackenzie 1	372404	20	28-Sep	2002
Mackenzie 2	372405	20	28-Sep	2002

Claim Name	Record #	# units	Expiry Date	Expiry Year
Mackenzie 3	372406	20	28-Sep	2002
Mackenzie 4	372407	20	28-Sep	2002
Mackenzie 5	372408	8	28-Sep	2002
Dome 1	384003	20	13 Feb	2003
Dome 2	384004	20	13 Feb	2003
Nupal	388797	12	31 July	2003
Total		**1,074**		

Eastfield may earn up to a 75% interest in the Lorraine-Jajay property from Lysander Minerals Corporation and certain individuals. By completing $4,000,000 in exploration and making $550,000 in payments before December 31, 2005, Eastfield earns 65% and, by completing a positive feasibility study increases its interest to 75%.

There are no known environmental or aboriginal issues specific to the Lorraine-Jajay claims known to the author other than those that relate to British Columbia in its generality.

HISTORY

In the early 1900's, prospectors noted the malachite-stained bluffs of Lorraine Mountain, but it was not until 1931 that the property was first staked. The Consolidated Mining and Smelting Company Limited (later named Cominco) acquired the Lorraine property in 1943 and held it until 1947.

Kennex (a subsidiary of the Kennecott Corporation) acquired the Lorraine property in late 1947 and, in 1948, under the name of Northwestern Explorations Limited, they mapped and surface sampled the property. In 1949, five widely-spaced AX diamond drill-holes were completed on the Lorraine claims in the vicinity of the copper stained cliffs. Results from this drilling were mixed.

Regional prospecting, undertaken during the 1948 program, located copper-mineralized float on the East Side of Duckling Creek (approximately 8 kilometres distant) in what soon became the Dorothy and Elizabeth showings. Several boulders, described as being up to 4 cubic feet in volume and consisting of approximately 90% sulfide, were discovered on the Elizabeth claims. These boulders returned assays varying from 24.20% to 31.25% copper. In 1949, Northwestern followed-up this prospecting with a program of mapping, line-cutting, hand trenching and diamond-drilling. Four AX diamond-drill holes, totalling 442 metres, were drilled at the Dorothy showing. The best intersection from this program assayed 0.48% copper over 109 metres (357 feet).

Limited exploration was carried out in the area during the 1950's and early 1960's. In 1951, H. Warren and D. Barr carried out a biogeochemical survey in the Dorothy Elizabeth area. In the early 1960's Kennco Explorations (Western) Limited carried out a program of mapping, silt and soil sampling, and geophysical (IP and magnetometer)

surveys in the area, and in 1963, they drilled 2 AX diamond-drill holes (DDH DY-1, 2). Sufficient assessment work was generated by this work to hold the Dorothy 2-post claims until 1972, after which cash in lieu of work was paid to hold the property.

The Lorraine property then lay dormant until it was joint ventured with Granby Mining Company Limited in 1970. During the period 1970-73, Granby enlarged the property and carried out a major exploration program of geological mapping, rock and soil sampling, trenching and drilling. A total of 3,992 metres of diamond drilling and 2,470 metres of percussion drilling were completed on the Main Zone. By 1973, the Main zone had been sub-divided into two zones and a preliminary estimate of reserves calculated. The Lower Main zone was inferred to contain 5,500,000 tons grading 0.6% copper and 0.1 grams per tonne gold, and the Upper Main Zone was inferred to contain 4,500,000 tons grading 0.75% copper and 0.34 grams per tonne gold. A cut off grade of 0.4% copper was used in the calculations. A large area surrounding the Granby-Kennecott holdings was acquired or staked by a large group of junior and senior resource companies. Senior companies conducting exploration in the early 1970's on the site of the present Lorraine-Jajay claims peripheral to the Kennecott holdings included Noranda, Cominco, Falconbridge and Amoco Canada.

The Lorraine properties were inactive during the later years of the 1970's and through most of the 1980's. In 1989, Kennecott Canada Inc. began a reassessment of the gold-copper potential of the Lorraine and Dorothy properties. The property was expanded, and an initial orientation program was contracted to C.E.C. Engineering Ltd. in 1990. This included road rehabilitation, establishing grids, geological mapping, soil sampling, and geophysical (IP and magnetometer) surveys.

In 1991, Kennecott resumed management of the property and embarked on a twelve-hole (2,392 metres) diamond-drill program in the Lorraine area, with nine holes drilled in the Lorraine Extension (later called the Bishop) Zone. Two holes drilled were also drilled in the Webber zone and one hole drilled in the North Cirque Zone. Detailed geological mapping and petrographic studies were begun during this program. The exploration program also extended to the Dorothy / Elizabeth areas. Work consisted of road construction (from the Dorothy Duckling Creek access road to the Elizabeth Breccia area), test pitting, rock sampling, IP surveys and the diamond drilling of 6 NQ holes for a total of 961.6 metres. The first three holes were drilled at the Dorothy showing in the vicinity of Northwestern's 1949 drill-holes, the remaining three holes were drilled along the Dorothy Duckling Creek road south of Dorel Creek. The most significant intersection was in hole D91-1 which averaged 0.34% copper and 0.12 grams per tonne gold over 121 metres.

In 1993, Kennecott drilled another 2 holes (the 3rd hole was lost in overburden) in the Lorraine claims, along with detailed rock chip sampling of the Main and Extension (Bishop) zones.

In 1990, BP Resources Canada optioned several claims surrounding the Lorraine claims. This option was negotiated following the discovery of platinum and palladium mineralized float by an area prospector in 1990. In 1991, BP located the source of the mineralization in a breccia outcropping from a cliff face. In 1991, BP completed geochemical, induced polarization and minor diamond drilling northeast of the Bishop Zone as well as completing a detailed airborne geophysical survey. An expanded program was proposed for 1992 but was not completed owing to the decision of BP's parent oil company to wind down BP Resources Canada.

In 1994, Lysander Gold Corporation (now Lysander Minerals Corporation) optioned the Lorraine property from Kennecott and carried out a 10-hole diamond-drill program (1,221.4 metres), which was focussed on the western part of the Upper Main (3 holes) and Bishop (7 holes) zones. The success of this program led to the optioning of the adjacent Boot-Steele claims to protect a possible southeastern extension of the Bishop zone.

Lysander continued drilling in 1995 with a 26-hole, 3,843.53 metre program. A total of 23 holes (2,903 metres) were drilled on the Upper Main Zone proving that mineralization occurs with greater potential at depth than earlier work had suggested. Two holes were drilled in the Bishop zone in 1995 with both failing to intersect significant mineralization, suggesting that faulting is an important feature in this area. A single "wildcat" hole drilled on Jeno Ridge (above the "BM" Breccia) also failed to intersect economic mineralization. This program also successfully established the existence of a potential oxide copper resource in the weathered talus apron below the Upper Main Zone.

In 1996, Lysander optioned the Dorothy and Steelhead properties and staked the Pal claims. Initial work in 1996 on the expanded Jajay property included a geochemical program of sampling soils, talus fines, seepage sediments and rocks over the western third of the expanded property. A 10-hole diamond-drill program in 1996 probed extensions of the Upper Main Zone and reestablished extensions to mineralization in the Bishop zone. Significant intersections included hole 96-44 which cut 32.2 metres (106 feet) of 1.49% copper in this zone.

Lysander continued drilling in 1997 with an 8-hole (1,146.3 metres) program. 4 holes were drilled in the Dorothy showing, 3 holes in the Bishop zone and 1 hole in the Ato area (Bobinette claim). In the Bishop zone, hole 97-47 intersected 64 metres of 0.58 % copper and 0.24 grams per tonne gold. The geochemical (talus fines and seepage sampling) program was continued in 1997, and a limited amount of follow-up sampling was carried out. Numerous copper and gold anomalies were identified in both of the 1996 and 1997 geochemical surveys. Subsequent reanalysis of some of these samples resulted in the identification of several PGE anomalies.

In 1999, Lysander completed 3 fly-camp scale reconnaissance-prospecting surveys of three of the more obvious targets originating from the geochemical reconnaissance completed in 1996 and 1997. The most significant result of this work was the

identification of "Lorraine style" mineralization in an alpine drainage 1,000 metres south of the Bishop Zone. Evaluation here led to the discovery of several new outcrops containing significant copper and gold mineralization in potassic altered syenite and syenite-magnetite breccia. The importance of this discovery is enhanced by the fact that these exposures bear a striking similarity to mineralization that occurs at the Lorraine Upper Main Zone. Five outcrop (and rubble) samples at this discovery (named the Page Zone) averaged 0.86% copper and 0.47 gm/t gold. The Page Zone currently constitutes a prime target.

Eastfield Resources Ltd. optioned the Lorraine-Jajay property from Lysander Minerals Corporation in October, 2000. Shortly thereafter Eastfield initiated a program in the southeastern region of the claim block (the Mackenzie Zone). The program which ran until early November, 2000 entailed drilling 5 short holes totalling 378 metres and completing a 91 sample soil survey. While the drilling was unsuccessful, the soil survey outlined a significant new copper-gold anomaly which remains open-ended and which warrants additional work. In retrospect, it can be surmised that it was premature to initiate diamond drilling in this area ahead of completing soil and geophysical surveys.

In 2001, Eastfield initiated the most recent exploration program at the Lorraine-Jajay property. The program, which commenced in June, ran until the middle of October and entailed 2,508 metres of diamond drilling in 13 holes, 16.5 kilometres of induced polarization and magnetometer survey and the reconstruction of Upper Camp. A summary of significant drill intercepts is included as appendix 2 of this report. Hole 2001-58 establishes an open direction to mineralization on the southern boundary of the Bishop Zone while hole 2001-60 establishes an open direction to mineralization on the southern boundary of the Lower Main Zone. Holes 2001-58 and 2001-60 are approximately 1,400 metres distant from each other.

SAMPLE PREPARATION, ANALYSIS AND SECURITY

Drill core is taken by helicopter from the drill to the sample preparation and processing facility where it is quickly examined by a qualified geologist and marked into sample intervals. The core is then split using a mechanical splitter with half of the sample put into sample bags with a multi-digit sample number and the other half placed back in the core box in preparation for permanent on-site storage. Individual bags of core samples, generally weighing ± 5 kilograms, are collected into larger shipment bags weighing ± 30 kilograms and closed with wire or a zip lock fastener. The sample bags are then delivered to a bonded freight company in Fort St. James for shipment to the facilities of Acme Analytical Laboratories in Vancouver (samples are not accompanied with information concerning hole number or meterage). At Acme Analytical Laboratories, the samples are assayed (or analyzed) using the procedures indicated in appendix 3. Internal standards provided by Acme Analytical Laboratories are introduced into the sample stream at a rate of approximately one internal standard for every ten samples. At the conclusion of the splitting and sampling the core is examined in detail and logged by the geologist before permanent storage.

Soil and surface rock samples are handled in a similar manner excepting that no replicate sample is kept and samples are often directly indexed with a grid or descriptive location.

Sample shipments out of camp generally occur once or twice a week according to specific logistical circumstances under the supervision of camp personnel who endeavor not to leave the samples unattended until delivered to the bonded freight company.

GEOLOGY

The Lorraine-Jajay property occurs within a large intrusive complex which is itself located within a northwest-southeast trending Mesozoic depositional basin formerly referred to as the Quesnel Trough and more recently referred to as the Quesnel Terrane. The origin of this basin has been ascribed both to a rift basin and an island arc model. In the section including the Lorraine-Jajay property, the rift basin model is the most compelling. Here, the basin is approximately 40 kilometres wide and is discretely bounded by the Pinchi Fault on the west and the Manson Fault on the east. Mafic volcanic rocks including basalt and andesite (mapped as the Takla Group), commonly crosscut by pyroxenite dykes, dominate the basin infill.

The intrusive complex (The Hogem Batholith) that dominates the Lorraine-Jajay property is at least partially comagmatic with the Takla Group volcanic rocks and is comparable in age (Middle to Upper Jurassic). With the exception of the extreme eastern region of the Lorraine-Jajay property, all volcanic rocks have eroded off the edifice which is considered to now represent a deeper level of the intrusion. The complex is divided into three major phases that grade from an earliest basic phase in the northeast to a syenite middle phase in the centre and a younger granitic phase in the southwest. Opinions differ with respect to whether or not the earlier basic phase and the middle syenite phase have cross cutting relationships, implying a significant variance in ages. Opinion is consistent that the youngest granitic phase (granite to granodiorite) crosscuts both the syenite and basic phases.

The Duckling Creek Syenitic Suite is the most significant unit in the region for the occurrence of copper, gold and PGM mineralization. The Duckling Creek Syenitic Suite forms an oblate northwest trending unit approximately 35 kilometres long and averaging 8 kilometres wide. Approximately 50% of the Lorraine-Jajay property is underlain by this suite while most of the remainder of the property is underlain by the older basic phase. The youngest phase, consisting of granite to granodiorite, is restricted to cross-cutting dykes and to a small area on the southwest side of the property.

A number of unusual aspects present in the rocks of the Duckling Creek Syenitic Suite have caused some workers to predict a large alkaline intrusive body with carbonatite characteristics at depth. A discrete magnetic ring approximately 12 kilometres in diameter is associated with Lorraine and several other known areas of significant copper-

gold ± PGM mineralization. The ring was an important consideration in assembling the present property holdings. The centre of the ring, which occurs under an overburden filled valley, remains an intriguing target.

Another unusual aspect in the vicinity of mineralization is an often-foliated character to the rocks and an often-pervasive potassium-sodium metasomatism in them. On a detailed scale, rocks resembling pyroxenite can be observed essentially changing back and forth to rocks resembling syenite over distances less than a metre (sometimes over a few centimeters). Petrographic studies of the Lorraine mineralized zones indicate that potassium metasomatism in all units is typically manifested by pervasive replacement to orthoclase, microcline and biotite while sodium metasomatism is manifested by plagioclase replacement to albite and augite pyroxene conversion to aegirine pyroxene (i.e. calcium replacement by sodium). The most comprehensive petrographic study at Lorraine (Koo, M.Sc., UBC 1968) concludes that the parent rocks within the resource area were primarily dioritic and that the current "syenite" units are predominantly secondary. This hypothesis goes on to speculate that a blind, alkali enriched, intrusive responsible for the pervasive metasomatism at Lorraine (termed fenitization by Koo) is also the likely candidate for the source of the copper and gold mineralization.

Some workers have attributed this variability more to migmitization arising from emplacement of the complex at great depth within a regime fostering ductile deformation than to metasomatism.

MINERAL RESOURCES

In 1998, G.R. Peatfield, Ph.D., P. Eng. computed a then-current resource for Lysander Gold Corporation (now Lysander Minerals Corporation). Mr. Peatfield's methodology consisted of using a series of level plans constructed on 10 metre increments to compute new resources present within the Upper Main and Bishop Zones. The smaller Lower Main Zone, with a published resource originating from earlier Granby Mining and Kennco work, was added to his new calculations. The sum of these resources, excerpted from the Peatfield report in the 1997 annual report for Lysander Gold Corporation (published ahead of the annual meeting dated May 28, 1998) is as follows:

Zone	**MM Tonnes**	**Cu (%)**	**Au (g/t)**
Upper Main (Measured and indicated)	11.89	0.71	0.26
Upper Main (Inferred)	3.96	0.70	0.25
Bishop (Measured and indicated)	7.72	0.64	0.07
Bishop (Inferred)	2.87	0.62	0.05
Lower Main	5.50	0.60	0.10 *(gold analysis incomplete)
Total	**31.94**	**0.66**	**0.17**

31.94	**0.66**	**0.26** (adjusting to reflect population with Au and Cu determinations)

Peatfield noted in his 1998 report that the three zones in his resource calculation are all open for expansion (in at least one direction). A recent review of drilling by this author indicates that several holes in the Upper Main and Bishop Zones are not effectively cut off at depth, offering a further opportunity to expand the mineral resource. It is also noted that a significant area between the Upper and Lower Main zones remains untested. No resources have been attributed to several additional potentially economic drill intercepts in other mineralized areas that occur on the larger claim group (example: Dorothy drill hole 49-D-2 that intersected 357 feet grading 0.48% copper).

MINERALIZATION

The Duckling Syenitic Suite is by far the most significant unit for economic metal mineralization (copper-gold and PGM) on the Lorraine-Jajay property. The greatest concentrations of copper minerals, dominantly bornite and chalcopyrite with lesser chalcocite and covellite, occur in "syenitic" rocks and to a lesser extent in pyroxenite and diorite. Pyrite is generally rare or absent while magnetite is usually ubiquitous. Gold content shows a positive correlation with "syenitic"-hosted copper mineralization while PGM mineralization is positively correlated with pyroxenite. Mineralization is dominantly disseminated versus fracture controlled, and the mineralizing event shows evidence of having been long-lived and dynamic and, at least in part, magmatic. Evidence for the long-lived character of the mineralizing event is offered by the range of ductile and brittle deformation zones with which it is associated and fault effects which both control and truncate mineralization. Evidence for the magmatic origin of mineralization is offered by its character of occurrence as blebs and "net textured" semi-massive sulfide in pyroxenite. Mineralization in the Lower Main Zone is sometimes hosted by an unusual syenite migmatite in which anastomosing arrays of pink potassium feldspar rich bands and dyklets encompass and envelop a biotite-pyroxene mafic phase. This style of mineralized rock gives an impression that mafic rock was brecciated, invaded with a younger "syenitic" differentiate and then subjected to ductile deformation.

On Jeno Ridge, 1,200 metres south of the Bishop Zone, a clast-supported breccia with a matrix dominated by bornite and chalcocite occurs on a 50-metre exposure of cliff face (the "BM Breccia"). This mineralization (matrix to the breccia) is extremely high grade and often is in excess of 10% copper with 10 to 18 g/t gold and 1.0 to 3.5 g/t palladium. On a hand specimen scale, mineralized rock here is divided into bands of potassium feldspar plus albite which are gradational to bands dominated by mafic minerals. Included in the mafic minerals are diopside, biotite, apatite and garnet. Opaque minerals (copper sulfides) and magnetite are intergrown with and form a matrix to the mafic minerals. Minor bismuth telluride occurs within bornite. Pyrite is notably absent, implying a low sulfur system. The petrology here suggests that the mineralization is hosted within the mafic portion of a

compositionally banded intrusion and is primary in part and replacement in part. The major significance of this mineralization will be realized when the larger source of the magma represented in the breccia is located.

Mineralization occurring in the younger granitic rocks of the Hogem Batholith is generally of lesser importance. Two exceptions from this generalization are worth commenting on. Firstly, an area of copper-molybdenum mineralization was located in 1999 immediately to the north of the Steelhead claims. This mineralization, which is relatively low grade at the discovery outcrop, was found while following up several strong copper in talus fines and seepage samples. The full significance of this mineralization has not yet been determined. Secondly, and possibly of greater importance, is the gold analysis obtained from a granitic dyke occupying the last 2.6 m of hole 95-27 drilled in the Upper Main Zone. The dyke (which extends to the bottom of the hole and may have a greater width) graded 4.79 g/t gold. It may be indicative of a gold mineralizing event associated with this phase.

DEPOSIT TYPES

The setting of the Lorraine-Jajay property within a probable rift basin dominated by intrusive materials of mantle derivation lends itself to analogies with many world class deposits containing large resources of copper-gold and platinum group metals. Additional comparisons can also be made to other deposits containing mantle-derived accumulations of copper-gold mineralization in association with large volumes of iron oxide. A brief list of possible analogies is as follows:

Galore Creek, BC.	284 million tons @ 0.67 % Cu and 0.44 g/t Au
Ernest Henry, Australia.	122 million tons @ 1.1 % Cu and 0.6 g/t Au
Phalaborwa, South Africa.	~ one billion tons @ 0.65 % Cu (plus Au &Pd)
Afton, BC. (now DRC Resources Ltd.)	31 million tons @ 1.10 % Cu and 0.58 g/t Au

DISCUSSION

Previous to the 2001 program mineralization at Lorraine was envisioned as three discreet mineralized zones (example: Upper Main Zone) each grading into unmineralized material as the strength of the zone weakened. The zones were thought of as independent from each other. Work completed in 2001 has resulted in a somewhat different concept in which the existing zones of mineralization can be envisioned as areas within a single mineralized system where post-mineral intrusion or faulting has not reduced the cohesiveness of mineralized blocks. At the edges of the existing zones mineralization does not weaken but becomes dislocated or disrupted. Mineralization can often be reestablished by moving across or underneath post mineral intrusive or across offsetting faults. The largely unexplored areas separating the historic zones are now interpreted to offer greater potential than previous interpretation would have. Likewise open boundaries of the historic zones such as the open eastern edge of the Bishop Zone and the open southern edge of the Lower Main Zone offer greater opportunities for expansion.

Most of the 2001 drill holes were either vertical holes or -45° to -50° inclined holes drilled on an azimuth of 045°. While the inclined drill holes drilled at 045° have generally worked well (particularly in the Bishop Zone) this azimuth may not work well in areas where the structural bias defining the zones is not orthogonal to this attitude. One other problem, which has resulted from azimuth 045° drill holes, is convergence with a prominent unmineralized dyke set which trends at 20° (± 5°).
Work is in progress to define the geometry of the most cohesive blocks of mineralization.

RECOMMENDATIONS

At the beginning of the 2001 program, the predominant objective of the project was to push the edges of the published resource of 32 million tonnes towards a target of + 50 million tonnes. As the 2001 program evolved, it became apparent that the three zones constituting the resource: Upper Main; Lower Main; and Bishop, showed evidence of coalescing (example: hole 2001-57). At the same time, holes 2001-58 and 2001-60 established open vectors of mineralization along the eastern boundary of the Bishop Zone and southern boundary of the Lower Main Zone. It was obvious that the overall boundaries of the mineralized system were unknown. Given that a much larger prize might be at hand, it was prudent to re-focus efforts towards confirming the overall limits of the mineralized system in a more broad-based approach rather than committing the bulk of the budget resources to detailed stepout drilling. Continuing work should focus on attempting to quantify the overall limits to a much larger system. Key components of ongoing copper-gold exploration should include:

1.) The access road to the camp from the Omineca Mining Road should be repaired. Use of this road in 2001 aggravated some of the problem areas where wet or rocky conditions repeatedly damaged the camp ¾ ton truck. In order to fix this problem it is recommended that a small bulldozer with a backhoe and a bucket (i.e. John Deere 450) working for a few days with a small dump truck, fill the worst areas with coarse gravel excavated in the pine flats north of Lower Camp. While this equipment is available, some trenching should be completed at the Eckland Zone.

2.) In 2001, induced polarization and magnetometer surveys were suspended on All Alone Dome due to thick bush without cut lines. Late in the 2001 program, after the geophysical contractor had vacated the property, these lines were cut. This area should now be surveyed (± 5km). Several lines of induced polarization and magnetometer survey (± 5km) should be completed orthogonal to the (apparent) surface trend of the mineralization intersected in holes 2001-48 and 60 (i.e. orient IP lines 085°). Three more lines of IP (± 2 km) should be completed east of line 700 W in the Bishop Zone.

3.) Diamond drilling should reconvene to explore the limits of the mineralized system and to add to the current resource estimate. Cost efficiencies will occur as a consequence of having kept a drill on site. Seven drill platforms constructed in 2001 remain to be used. The drill is presently sitting on the platform built for hole 2001-60, an area where four to six holes could be completed in a winter program.

Time constraints in 2001 prevented much effort from being directed towards PGM exploration. A small soil sampling program and two lines of induced polarization survey

were completed to the south of the BM Breccia. Two hand dug soil pits were established in this area without exposing bedrock. In 2002, a comprehensive program should be initiated that will more succinctly establish the higher priority PGM target areas on the large property. As an example, private information obtained from a previous operator in the area conducting regional exploration in the late 1980's indicates that Wasi Creek, which drains the claim group to the northeast, produced a very high PGM result. Wasi Creek is not a watershed draining any of the currently known PGM occurrences or anomalies on the property. Key components of ongoing copper-gold exploration should include:

4.) Assemble all of the 1996, 1997 and 1999 talus fines results in one database and complete the analysis of PGM values for samples for which determination has yet to be completed. The results for all talus fines should also be reviewed in detail noting anomalous concentrations of PGM pathfinder elements such as nickel and chromite in addition to palladium and platinum.

5.) Complete a heavy mineral sampling program at strategic locations within the watersheds of the claims either using conventional heavy mineral techniques or producing concentrates from large samples in a placer gold cleanup jig.

6.) Expand the soil and induced polarization grid and survey started in 2001 on the (extensive) southeast facing tableland southeast of the "BM" Breccia cliff face. This area should also be subjected to diligent prospecting and hand trenching.

7.) Explore and prospect in detail the PGM talus fines anomalies that presently exist. One strong anomaly exists upslope in a northeasterly direction from above the Page Zone around the topographic nose to the Bishop Zone (below Copper Peak). Another anomaly exists in the talus fines line extending northeasterly on the north side of the valley where the Bishop Zone is located.

COST STATEMENT

Period	Personnel (see code)	Number people in camp	# Days	Field Assistant(s) & Cook costs	Geologist(s) costs	Food & Supplies	Camp Rental	Generator Rental	Equipment Rental	Truck Costs	ATV Rental GC	ATV Rental Mincord	Freight	Sat Phone	Helicopter	Scheduled Air	Drill (Include Assay)	Daily Total Dollars	Cumulative Total Dollars
Prepratory																			
June 15-June 28													$3,000					$3,000	$3,000
Assemble Equipment	Freight (To Ft. St. James)																	$4,000	$7,000
Plan Drill Sites	Gological				$4,000														$7,000
																			$7,000
Initiate Field													$3,000					$3,000	$10,000
	Freight to camp																	$10,000	$20,000
	Fuel purchase																	$4,140	$24,140
	Lumber purchase									$120								$1,670	$25,810
June 27, 2001	FL, GC, JC, (Richard C),BM		1	$1,100	$450					$600	$500			$200		$600		$13,568	$39,378
June 28-July 2	FL,GC,JC,DH,JP	5	5	$5,375	$2,250	$1,918	$1,375	$250	$500	$480	$400			$160	$8,897	$600		$18,857	$58,234
July 3-July 6	FL,GC,JC,DH,JP	5	4	$4,300	$1,800	$520	$1,100	$200	$400										$58,234
Erect camp																			$58,234
Start Drill sites																			$58,234
																			$58,234
																			$58,234
																			$58,234
																			$58,234
																			$58,234
July 7-July 15	FL,GC,JC,DH,TF, JP,BM	7	9	$12,375	$8,100	$1,638	$2,475	$450	$900	$1,080	$900			$360	$8,535			$36,813	$95,047
																			$95,047
																			$95,047
																		$29,000	$124,047
																		$0	$124,047
																		$0	$124,047
																		$0	$124,047
																			$124,047
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																			$124,047
																			$124,047
Drilling																			
(pad construction)		7	2	$3,250	$900	$364	$550	$100	$200	$240	$200	$100		$80	$5,100			$11,084	$135,131
Aug 1-2	FL,GC,JC,DH, RN,TF,JP																		$135,131
																		$6,000	$141,131
Don Sharp Soil contract																			$141,131
																			$141,131
Drilling		12	10	$16,250	$4,500	$3,120	$2,750	$500	$1,000	$1,200	$1,000	$500	$4,000	$400	$6,800			$67,200	$109,220 $250,351
Aug 3- Aug 12	FL,GC,JC,DH,TF, RN,JP(4Drill)	8	3	$4,875	$2,700	$624	$825	$150	$300	$360	$300	$150		$120	$2,550	$600			$13,554 $263,905
Aug 13-Aug 15	FL,GC,JC,DH,TF, RN, JP,GG	7	3	$5,475	$1,350	$546	$825	$150	$300	$360	$300	$150		$120	$2,550				$12,126 $276,031
Aug 16-Aug 18	FL,GC,JC,TF,RN,JP,GG	7	4	$4,776	$3,600	$728	$1,100	$200	$400	$480	$400	$200		$160	$3,400				$15,444 $291,475
Aug 19-Aug 22	FL,GC,JC,TF,JP, RN, BM	11	2	$2,388	$1,800	$572	$550	$100	$200	$240	$200	$100		$80	$1,700				$7,943 $299,418
Aug 23-Aug 24	FL,GC,JC,TF, RN, JP, BM, (4 drill)	10	5	$5,970	$2,250	$1,300	$1,375	$250	$500	$600	$500	$250		$200	$4,250			$52,500	$69,945 $369,363
Aug 25-Aug 29	FL,GC,JC,TF, RN, JP, (4 drill)																		

Personnel and Cost Code

Field Assistant	Larocque (FL)	$275
Field Assistant	Charbonneau(JP)	$275
Field Assistant	Charbonneau (GC)	$275
Field Assistant	Hjerpe (DH)	$250
Cook firstaid attendant	Fuhre (TF)	$300
Geologist	Page (JP)	$450
Geologist	Morton (BM)	$450
Geologist	Garratt (GG)	$450
Geologist	Peatfield (GP)	$500
Field Assistant	Richard Ney (RN)	$250

AUTHOR QUALIFICATIONS

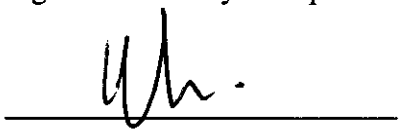
I, **J.W. (Bill) Morton** am a graduate of Carleton University Ottawa with a B.Sc. (1972) in Geology and a graduate of the University of British Columbia with a M. Sc. (1976) in Graduate Studies.

I, **J.W. (Bill) Morton** have been a member of the Association of Professional Engineers and Geoscientists of the Province of BC (P.Geo.) since 1991.

I, **J.W. (Bill) Morton** have practiced my profession since graduation throughout Western Canada, the Western USA and Mexico.

I, **J.W. (Bill) Morton** supervised the work outlined in this report.

Signed this 15 day of September, 2002



J.W Morton P.Geo

Property: Lorraine	Total Length: 205.13	DIP TESTS		Start Date: August 5, 2001
Grid Cord:	Core Size: BQTW	Footage (m) / Dip Measured / Dip Corrected		Completion: August 6, 2001
Elevation: 1631 m	Azimuth: 47° (GPS corrected)	Failed		Logged By: Jay W. Page
Section:	Inclination: -45°			Date logged: August 6-13, 2001

NOTES: Lower Main Area. GPS Location (corrected): UTM 347332.8 E 6200596.1 N (NAD 83) PAD: "R"

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
0	3.35	CASING										
3.35	21.64	MESOCRATIC SYENITE - pink-grey syenite with several biotite magnetite sections. Variable with gradation between pink, pink-grey and dark migmatite sections. Mafics appear to have been pervasively replaced by biotite. Mafic fabric, defined by thin layers and migmatite wisps is at 30° to 45° to core axis. Most of interval is grey-pink syenite formed of medium to coarse grained k-feldspar with cloudy sections of finer grained biotite and grey k-feldspar + plagioclase.										
		3.35 - 6.40 Broken but largely complete interval of pink to grey-pink syenite mafics mostly fine flakes of biotite forming clots and irregular patches with chlorite, some patches to 2 cm. In migmatite-rich sections, biotite comprises up to 60% of core. Traces of limonite on some low angle fractures. Core is very magnetic. Malachite very common on most fracture faces, both as acicular patches of radiating needles, and as small irregular spots disseminated through core. Many grain boundaries appear rusty. Interval includes several small patches of tiny disseminated pin-heads of pyrite, some spots may be chalcopyrite.	C 117001	3.35	6.40	3.05	95	3064	163	1.9	4	5
		6.40 - 9.45 Interval broken in spots but with good recovery. Pink syenite with 50-60% migmatite-rich parts. Foliation defined by biotite-rich migmatite wisps and layers is at 45° to core axis but ranges 30° to 60° to core axis. Some of the k-feldspar is orange-red coloured. Mafic-rich patches to 4 cm in size, larger patches often chlorite-rich also. Fractures are commonly coated with malachite and minor limonite. Tiny disseminated spots of malachite very common, perhaps 1/2% and probably often after chalcopyrite. Grey coloured areas contain 1-2% magnetite. Also about 1% soft light yellow coloured small spots probably minor clay. Also minor epidote as small irregular spots. Traces of pyrite in mafic centres.	C 117002	6.40	9.45	3.05	99	2641	103	1.4	< 2	4
		9.45 - 12.50 Run begins with several small 4-6 cm intervals of biotite-chlorite altered pyroxenite. Contacts with coarse pink syenite are sharp but irregular, average about 60°, no sulphides seen in pyroxenite. Syenitic part of run is mixture of patches of grey syenite in orange-colored syenite. Grey syenite is mineralized with 0.5 to 1% disseminated chalcopyrite, orange syenite has very little sulphide. Both contain 1-2% magnetite. High angle fracture at about 11.00 is malachite coated.	C 117003	9.45	12.50	3.05	99	1199	39	0.5	< 2	4
		12.50 - 16.15 Grey-pink varying to orange-grey syenite, run begins with competent core with good recovery but becomes more mafic (fine-grained	C 117004	12.50	16.15	3.65	92	1121	170	1.0	4	3

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		biotite) rich and broken towards bottom of run, also has more irregular small patches of orange syenite. A low angle (10-15° to core axis) fracture contains malachite and a speck of specular hematite. A few broken pieces of core contain small specks of malachite. Otherwise no sulphide mineralization seen. Continuing magnetite-rich (1-3%).										
		16.15-19.51 Banded pinkish-orange and grey syenite. Grey bands are defined by fine to medium grained biotite and mostly grey feldspar while pinkish-orange areas are dominated by coarse-grained k-feldspar with less (10-20%) grey feldspar and biotite. Magnetite common throughout. Minor amounts (0.1-0.2%) chalcopyrite is found as disseminated tiny specks more commonly in areas / bands dominated by biotite and grey feldspar. Some specks are green coloured malachite larger patches of mafics (to 1 cm) are largely altered to chlorite. All of the mafics, magnetite, and sulphides are interstitial to coarse k-feldspar. Mafic-grey feldspar banding is at 45-60° to core axis.	C 117005	16.15	19.51	3.36	99	1437	49	1.1	2	3
		19.51-21.64 As above, but with more irregular patches and veining of orange k-feldspar. Amount of chlorite has increased, both as small spots and as larger (about 0.5 cm) mafic alteration centres. Overall, core has become more dominated by grey-mafic rich area. Minor disseminations of chalcopyrite and pyrite. Magnetite continuing common.	C 117006	19.51	21.64	2.13	98	527	50	< .3	3	6
21.64	29.67	BIOTITE PYROXENITE - several sections of pyroxenite separated by up to 2 metre intervals of grey-pink mafic rich (biotite-chlorite) syenite: 22.16-24.06, 25.08-26.18. Grey-pink syenitic sections are as described above. Remaining bi-"pyroxenite" rich areas are largely chlorite with 20-30% aggregates of fine to medium grained biotite filling interstitial positions. There is a variable amount of grey to pink-coloured medium-coarse grained feldspar (5 to 30%). In some short (30-40 cm) intervals the coarse feldspar crystals are prominent enough to give an okiocrystic appearance. A banded or layered fabric is defined by concentrations of biotite cutting core axis at 45° to 60°, approximately the same as the above syenite body.										
		21.64 - 24.06 As described above. Run begins with 0.52 m of biotite-pyroxenite, followed by 1.90 m of pink-grey syenite. Pyroxenite does not have any sulphide mineralization, however, the pink-grey syenite interval comes locally up to 1% fine, disseminated pyrite and chalcopyrite, although average amount is much less. Mineralized intervals about 10-20 cm long contains malachite specks.	C 117007	21.64	24.06	2.42	98	1241	94	0.5	4	7
		24.06 - 26.21 A section of bi-pyroxenite with blotchy coarse k-feldspar patches, and an interval from 25.80 to 26.18 of pink syenite has large (to 8 cm) patches of epidote-chlorite - with minor biotite. Appear to be replacements of mafic-rich spots. Trace pyrite, magnetite common.	C 117008	24.06	26.21	2.15	100	22	2	< .3	6	< 2
		26.21 - 29.67 Biotite-pyroxenite as described above, most of pyroxene is altered to fine grained felted masses / aggregates of biotite-chlorite.	C 117009	26.21	29.67	3.46	98	652	20	< .3	7	2

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		Patches of pink, grey and orange k-feldspar to 2 cm wide are common but are not uniformly distributed. Continuing highly magnetic. Minor amounts of very fine-grained stringers of carbonate are common, perhaps 1% or less. No sulphides seen in bi-pyroxenite.										
29.67	74.00	MESOCRATIC SYENITE - grey syenite with medium-grey equigranular pink-red-brown k-feldspar, grey k-feldspar, which combined comprise about 65% of mode. 2-5% plagioclase is cloudy and partly clay altered. Mafic component is of variable grain size, 15-25% of core, and composed almost entirely of biotite and chlorite. Biotite is very common as finely disseminated individual flakes and as small clusters. Large irregular shaped mafic centres are generally elongate, often give sense of biotite-chlorite pseudomorphs after a coarse-grained interstitial pyroxene / amphibole. Mafic centres commonly have core of fine-medium-grained biotite with variable alteration to / surrounded by green chlorite. Minor epidote and calcite also associated with mafic patches. Bornite occurs in altered mafic centres, in amounts to 1%, generally as very irregular shaped blebs within mafic centres. Chalcopyrite is found as tiny fine-grained disseminated blebs within k-feldspar rich areas, often associated with epidote spots. Covellite noted as trace amounts associated with bornite. Core is very magnetic as tiny disseminated blebs, occasionally as stringers.										
		29.67 - 33.26 Grey syenite as described above. Some orange k-feldspar bands / streaks appear as alteration envelopes along low angle (10-20°) irregular fractures now marked by thin (< 1 mm) threads of calcite. Little, if any sulphide mineralization associated with orange k-feldspar patches / envelopes. Coarse-grained k-feldspar sections in general poorly mineralized. Finer-grained sections of grey syenite are well mineralized with 1-2% fine disseminated chalcopyrite, about 0.25% bornite with altered mafics and / or chalcopyrite blebs. Dark cloudiness of grey syenite in due to very fine-grained magnetite and biotite. In places the biotite appears to form vague patterns, bands (usually at steep angles 60-90° to core axis).	C 117010	29.67	33.26	3.59	100	8348	195	5.5	3	3
		33.26 - 36.88 Grey to grey-pink syenite as described above. Continuing well mineralized 1-15% chalcopyrite, bornite has increased to average 1/2%, locally to 1%. Grey-biotite rich areas are slightly more distinct as wispy areas with pink syenite between. From 33.83 to 34.95 there is a magnetite breccia with mineralized grey syenite as clasts to 5 cm and a matrix of coarse (?) grained magnetite which contains disseminated blebs of chalcopyrite and bornite. Magnetite matrix forms up to 75% core in some spots.	C 117011	33.26	36.88	3.62	99	15410	364	10.0	< 2	4
		36.88 - 39.93 Grey syenite as described above. Well mineralized with up to 5% chalcopyrite evenly distributed as disseminated blebs in both felsic and mafic fractions. Bornite to 1% is mainly within the larger mafic patches. The mafics are mixtures of biotite and chlorite. Chalcopyrite also forms portions of 1 mm calcite veinlets at 35-40° to core axis. Core contains	C 117012	36.88	39.93	3.05	100	15631	1114	11.5	7	11

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		1-2% calcite, minor amounts of covellite associated with bornite. 2-4% magnetite evenly distributed through interval gives strong magnetic character to core.										
		39.93 - 42.98 Grey syenite as described above. Interval is cut by some low angle (10° to core axis) irregular fractures with chlorite partings. Tenor of mineralization decreases toward bottom of run. Chalcopyrite is 1/2 - 1%, bornite to 0.1 to 0.25% . Blebs of sulphide are also smaller (fewer large blebs) than above. Trace covellite.	C 117013	39.93	42.98	3.05	96	11086	778	8.6	7	7
		42.98 - 46.33 As described above, but more broken up with low angle chloritic fractures. Darker appearance. Mineralization continues to decrease to <1% combined chalcopyrite and bornite, ratio of chalcopyrite to bornite increasing in favor of chalcopyrite. Amount of magnetite has also decreased significantly - parts of this interval are not magnetic.	C 117014	42.98	46.33	3.35	95	6449	249	3.7	4	3
		46.33 - 48.27 As above, interval is quite broken and reduced to rubble in spots. Rubble is limonitic. Competent sections continuing grey syenite with above 1 - 1 1/2% combined chalcopyrite and bornite. Chlorite-rich low (5-15° to core axis) angle fractures through most of interval.	C 117015	46.33	48.27	1.94	90	6706	313	3.7	< 2	2
		48.27 - 50.29 As above, but more broken chlorite-rich rubble. Chalcopyrite noted on some chloritic fracture faces. Grey-pink syenite is well mineralized in competent bits of core between fractures. 1-2% chalcopyrite and 1/2% bornite.	C 117016	48.27	50.29	2.02	90	6881	215	5.0	< 2	3
		50.29 - 53.34 As above, interval grades from chlorite-rich rubble to competent grey-pink syenite over 1.5 metres. Syenite is mineralized with 1-3% chalcopyrite 0.25% bornite. Several fine-grained envelopes surround 1 mm k-feldspar veinlets at 45-60° to core axis. These do not appear to have either more or less chalcopyrite. No bornite noted.	C 117017	50.29	53.34	3.05	99	7364	139	4.4	< 2	3
		53.34 - 56.08 Biotite syenite as above, with a darker grey tone, dark greenish colour due to chlorite coatings on fracture faces which core has split along. Less chalcopyrite than above 1/2-1%.	C 117018	53.34	56.08	2.74	99	4797	152	3.2	2	3
		56.08 - 59.53 As above, interval begins with 1.5 metres of chlorite-rich "dirty" grey syenite, then grades into grey-pink coloured biotite syenite as described several runs above. Chalcopyrite noted on some fracture surfaces with powdery coatings of chlorite, otherwise up to 1% as disseminated blebs. Local concentrations reach 5% over 2 cm. Pyrite also as disseminated blebs to locally 1%. Lower part of interval contains 0.25 to 0.5% bornite and 1% chalcopyrite.	C 117019	56.08	59.53	3.45	99	9421	235	8.2	< 2	3
		59.53 - 62.96 Pink syenite with slightly coarser grain size than above. Includes several grey syenitic sections. Core is cut by a number of 1-2 mm calcite veinlets at 45° to core axis which carry blebs of chalcopyrite. Dark chlorite-rich sections (25-35%) have little if any magnetite, poor grey section have 3-5% magnetite. Run ends with a bleached-looking section.	C 117020	59.53	62.96	3.43	98	4688	247	2.9	3	5
		62.96 - 65.69 As above, run begins with bleached-looking fracture surfaces then chlorite rich, ending with grey-pink syenite. Chlorite-rich section produced about 20 cm of rubble. Grey syenite contains about 1%	C 117021	62.96	65.69	2.73	95	9669	339	9.1	2	3

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		chalcopyrite and traces of bornite. Bottom of interval (last 30 cm) is more mafic rich with about 20% chlorite and biotite, most k-feldspar is grey coloured a few 45° to core axis fractures have thin coatings of blebs of chalcopyrite. 1-3% carbonate plus occasional low angle 10-20° to core axis 1 mm carbonate veinlets.										
		65.69 - 70.41 Grey meso-cratic biotite syenite varying to grey-pink syenite in a few short intervals. Disseminated blebs of chalcopyrite to 2%, minor bornite associated with blebs of chalcopyrite. Chlorite-carbonate coated fractures common on low angles about 10° to core axis. Several 1-2 mm k-feldspar (pink) veinlets at 45 to 90° to core axis.	C 117022	65.69	67.36	1.67	100	9269	707	7.2	< 2	3
			C 117023	67.36	70.41	3.05	100	7098	173	4.4	2	4
		70.41 - 74.00 Grey-pink syenite as described above. Disseminated chalcopyrite varies from 1-3%, minor bornite forms minor amounts to 1/2%. Several percent magnetite gives strong magnetic character. 1-2% carbonate as fine-grained interstitial fillings.	C 117024	70.41	74.00	3.59	100	6996	214	5.2	4	4
74.00	74.75	BIOTITE PYROXENITE - pyroxene completely altered to mixture of chloritie and biotite (both as very fine grained, and as coarse grained flakes).										
		74.00 - 74.75 First 26 cm are in 50% mixture of bi-pyroxenite and 50% syenite last 49 cm are bi-pyroxenite. Syenitic fraction is equigranular and coarse-grained. Chalcopyrite as disseminated irregular blebs forms 1-5% of interval. More chalcopyrite in pyroxenite than in syenite. No bornite seen in pyroxenite, minor amount in syenite. Both very magnetic, magnetite 2-5%, local concentrations to 10%. Relatively high amount of carbonate about 2-3%.	C 117025	74.00	74.75	0.75	100	6945	259	4.7	9	22
74.75	149.77	MESOCRATIC SYENITE - greyish-pink syenite with variable grey colour tone due to variable amounts of magnetite, fine grained biotite and chlorite-altered (pervasive) unidentified mafics, and grey-coloured k-feldspar. Well mineralized with disseminated irregular blebs of chalcopyrite in amounts of 1 3%, many blebs are large, very irregular and give appearance of several blebs in contact with each other. Bornite to 1/2% is also very irregular in shape, almost always in contact with chalcopyrite. Traces of covellite in contact with bornite. Variable magnetism due to magnetite forming wisps and patches. Trace amounts of carbonate. Pyrite forms local concentrations at 1/2%. Carbonate generally in trace amounts except in 45° to core axis stringers with chalcopyrite. K-feldspar forms orange-colored envelopes 1-2 mm wide along fractures now marked by carbonate veinlets.										
		74.75 - 77.17 Grey-pink syenite as described above, with 2 or 3 quartz veins to 4 cm thick and at 60° to core axis. Minor carbonate with quartz. No mineralization associated with quartz vein.	C 117026	74.75	77.17	2.42	100	4771	505	5.1	8	9
		77.17 - 79.55 Continuing grey-pink syenite with up to 2-3% chalcopyrite and 0.25-0.5% bornite; both as disseminated blebs. Larger blebs	C 117027	77.17	79.55	2.38	100	4841	277	3.2	5	5

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		associated with degraded mafic centres and magnetite rich areas.										
		79.55 - 82.60 As described above. Continuing about 1% chalcopyrite 1/2% bornite. Small, 1 mm thick fractures 45 - 90° to core axis carry chalcopyrite and hematite.	C 117028	79.55	82.60	3.05	100	9274	519	6.6	7	7
		82.60 - 85.65 As above, but with several low angle (0-15° to core axis) carbonate filled fractures. Grey syenite contains less sulphide mineralization than above, 1/2% chalcopyrite, minor bornite.	C 117029	82.60	85.65	3.05	100	5147	98	3.6	3	3
		85.65 - 88.70 Grey-pink syenite as above. Variable sulphide mineralization averages between 0.5 and 1% chalcopyrite with possibly some pyrite. Cloudy-chalky looking grey feldspars suggest clay-altered plagioclase in amounts about 10%, greater than previously thought.	C 117030	85.65	88.70	3.05	100	3315	123	1.7	2	4
		88.70 - 91.74 Pink and grey syenite as described above, pink tones becoming dominant with somewhat less chalcopyrite than above, about 1/2% . Grain size has increased, some k-feldspar to 2 cm. Fine-grained biotite forms vague lineations at 20 to 30° to core axis. Small amount of fine grained muscovite. Chalcopyrite with minor bornite occurs as disseminations to 1/2%. Magnetite forms streaks and patches of up to 20% magnetite.	C 117031	88.70	91.74	3.04	100	3014	82	2.0	< 2	3
		91.74 - 94.79 As above, with powdery carbonate on some low angles 10-15° to core axis fractures. Chalcopyrite averages about 1%, bornite almost always associated with chalcopyrite blebs, is about 0.25%.	C 117032	91.74	94.79	3.05	100	2565	57	2.1	3	3
		94.79 - 97.84 As above with an increase in carbonate coated fracture toward bottom of run. Syenite becoming very pink-coloured and coarser-grained than several runs above.	C 117033	94.79	97.84	3.05	99	3568	145	2.7	4	5
		97.84 - 99.21 Sudden change to rubble and clay rich powder. Core appears bleached and cream coloured, with extensive low angle fractures and thin carbonate fillings. Section of chalky-chlorite-biotite alteration is about 30 cm long, then back into grey-pink syenite. Minor sulphide mineralization through here.	C 117034	97.84	99.21	1.37	95	3647	45	2.9	6	19
		99.21 - 101.15 As above, variable unit with an initial 30 cm of chalky-carbonate-chlorite alteration that is broken and fractured, followed by 60 cm of pinkish syenite 60 cm of grey syenite then 50 cm of chalky-chlorite-biotite altered mafic-rich rock. The grey and pink syenite sections are mineralized with 1% chalcopyrite and 1/2% bornite as disseminated blebs.	C 117035	99.21	101.15	1.94	96	3829	128	2.8	< 2	7
		101.15 - 103.94 Pink syenite with some grey patches of grey k-feldspar and magnetite and chlorite-biotite. Pink section weakly magnetic and slightly coarser grained. The grey section appears to have more mineralization - approximately 1/2-1% chalcopyrite, 0.25 to 0.5% bornite, above 1/2 to 1/3 less in pink sections.	C 117036	101.15	103.94	2.79	100	4036	89	2.0	4	3
		103.94 - 106.98 As described above. Run is mostly pink-syenite with 1/2% chalcopyrite, 0.25% bornite.	C 117037	103.94	106.98	3.04	100	3623	125	1.8	< 2	2
		106.98 - 110.03 As above, pink syenite, with grey wisps of magnetite and fine-grained biotite flakes. Chalcopyrite running at 0.75 to 1%, minor bornite, both as disseminated irregular blebs.	C 117038	106.98	110.03	3.05	100	5015	110	2.7	< 2	5
		110.03 - 113.08 Pink syenite as described above.	C 117039	110.03	113.08	3.05	100	5992	198	4.5	< 2	< 2

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		113.08 - 116.13 Run begins as described above in pink syenite but within 1 m grades into medium-dark grey, mafic / magnetic rich syenite in spots alternating branching and streaking between grey and pink syenite is at 70-80° to core axis could be described as a syenite migmatite here. Grey syenite is mineralized with 1-1 1/2% chalcopyrite, 0.25-0.5% bornite less in pink sections, very little in mafic rich sections.	C 117040	113.08	116.13	3.05	100	4098	110	2.0	< 2	3
		116.13 - 119.18 Run begins with 1.5 m of grey mafic-rich syenite, up to 5% magnetite in spots. Mafics are fine-grained biotite and masses of chlorite. Run slowly grades into pink syenite with regular grey patches. Tenor of sulphide mineralization with the upper grey magnetite-rich section is much less than the pink or grey syenite. Short section of migmatite around 117.70 is mineralized with about 1.5% chalcopyrite minor bornite.	C 117041	116.13	119.18	3.05	100	3292	74	1.1	2	4
		119.18 - 122.22 As described above pink syenite grades into and out of short, magnetite-rich grey syenite, becoming melanocratic by bottom of hole. As above, the pink-grey intervals show the best mineralization, about 1/2% chalcopyrite, trace bornite. The dark grey areas, composed of grey feldspar, magnetite and a mixture of chlorite-biotite and poorly mineralized with minor to trace of chalcopyrite.	C 117042	119.18	122.22	3.04	100	4048	108	2.0	2	4
		122.22 - 125.27 As described in run above. Grades in and out and between pink-grey syenite with minor migmatite. Grey areas very magnetite-rich. Sulphides vary from 1/2% to 1%, mostly chalcopyrites, possibly minor pyrite low angle chlorite fractures.	C 117043	122.22	125.27	3.05	100	4222	143	1.9	2	5
		125.27 - 129.36 As described above. Dark grey interval for top 1.5 metres, very fine-grained magnetite-rich, then grades into coarse-grained pink-syenite, finally settles down to a grey-pink syenite for last metre. Dark grey interval has 0.5% pyrite, 0.5% chalcopyrite, very little sulphide in the coarse pink k-feldspar-rich syenite. About average 1% chalcopyrite plus minor pyrite with grey-pink syenite. Rock contains about 1% carbonate, generally more than noted above. Low angle fractures are carbonate coated.	C 117044	125.27	129.36	4.09	100	2212	86	1.0	3	3
		129.36 - 131.37 Beginning of pink-syenite as opposed to grey magnetite rich rock in previous several intervals. Increase in grain size to 2 cm, average 0.3-0.5 cm of k-feldspar. About 0.5% irregular blebs of chalcopyrite, somewhat more, 0.5 to 1.0%, in more equigranular grey-pink syenite above. Some patches of k-feldspar are orange-red coloured in this interval. They appear to be associated with high angle fractures at 70-90° to core axis which are now marked by 1 mm calcite veinlets. Most of sulphide is pyrite in these orange colored zones. Minor amounts of chalcopyrite.	C 117045	129.36	131.37	2.01	100	457	85	0.8	< 2	< 2
		131.37 - 134.42 Pink, medium to coarse grained syenite, 10% grey medium-coarse grained feldspar, 5% chlorite in degraded mafic centres. Chalcopyrite as tiny disseminated blebs to about 0.5%. Dirty-grey coatings on low angle fractures (10-20° to core axis) are carbonate rich. Moderately magnetic, estimate 0.5 to 1% magnetite in degraded mafic centres.	C 117046	131.37	134.42	3.05	100	871	30	0.5	2	4
		134.42 - 137.46 Pink syenite as described above. Run begins with 60 cm	C 117047	134.42	137.46	3.04	100	888	16	0.3	2	8

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		of grey syenite that is more mafic and magnetite rich. Combined sulphides are about 1% with more chalcopyrite than pyrite in the pink syenite but more pyrite in the grey areas. White carbonate coatings are low angle (10-20° to core axis) fractures. Overall sulphide contact has decreased with past several runs. Near bottom of this run the amount of chalcopyrite has decreased to 0.25-0.5%.										
		137.46 - 140.51 Pink syenite as above. Low angle fractures at 139.0 have dark green chlorite-rich coatings on low angle (0-15° to core axis) fractures.	C 117048	137.46	140.51	3.05	100	496	8	< .3	< 2	< 2
		140.51 - 142.05 Pink syenite as described above. Powdery dark-green coatings on irregular fractures. Strong reaction to HCl, suggests 2-3% carbonate. Very little sulphide.	C 117049	140.51	142.05	1.54	100	334	8	0.3	< 2	< 2
		142.05 - 144.74 As above, but with 25-30% thin mafic lamellae made up of biotite-chlorite-muscovite and magnetite which form a moderately well developed foliation at about 45° to core axis, feldspars appear a bit chalky looking in places suggesting some sericite and / or clay alterations. Sulphide content has dropped about 0.25%, becoming a minor component.	C 117050	142.05	144.74	2.69	100	275	10	< .3	< 2	3
		144.74 - 146.49 Grey fine-grained syenite with occasional patches of coarser-grained pink k-feldspar. Overall this run would be described as melanocratic. Fracture control on k-feldspar associated 1-2 mm fracture fillings and to 1 cm envelopes generally at 30-45° to core axis. The grey syenite which is full of fine-grained biotite and magnetite contains about 1% chalcopyrite.	C 117051	144.74	146.49	1.75	100	1482	37	< .3	4	5
		146.49 - 149.77 Light pink syenite with 45° to core axis fractures carrying orange k-feldspar and pyrite. Irregular grey patches include 20-30° fine-grained biotite and 1% chalcopyrite.	C 117052	146.49	149.77	3.28	100	1528	94	1.5	< 2	< 2
149.77	205.13	BIOTITE PYROXENITE - with occasional intervals of fine-grained grey syenite. Pyroxenite fraction is largely altered to chlorite. Coarse-grained biotite flakes to 0.5 cm comprise about 20-30% of core near top, and increase to 30-40% within several metres. 40-50% chlorite. 10-20% k-feldspar, fine-grained magnetite to 5% low angle (0-15°) to core axis fracture faces are coated with chlorite and carbonate. Fine-grained grey sections are made up of 30-40% grey or pink k-feldspar, 35-45% small (1 mm) pyroxene crystals, +/- fine grained biotite and up to 5% chalcopyrite. The chalcopyrite shows cumulate textures, completely enclosing unaltered pyroxene crystals.										
		149.77 - 152.70 As described above, biotite-pyroxenite partly altered to chlorite. Magnetic.	C 117053	149.77	152.70	2.93	100	2978	107	1.4	9	23
		152.70 - 155.75 As above, bi-pyroxenite, white feldspar interstitial to pyroxene is mostly k-feldspar. At 155.55, several bands of 10% pyrite and chalcopyrite cut core at 60° to core axis.	C 117054	152.70	155.75	3.05	100	1089	13	< .3	11	6
		155.75 - 158.80 Bi-pyroxenite largely altered to bi-chlorite. Continuing magnetic at 158.52 there is a 1 cm band of interstitial 5-10° bornite with 1%	C 117055	155.75	158.80	3.05	100	1690	52	0.8	14	15

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION
		covellite. Band cuts core at 90°.
		158.80 - 161.85 Bi-pyroxenite altered to biotite-chlorite-epidote. First significant appearance of epidote, locally to 5% this interval has several sections of 50% coarse k-feldspar, but they don't carry mineralization.
		161.85 - 164.90 Bi-pyroxenite largely altered to biotite-chlorite in a felted mass. From 163.82 to 164.55 there is a k-feldspar rich section, fine to medium grained pyroxenite in grey interstitial feldspar is mixed in with k-feldspar rich intervals and carries up to 4% fine grained chalcopyrite. Last 15 cm of run (164.75 - 164.90) has several 1 mm discontinuous bands of chalcopyrite at 90° to core axis.
		164.90 - 166.93 Biotite pyroxenite with variable alteration to chlorite. Blebs to 0.5 cm of cumulate / interstitial chalcopyrite are common through this run. Best mineralization occurs where k-feldspar is 15-25%, biotite is less at 15-20% and pyroxene is 55-60%, such as between 165.65 and 165.85 where chalcopyrite is 3-4%.
		166.93 - 169.20 This is a more felsic section similar to that described in the run above. Sections k-feldspar-rich weakly altered pyroxenite such as between 166.93 to 167.94 are mineralized with up to 5% chalcopyrite; less felsic, although magnetite-rich sections, such as that following 167.94 contain 10-15% chalcopyrite and 20-30% magnetite. After 168.35 the run becomes more felsic again and the tenor of the mineralization more closely matches the early part of the run.
		169.20 - 171.65 Heavily mineralized biotite-magnetite-pyroxenite as described above. Magnetite to 30% chalcopyrite to 15% locally, bornite possibly to 1/2%. At 170.15 a 5 mm band of 80% chalcopyrite cuts core irregularly at 45-60° to core axis. Between 170.15 and 171.65 chalcopyrite distribution is more irregular but locally reaches 20%.
		171.65 - 174.04 Mineralization drops off to nothing for most of this run where chlorite alteration has destroyed pre-existing pyroxene / textures. A few short intervals which match the runs above are mineralized with 2-5% chalcopyrite.
		174.04 - 177.09 As above. A few short mineralized spots in biotite-k-feldspar-chlorite rich rock. At 174.63 chalcopyrite and biotite reach 5%.
		177.09 - 180.14 Biotite and chlorite altered pyroxenite, little visible sulphide mineralization.
		180.14 - 183.53 Biotite-chlorite altered pyroxenite chlorite pseudo-morphing pyroxene crystals enclosed in k-feldspar.
		183.53 - 184.82 Epidote alteration zone with several short intervals of coarse-grained k-feldspar. 10-20% epidote, 30-40% chlorite after pyroxene, 40-50% k-feldspar, no sulphides.
		184.82 - 188.67 As described several runs above. Biotite-chlorite altered pyroxenite, 10-20% k-feldspar.
		188.67 - 192.02 As above, gypsum coats some 45° to core axis fractures, several blebs of chalcopyrite and bornite in coarse-grained biotite rich spots.

SAMPLES Sample #	From (m)	To (m)	Metres	Rec %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
C 117056	158.80	161.85	3.05	100	999	41	< .3	7	9
C 117057	161.85	164.90	3.05	100	2460	65	1.2	7	14
C 117058	164.90	166.93	2.03	100	1646	51	1.0	14	14
C 117059	166.93	169.20	2.27	100	10167	423	9.6	5	10
C 117060	169.20	171.65	2.45	100	11558	378	10.1	6	19
C 117061	171.65	174.04	2.39	100	1686	53	1.4	15	36
C 117062	174.04	177.09	3.05	100	5181	134	4.4	5	37
C 117063	177.09	180.14	3.05	100	36	7	< .3	13	8
C 117064	180.14	183.53	3.39	100	18	3	< .3	9	3
C 117065	183.53	184.82	1.29	100	1810	69	1.1	4	12
C 117066	184.82	188.67	3.85	100	186	11	< .3	9	20
C 117067	188.67	192.02	3.35	100	1518	10	0.9	8	21

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION
		192.02 - 196.39 As above, more epidote alteration.
		196.39 - 199.10 Interval includes several spots with coarse-grained k-feldspar and generally more k-feldspar than above, 40% to 90%. Variable alteration of pyroxene to chlorite, some sections appear unaltered. Fine to coarse-grained biotite.
		199.10 - 202.02 Biotite-pyroxenite.
		202.02 - 205.13 Bi-pyroxenite as above.
205.13		END OF HOLE

SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
C 117068	192.02	196.39	4.37	100	177	8	< .3	12	8
C 117069	196.39	199.10	2.71	100	2301	110	1.6	9	23
C 117070	199.10	202.02	2.92	100	52	4	< .3	9	6
C 117071	202.02	205.13	3.11	100	390	6	< .3	3	5

Property: Lorraine	**Total Length:** 152.40 m	DIP TESTS		**Start Date:** August 5, 2001
Grid Cord:	**Core Size:** BQTW	Footage (m) / Dip Measured / Dip Corrected: 152 m / -54° / -45°		**Completion:** August 6, 2001
Elevation: 1588 m	**Azimuth:** 43.9° (GPS corrected)			**Logged By:** Jay W. Page
Section:	**Inclination:** -50°			**Date logged:** August 6-13, 2001

NOTES: Lower Main Area. GPS Location (corrected): UTM 347101.2 E 6200603.5 N (NAD 83) PAD: "Q"

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag(ppm)	Pt (ppb)	Pd (ppb)
0	15.24	CASING (50 feet)										
15.24	28.84	BIOTITE PYROXENITE - showing variable biotite-chlorite alteration. Grain size varies from fine-grained at top to medium / coarse-grained at bottom of interval. Amount of biotite increases to 20-30% in areas with intense / texture destructive chlorite alteration of pyroxene, which occurs in several short intervals but is most pronounced toward the bottom of the interval. **15.24 - 18.29** Fine-grained pyroxenite with 5-10% fine grained biotite, along with random 4-5 mm biotite books every 1-2 cm. Thin 1-2 mm white / pink veinlets of k-feldspar and calcite cut the core at 60° to 80° to core axis. 3-5% magnetite gives a strong magnetic character. Occasional irregular-shaped blebs of chalcopyrite in association with chlorite-biotite rich spots. Total chalcopyrite less than 0.5%. **18.29 - 21.34** As above, with last metre displaying intense biotite-chlorite alteration. Epidote reaches 20-30% in a few spots biotite 40-60%. **21.34 - 24.38** As above, but most of run is fine-grained. Chlorite-epidote altered pyroxenite. Last 70 cm of run is intensely biotite altered. A 1 cm wide k-feldspar-calcite veinlet cuts core at 70°, strongly magnetic. **24.38 - 28.84** As above, intensely chlorite and epidote altered, leaving a 40 cm section of core soft and crumbly. Interval includes a 10 cm section of monzonite. Lower metre of run is very intensely biotite altered.	C 117101	17.42	18.29	0.87	28	244	6	0.6	2	4
			C 117102	18.29	21.34	3.05	96	261	7	< .3	4	13
			C 117103	21.34	24.38	3.04	98	426	10	< .3	4	3
			C 117104	24.38	28.84	4.46	95	24	3	< .3	5	4
28.84	33.65	MAFIC RICH SYENITE - contact zone between biotite-chlorite altered pyroxenite and syenite below. Includes a short section of bleached and *weakly clay-altered feldspar-rich pyroxenite. Also sections of bi-pyroxenite* displaying intense epidote alteration, and biotite-epidote-chlorite alteration in another spot. Balance of interval is grey syenite. **28.84 - 31.37** Bleached interval of clay altered feldspar-rich (to 50%). Fine-grained biotite pyroxenite. Lower 30 cm of run is coarser-grained and biotite-rich. **31.37 - 33.65** *Biotite pyroxenite showing variable but locally intense* epidote and biotite-chlorite alteration. Some fracture surfaces are limonitic, generally at 70-80° to core axis. Much of run is soft and crumbly.	C 117105	28.84	31.37	2.53	100	121	3	< .3	2	3
			C 117106	31.37	33.65	2.28	90	128	6	< .3	< 2	3
33.65	126.27	MESOCRATIC SYENITE - grey-pink syenite. Generally fine to medium grained, with grey tones dominant, several percent magnetite yield a strong										

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag(ppm)	Pt (ppb)	Pd (ppb)
		magnetic character. Many intervals show some degrees of bleaching and clay alteration.										
		33.65 - 36.58 Fine-grained syenite with several percent magnetite, about 1% very fine-grained pyrite and chalcopyrite; occasional large to 5 mm blebs of chalcopyrite in coarser-grained spots. Several malachite spots noted.	C 117107	33.65	36.58	2.93	98	2836	84	2.1	< 2	5
		36.58 - 39.62 As above, short mafic rich intervals and 1 cm centres are altered to biotite-chlorite-epidote. Continuing fine-grained disseminated chalcopyrite +/- pyrite to about 1/2% combined.	C 117108	36.58	39.62	3.04	100	2520	384	2.0	5	5
		39.62 - 42.67 As above with more pink, coarse-grained k-feldspar than above. Small mafic patch altered to biotite-chlorite-epidote. Continuing mineralized with fine grained disseminated chalcopyrite (possibly minor pyrite) in amounts of 1/2 to 1%.	C 117109	39.62	42.67	3.05	100	1662	178	1.0	2	2
		42.67 - 45.72 As above, core is more broken, many irregular broken faces have a powdery chlorite coating, continuing minor disseminated chalcopyrite. Magnetite 2-3%.	C 117110	42.67	45.72	3.05	96	1282	74	0.9	3	4
		45.72 - 48.77 As above, grey-pink syenite with several percent magnetite and occasional coarse-grained k-feldspar sections. Continuing minor disseminated chalcopyrite ± pyrite as tiny blebs.	C 117111	45.72	48.77	3.05	99	1293	53	0.9	< 2	2
		48.77 - 51.82 As described above, trace of sulphides as tiny disseminated specks. Continuing magnetic, low angle fractures 0-15° to core axis, are coated with chlorite and carbonate. Patches of chlorite-epidote mark pre-alteration mafic centres.	C 117112	48.77	51.82	3.05	100	973	66	0.8	2	2
		51.82 - 54.86 Much of run is ground into gravel, with extensive carbonate coatings on all gravel and fracture surfaces. Most lumps of competent rock are of pink-grey syenite.	C 117113	51.82	54.86	3.04	90	497	35	< .3	< 2	6
		54.86 - 57.91 A variable run with coarse and fine-grained sections. *Limonitic and hematitic coatings on many fracture surfaces of various* orientation. Run is quite broken. Highly magnetitic.	C 117114	54.86	57.91	3.05	96	286	10	< .3	20	5
		57.91 - 60.35 Broken syenite with many light-coloured carbonate-coated 45 - 60° to core axis fractures. Grey syenite with fine-grained mafic (chlorite ± epidote) sections. Fine-grained disseminated sulphides are chalcopyrite ± pyrite. Continuing magnetic.	C 117115	57.91	60.35	2.44	100	216	13	< .3	< 2	4
		60.35 - 64.33 As above, much of sections is ground into gravel. Broken *pink-grey syenite with carbonate coatings on most surfaces. Locally,* chalcopyrite reaches 2-3%, average about 1/2 - 1% chalcopyrite. Some bleaching and clay alteration of feldspars. Continuing magnetic.	C 117116	60.35	64.33	3.98	90	296	4	< .3	< 2	< 2
		64.33 - 67.67 As described above, variable sulphide content, disseminated blebs of chalcopyrite locally reach 1% and generally more common than pyrite. Much of this run is ground into rubble.	C 117117	64.33	67.67	3.34	90	1229	51	0.5	< 2	8
		67.67 - 71.02 As described above, grey, medium-grained syenite, *magnetite rich. Fine-grained biotite-chlorite alteration of mafics, occasional* coarse-grained brownish-pink k-feldspar. Trace of pyrite.	C 117118	67.67	71.02	3.35	95	273	7	< .3	< 2	3
		71.02 - 73.15 As described above, grey medium grained syenite with coarser grained pinkish brown k-feldspar sections. Continuing magnetic. Tiny calcite and epidote veinlets cut core at a whole variety of orientations.	C 117119	71.02	73.15	2.13	96	286	2	< .3	5	6

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag(ppm)	Pt (ppb)	Pd (ppb)
		No sulphides seen.										
		73.15 - 76.20 As described above, grey, fine to medium grained syenite. Up to 5% magnetite gives a strong magnetic character. Traces of chalcopyrite and bornite (?). Core breaks very poorly, possibly due to internal fractures. Many areas of fine-grained, dark green chlorite-epidote altered mafics.	C 117120	73.15	76.20	3.05	100	467	33	< .3	< 2	4
		76.20 - 79.25 As above, continuing very magnetic, pervasive chlorite alteration of mafics. Intermediate fractures are carbonate coated (45 - 60° to core axis). Trace to minor chalcopyrite and bornite.	C 117121	76.20	79.25	3.05	100	850	36	< .3	< 2	2
		79.25 - 82.30 As above, greyish pink syenite with very magnetic character. Minor disseminated blebs of chalcopyrite and bornite (very fine grained). Pink areas tend to be coarser-grained k-feldspar.	C 117122	79.25	82.30	3.05	100	4169	447	2.4	5	20
		82.30 - 85.34 As described above, continuing grey, medium-grained syenite. Pervasive alteration of mafics to fine-grained chlorite and epidote. Calcite fracture fillings at 45 to 60° are 1 mm thick. Traces of sulphides seen.	C 117123	82.30	85.34	3.04	100	778	52	0.5	4	5
		85.34 - 88.39 As described above. Grey-pink syenite with pink tones beginning to dominate, becoming coarser-grained, minor sulphides that locally over short sections (5-10 cm) reach 1-2% chalcopyrite.	C 117124	85.34	88.39	3.05	100	751	17	0.3	2	< 2
		88.39 - 91.44 As described above, medium-grained pink-syenite with grey magnetite-rich areas. Pervasive fine-grained biotite-chlorite alteration of mafics. Trace of chalcopyrite.	C 117125	88.39	91.44	3.05	100	237	4	< .3	< 2	2
		91.44 - 94.49 Pinkish-grey magnetite rich syenite with pervasive altered mafics to chlorite ± biotite and epidote. Traces of pyrite.	C 117126	91.44	94.49	3.05	100	919	68	< .3	5	2
		94.49 - 97.54 First metre of run is soft, light grey gravel, competent core and hard bits in gravel are grey-pink syenite. Pervasive fine-grained chlorite epidote alteration of mafics. No sulphides seen. Calcite coatings on fractures at 0° to 30° are common.	C 117127	94.49	97.54	3.05	90	454	15	< .3	3	4
		97.54 - 100.58 As described above, medium-grained grey-pink syenite with pervasive chlorite-epidote alteration of mafics comprising 20-25% of the core. No sulphides seen. Weak to no magnetism. Core has very irregular breakage through a large number of runs here, most fracture surfaces are coated with carbonate.	C 117128	97.54	100.58	3.04	96	469	4	< .3	< 2	< 2
		100.58 - 103.63 As described above. Pink-grey syenite that has been broken into gravel through about 1/3 of run. Broken areas are cemented (poorly) with carbonate plus there may be some degree of weak clay alteration. Pervasive texture destructive chlorite ± epidote ± very fine-grained biotite alteration of all original mafics. Mafic patches display moderate magnetism. Carbonate-rich sections are not magnetic.	C 117129	100.58	103.63	3.05	90	513	56	0.6	< 2	2
		103.63 - 106.68 As above, but more broken and carbonate altered than previous run. Much of core has a bleached appearance, largely from carbonate, unclear how much clay alteration exists. These sections, including feldspars in fragments are very chalky and soft. Hydrothermal alteration? No magnetism, no sulphides seen, no iron oxides on fractures.	C 117130	103.63	106.68	3.05	90	420	13	< .3	< 2	2
		106.68 - 109.73 As above, but not as broken. Carbonate coatings /	C 117131	106.68	109.73	3.05	98	539	23	< .3	2	< 2

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag(ppm)	Pt (ppb)	Pd (ppb)
		alteration continuing pronounced. Competent pieces of core seem to be mainly coarse-grained pink k-feldspar. Minor amount of magnetite in these sections, also chlorite ± epidote alteration of mafics. No sulphides seen.										
		109.73 - 112.65 As above, with continuing carbonate alteration / addition as fracture coatings. Competent sections of core are grey syenite, becoming more grey with depth; grey colour due to increase in grey feldspar at expense of pink, fine-grained. Magnetite (giving a return to magnetism) and fine-grained biotite. Minor to 1/2% fine disseminated pyrite, often in degraded mafic centres with epidote.	C 117132	109.73	112.65	2.92	98	165	63	< .3	3	< 2
		112.65 - 115.82 Grey syenite as was developing above with continuing carbonate alteration / introduction along fractures. Much of core still breaking in an irregular fashion. Generally fairly dark tone to fresh surfaces on split core, due to grey k-feldspar, magnetite (strongly magnetic) and fine-grained biotite, clay with chlorite alteration of pre-existing mafics. No sulphides seen, except near pink k-feldspar veinlets and alteration envelopes (total width 1/2 cm) that cut core axis at 30° to 90°.	C 117133	112.65	115.82	3.17	98	215	24	< .3	3	3
		115.82 - 118.87 As above, but with more pink tones in competent sections of core (although grey syenite still dominates). Moderately magnetic, weakly mineralized with disseminated pyrite. Trace chalcopyrite. Carbonate coatings on 10° to 30° fracture surfaces.	C 117134	115.82	118.87	3.05	98	136	15	< .3	< 2	< 2
		118.87 - 123.30 As above, containing grey-pink mesocratic syenite with 10 45° to core axis fractures coated with carbonate. 2-3% magnetite, minor chalcopyrite, although locally it reaches 1%. Pervasive texture destruction chlorite-epidote-biotite alteration of mafics.	C 117135	118.87	123.30	4.43	100	867	49	0.3	2	< 2
		123.30 - 126.27 Grey syenite as described above. 2-4% magnetite, locally more (4-6%) very magnetic. Pervasive mafic alteraton to 50% biotite, 50% *chlorite, ± 5-10% epidote (mafic centres only).* Most of rock 60-80% is grey equigranular idiomorphic k-feldspar. 10% biotite as tiny disseminated flakes unrelated to mafic centres. Mafics comprise 10-30% of core. Variable sulphide content, average 0.25-0.5% pyrite, minor chalcopyrite.	C 117136	123.30	126.27	2.97	100	197	18	< .3	< 2	2
126.27	134.35	MONZOSYENITE - foliated with 20-30% elongate mafic centres composed mainly of biotite. Foliation which is weak to moderately developed in most of this interval is vague to non-existent where pink k-feldspar is dominant. Fairly well developed in areas dominated by grey k-feldspar. Overall grey colour tone due to grey feldspar 50-75%, grey plagioclase 10-35%, mafics (mostly biotite ± chlorite ± epidote) 20-30%, magnetite 2-4% low angle fractures 0-10° are common with 1 mm carbonate coatings.										
		126.27 - 129.37 Grey monzo-syenite, weakly foliated as described above. Magnetic, contains about 1% fine grained disseminated bleb of pyrite.	C 117137	126.27	129.37	3.1	100	304	14	< .3	4	5
		129.37 - 132.08 As above, weak to moderately foliated at angles of 30° to 80° to core axis continuing magnetic. Biotite 15-20%. 2-4% continued chlorite and epidote. Trace pyrite.	C 117138	129.37	132.08	2.71	100	116	72	< .3	< 2	4

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION
		132.08 - 134.35 As described above with a weak to moderate variable foliation defined by biotite clusters in a monzosyenite. Very difficult to identify plagioclase but believe it is there. Trace sulphide (pyrite?) carbonate coatings on low angle (0 to 30° to core axis) fractures.
134.35	152.40	GREY SYENITE - strongly magnetic with 2-4% magnetite. Generally fairly fine-medium grained with coarser pink sections. Fine-grained biotite replaces mafics and helps to define grey colour tone. Sulphides as fine-grained clusters with epidote in degraded mafic centres. Most of sulphide is pyrite.
		134.35 - 137.16 As described above minor to 1% disseminated pyrite associated with epidote spots.
		137.16 - 139.80 As described above with more k-feldspar rich (orange) sections in centre of run. Coarse grained k-feldspar-rich sections also include large patches of chlorite. Low angle fractures (0-30°) are filled with 1 mm thick calcite coatings. Minor chalcopyrite in pink / orange k-spar rich sections.
		139.80 - 143.26 Interval begins with a weakly foliated syenite-monzosyenite that is very similar to that described above, but with more k-feldspar and lighter pink colour tones. Overall through the lower 20-25 metres of this hole the k-feldspar content varies. Pyrite is about 1/2% associated with epidote spots. Moderately magnetic.
		143.26 - 146.80 As described above, but with a slightly more pink tone. Mafics are largely biotite wisps, 2-3% epidote, 1% pyrite mostly associated with epidote spots.
		146.80 - 149.35 As described above, with a weakly defined biotite foliation at 45° to core axis through lower part of run. Continuing moderate magnetism. Disseminated blebs and cubes of pyrite. Chlorite-biotite ± epidote alteration of mafics. Some pyrite associated with epidote, overall 1% pyrite.
		149.35 - 152.40 As described above. Pinkish-grey syenite magnetic, about 10% quartz?
152.40		END OF HOLE.

SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag(ppm)	Pt (ppb)	Pd (ppb)
C 117139	132.08	134.35	2.27	100	66	3	< .3	6	3
C 117140	134.35	137.16	2.81	100	669	38	0.4	4	4
C 117141	137.16	139.80	2.64	100	460	74	0.3	< 2	6
C 117142	139.80	143.26	3.46	100	345	96	< .3	< 2	< 2
C 117143	143.26	146.80	3.54	100	170	19	< .3	2	2
C 117144	146.80	149.35	2.55	100	179	15	< .3	3	3
C 117145	149.35	152.4	3.05	100	305	16	< .3	4	3

Property: Lorraine
Grid Cord:
Elevation: 1780 m
Section:

Total Length: 167.64 m
Core Size: BQTW
Azimuth: 36.4° (GPS corrected)
Inclination: -45°

DIP TESTS

Footage (m)	Dip Measured	Dip Corrected
167 m	-53°	-45°

Start Date: August 8, 2001
Completion: August 9, 2001
Logged By: Jay W. Page
Date logged: August 16-19, 2001

NOTES: Upper Main Area. GPS Location (corrected): UTM 347631.6 E 6200549.8 N (NAD 83) PAD: "H/I"

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION
0	0.00	NO CASING
0.00	132.46	MESOCRATIC SYENITE - greyish pink syenite that varies in colour but most commonly appears as grey with pink k-feldspar overprints, alteration envelopes, etc. Black magnetite varies from 2-6% generally giving a strong magnetic character. Sulphides are highly variable with 0 to 1% pyrite, chalcopyrite and bornite. Most common mafic is biotite. **0.00 - 3.05** Grey syenite with pink k-feldspar-rich sections and as 0.5 mm wide envelopes along some 30° fractures. Magnetite rich, up to 4%. Core is medium-grained, k-feldspar is generally equigranular and very crystalline looking. Low angle (0-10° to core axis) fractures are malachite coated. Also malachite specks are common, maybe up to 0.25% in places. Trace pyrite. Most common mafic is fine-grained biotite as randomly oriented flakes. 1-5% epidote, occasionally associated with patches of chlorite. Some carbonate coatings on fracture surfaces. **3.05 - 6.10** As above, although with pink tones more dominant with an increase in pink k-feldspar and in grain size. Biotite, generally as fine-grained discrete flakes, forms a weak foliation at 80° to core axis. Pink k-feldspar rich sections have little, if any magnetite. A few rust spots and malachite spots betray former sulphides, total less than 0.25%. **6.10 - 9.14** As described above, grey pink syenite displaying very little magnetism except at obvious magnetite clots every few centimetres. Prominent malachite staining on every fracture between 0-45° to core axis. Fine grained biotite remains the most common mafic. **9.14 - 12.19** Pinkish-grey syenite as described above. Malachite staining and rare limonite on low angle fracture faces. Fine-grained biotite and grey k-feldspar form many dark grey areas. Little to no magnetite. Some malachite specks but no sulphides seen. **12.19 - 15.24** Pink medium-grained syenite, vague dark grey areas and bands are composed of grey feldspar and fine-grained biotite. Very little magnetism. Fractures are coated with malachite, minor limonite and jarosite, and carbonate. Disseminated specks of malachite to 1/2% identify pre-existing copper sulphides. Continued next page:

SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
C 117151	0.00	3.05	3.05	100	2314	32	1.3	4	5
C 117152	3.05	6.10	3.05	100	2111	58	1.0	4	5
C 117153	6.10	9.14	3.04	98	2822	145	1.9	3	6
C 117154	9.14	12.19	3.05	100	2098	57	1.6	< 2	4
C 117155	12.19	15.24	3.05	100	1874	52	1.1	4	6

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		15.24 - 18.29 Pink and grey syenite as described above. Malachite specks have increased slightly to about 0.75%, dark coatings on some fractures may be chalcocite along with limonite / jarosite and malachite. Weakly magnetic, except where rust staining and concentrations of medium-grained biotite are associated with 1-2% magnetite. Finer-grained grey areas have 2-3% chalcopyrite, possible minor pyrite, minor bornite associated with chalcopyrite blebs. Pink syenite areas are weakly mineralized.	C 117156	15.24	18.29	3.05	100	2068	48	1.1	4	6
		18.29 - 21.34 As described above, but with slightly more pink syenite, and less mineralization than above run. Interval shows weak to moderate magnetism.	C 117157	18.29	21.34	3.05	100	2797	73	2.5	5	7
		21.34 - 24.38 As described above, about 1% malachite spots, often associated with small patches of orange-coloured k-feldspar. Continuing extensive malachite staining on fracture faces of all orientations. Pink sections are made up of almost entirely k-feldspar, about 1/2% pyrite and about 1/2% chalcopyrite, both as disseminated blebs.	C 117158	21.34	24.38	3.04	100	4046	164	2.3	4	6
		24.38 - 27.43 Pink syenite as described above. Pinkish-orange k-feldspar alteration envelopes 2-4 mm wide follow 30-45° to core axis fractures, and have associated with them strings of chalcopyrite blebs + malachite. Continuing very little magnetite. Numerous small rust spots appear to be degraded biotite. No carbonate alteration.	C 117159	24.38	27.43	3.05	100	2401	62	1.0	2	3
		27.43 - 30.48 As above, pink syenite composed of 90% + equigranular, hypidiomorphic, medium-grained k-feldspar. About 1% malachite spots, about 10% degraded mafic / biotite spots. Extensive limonite-jarosite and malachite staining on fractures, especially low angle fractures at 0-15° to core axis. Weakly magnetic.	C 117160	27.43	30.48	3.05	100	3110	60	1.3	3	4
		30.48 - 33.53 As described above, pink syenite, but with more biotite-rich spots toward bottom of run. Malachite spots enclose relic chalcopyrite grains in some spots. Extensive malachite, limonite-jarosite, + chalcocite on low angle (0-15°) to core axis fractures.	C 117161	30.48	33.53	3.05	100	2299	43	0.8	5	4
		33.53 - 36.58 As above, continuing pink syenite, but with many orange k-feldspar alteration envelopes 5 mm wide at 45-90° to core axis. A 30 cm zone at 35.00 includes coarse-grained (to 2 cm) orange k-feldspar with 2% large malachite blebs.	C 117162	33.53	36.58	3.05	100	2318	34	1.4	3	4
		36.58 - 39.62 Pink syenite as described above, with several coarse-grained orangish k-feldspar sections and a biotite-rich section from 38.40 to 38.83. Here, biotite comprises about 50% of the rock, about 10% pink k-feldspar and about 40% grey feldspar. It does not appear to be mineralized. 2-3% magnetite yields a strong magnetic character. Pink syenite is only weakly magnetic. Continuing malachite stains on fracture surfaces and occasional malachite spots in the syenite.	C 117163	36.58	39.62	3.04	100	2268	40	1.1	2	4
		Continued next page:										

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		39.62 - 42.67 Pink syenite as described above but with dark brown goethite-limonite + malachite coatings on low angle fractures (0 to 10° to core axis). Dark spotty coatings on fractures may be chalcocite, associated with malachite which has a radial acicular habit. Generally non-magnetic occasional specks of pyrite disseminated through pink syenite, locally reaching 1% with minor chalcopyrite. Grey syenite patches are more heavily mineralized with 1-2% chalcopyrite with traces of bornite attached to blebs of chalcopyrite, also minor to 1% pyrite.	C 117164	39.62	42.67	3.05	100	4144	65	1.9	2	2
		42.67 - 45.72 As described above. Fracture coatings of limonite, malachite and chalcocite become very pronounced toward bottom of run. Minor amounts of disseminated pyrite and chalcopyrite. Little to no magnetite.	C 117165	42.67	45.72	3.05	100	10399	222	4.5	3	4
		45.72 - 48.77 As described above, but more broken, and reduced to rubble with a few spots. Continuing extensive coatings of malachite, and limonite - jarosite. Split core has numerous fracture orientations; low angle fractures (0-20° to core axis) have most of the chalcocite-malachite mineralization, fractures around 45° to core axis have thick, earthy coatings of limonite + jarosite. Very little (traces) of primary sulphide mineralization seen within syenite.	C 117166	45.72	48.77	3.05	98	17024	669	18.7	7	8
		48.77 - 51.82 As described above, with extensive coatings of chalcocite and malachite on fracture faces that are visible on almost every piece of split core. Syenite host for fractures has changed to a grey syenite in this run. The grey syenite contains small patches and bands at steep angles (70 - 90° to core axis) of pink k-feldspar. The grey syenite is moderately magnetic (2-3% magnetite, locally 4-5%) and is mostly made up of grey k-feldspar, 60-80% and biotite 15-25%.	C 117167	48.77	51.82	3.05	100	9198	562	8.0	4	6
		51.82 - 54.86 As above, but more broken with 2 short (20-30 cm) sections of gravel. Chalcocite and malachite plus limonite - jarosite coatings on fracture faces are extensive. Chalcocite as dark powdery coatings reaches a maximum in the hole at the bottom of this run. Minor disseminated chalcopyrite + pyrite disseminated through host syenite.	C 117168	51.82	54.86	3.04	96	3601	184	2.5	4	5
		54.86 - 57.91 As described above for just 1.52 metres (to 56.38), broken with extensive coatings of chalcocite, malachite and limonite. After 56.38 the core becomes much more competent as grey syenite, and although fractures are still coated with chalcocite, malachite and limonite, there are fewer fractures and less coatings on each fracture. Within the grey syenite, there are a few malachite specks scattered throughout. Magnetic.	C 117169	54.86	57.91	3.05	98	2943	74	1.6	3	4
		57.91 - 60.96 Grey syenite as described above. Chalcocite and minor malachite on one 10° to core axis fracture face at bottom of run. Disseminated as small blebs an 0.25% chalcopyrite in the grey syenite. Magnetic.	C 117170	57.91	60.96	3.05	100	2381	51	1.2	5	5
		Continued next page:										

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		60.96 - 64.01 Grey syenite as described above. Fractures at 30-45° are coated with limonite. Occasional small pink patches carry most sulphide mineralization up to 2-3% chalcopyrite. Continuing magnetic.	C 117171	60.96	64.01	3.05	100	2071	133	1.6	5	5
		64.01 - 67.10 Grey syenite as described above. Core through a couple of runs here has a "sugary-look", breaks with sharp edges, possibly some hornfelsing has occurred. Continuing magnetic. Trace amounts of sulphide noted in a few pieces of core. Several fracture faces carry small amounts of chalcocite and malachite. Minor amounts of malachite as tiny specks are disseminated through the syenite.	C 117172	64.01	67.06	3.05	100	1538	80	1.0	5	5
		67.10 - 70.10 A broken run with a mix between pink and grey syenite. Many fracture faces are visible with spots of chalcocite and malachite exposed. Fractures range from 0 to 90° to core axis and there does not appear to be a preferred orientation. Minor disseminated chalcopyrite. Moderately to strongly magnetic.	C 117173	67.06	70.10	3.04	98	3687	164	3.1	2	4
		70.10 - 73.15 A mixture of pink and grey syenite but less broken than above. Minor amounts of malachite and chalcocite spots noted on low angle fractures (0-10° to core axis). Mixture of pink and grey syenite creates a weak to moderate banded appearance at roughly 65-90° to core axis. Continuing magnetic. A 1 cm thick barren quartz vein cuts the core at 90° to core axis at 71.15.	C 117174	70.10	73.15	3.05	100	2337	77	1.9	5	5
		73.15 - 76.20 Pink syenite with some grey tones. Minor amounts of malachite and chalcocite spots are noted on low angle (0-20° to core axis) fracture face. Continuing magnetic, trace amounts of sulphide (pin-heads of chalcopyrite?) also bornite. Sulphide locally reaches 1/2%. Malachite spots also common.	C 117175	73.15	76.20	3.05	100	2438	82	2.0	7	6
		76.20 - 79.25 Grey syenite with pink k-feldspar rich patches. Very magnetic with locally 4-5% magnetite. Grey areas due to grey k-feldspar, magnetite and fine-grained biotite. Very fine-grained disseminated chalcopyrite with minor bornite often reaches 2%.	C 117176	76.20	79.25	3.05	100	2699	76	1.6	2	3
		79.25 - 82.30 As above, with a more grey colour tone, magnetic and with an increase in sulphide mineralization. Chalcopyrite locally reaches 3-4%, average 1-2%, bornite also very common as small blebs associated with chalcopyrite in degraded (biotite rich) mafic centres. Limonitic stain with malachite + minor chalcocite on fractures, especially fractures less than 30° to core axis.	C 117177	79.25	82.30	3.05	100	5947	185	4.2	4	5
		82.30 - 85.34 Grey syenite as described above. Very fine-grained specks of chalcopyrite and bornite are common, locally reach 2%, average 1/2 to 1%. Continuing strongly magnetic with magnetite locally reaching 4%. No reaction to HCl.	C 117178	82.30	85.34	3.04	100	3207	118	2.4	2	2
		Continued next page:										

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		85.34 - 88.79 As above, but more variation between pink and grey areas, also variation in grain size with pink k-feldspar rich areas being coarser-grained. Continuing mineralized with fine-grained chalcopyrite and bornite, averaging about 1%. Grey syenite areas appear to be more heavily mineralized. A coarse-grained magnetite rich section at 85.62 includes 1 cm blebs of chalcopyrite and large books of biotite. Epidote alteration also prominent in this 4 cm long section. Some degraded mafics, altered to biotite are heavily mineralized with chalcopyrite and bornite. More biotite rich toward bottom of interval.	C 117179	85.34	88.79	3.45	100	4118	199	3.5	6	8
		88.79 - 91.06 A coarser grained section of orange-coloured k-feldspar rich syenite, composed of 60-70% orange k-feldspar, 10-15% grey feldspar, 15-25% biotite. Moderately to strongly magnetic with 2-3% magnetite, no sulphides noted.	C 117180	88.79	91.06	2.27	100	274	2	< .3	2	< 2
		91.06 - 94.49 Grey syenite with disseminated chalcopyrite mineralization to 2%, average about 1%, 1/2% bornite as tiny pin-leads and as larger blebs attached to chalcopyrite blebs. 10-15% fine-grained biotite, 2-3% magnetite pinkish patches and bands cutting core at 80-90° to core axis are less well mineralized than grey syenite.	C 117181	91.06	94.49	3.43	100	3609	80	2.2	< 2	< 2
		94.49 - 97.54 Grey syenite with some pink tones, similar to above but with less sulphide mineralization. Fine disseminated blebs of chalcopyrite appear more concentrated in those sections with the most apparent mixing between pink and grey phases (essentially areas of pink and grey k-feldspar). Radiating acicular needles of malachite plus minor amounts of covellite + chalcocite. Covellite forms rims on dark indistinct minerals, possibly bornite with biotite? About 1% epidote, mafic component is almost entirely biotite. Variable amount of magnetite, grey syenite areas include 2-3% magnetite as tiny specks. There is a minor amount of bornite as disseminated tiny specks.	C 117182	94.49	97.54	3.05	100	4432	94	2.7	2	< 2
		97.54 - 100.58 As described above, with about 1% disseminated blebs of chalcopyrite and 0.25 to 0.5% tiny specks of bornite. Amount of mineralization increases toward the bottom of run to 2-3% chalcopyrite, 1/2 to 1% bornite; local small spots even richer. Moderately to strongly magnetic.	C 117183	97.54	100.58	3.04	100	9843	514	7.1	5	7
		100.58 - 103.63 As described above. Most of this run is well mineralized pinkish grey syenite carrying on average about 1-1 1/2% chalcopyrite and 1/2 to 1% bornite. Of note is a small inclusion of pyroxenite 2 cm x 4 cm with 10-20% chalcopyrite showing "NET" cumulate textures and enclosing pyroxene crystals. There is also considerable bornite and covellite with this pyroxenite xenolith. The grey syenite around this piece of pyroxenite is also heavily mineralized with up to 10% chalcopyrite and 1-2% bornite + covellite. Pyroxenite occurs at 100.58. The light pink syenite is weakly mineralized, the grey section and vague bands are well mineralized and the biotite-rich section (20 cm) at bottom of run has almost none. Malachite spots are still seen in the pink syenite.	C 117184	100.58	103.63	3.05	100	8182	344	6.1	3	3
		Continued next page:										

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		103.63 - 106.68 Similar to above, but with more variability in composition and mineralization. There is a wide range of variation between grey and pink syenite but in general this run has more biotite and less sulphide mineralization than above. Several short sections (about 10 cm) include 50-60% biotite and 2-4% epidote. Run includes a section of rusty gravel.	C 117185	103.63	106.68	3.05	98	2602	99	1.6	< 2	4
		106.68 - 109.73 As above, grey-pink syenite with the grey k-spar and biotite often forming vague lineations at 75° to core axis. Mineralization has decreased to about 1/2% chalcopyrite and <0.25% bornite but interval is still consistently mineralized. Higher grade mineralization occurs in small mafic centres (about 1 cm in size) that have been altered to biotite and chlorite, and carry up to 10% chalcopyrite and bornite within the mafic centre. Continuing magnetic.	C 117186	106.68	109.73	3.05	100	2998	192	1.5	2	< 2
		109.73 - 112.78 As above, top 1.5 metres of run is greyish-pink syenite with 1% chalcopyrite and 0.25% bornite as tiny disseminated blebs associated most often with grey syenite and mafic-rich spots (but not just biotite). Lower half of run is broken pink syenite with numerous fracture faces stained with limonite-jarosite, minor malachite + chalcocite. Overall there appears to be a decrease in mineralization through this run.	C 117187	109.73	112.78	3.05	98	2400	66	1.8	< 2	< 2
		112.78 - 115.83 Similar to lower half of above run, grey mafic-rich syenite broken by numerous fractures which are limonite-jarosite stained. Weak to moderate malachite + chalcocite coatings on most fracture faces. Sulphide mineralization has decreased to 1/2% chalcopyrite, strongly magnetic.	C 117188	112.78	115.83	3.05	98	2896	109	1.6	2	3
		115.83 - 118.87 Grey-pink syenite with 15-25% fine to medium-grained biotite. Sulphide mineralization is variable, from small mafic centres in pink syenite to disseminated without any pattern or association in the grey syenite areas. Continuing magnetic. Core is fairly broken in spots with malachite staining on fracture faces. In some spots chalcopyrite forms lines of blebs, suggesting fracture control although no preferred orientation is indicated other than it tends to cross cut rather than parallel the core axis.	C 117189	115.83	118.87	3.04	96	4559	150	2.3	< 2	< 2
		118.87 - 121.92 As described above, pink and grey syenite with many irregular broken and fracture faces. Coatings on fractures include carbonate, malachite + chalcocite, and limonite-hematite at 120.00, slickensides on chlorite-hematite-limonite coated 10° to core axis fracture rake at 64°. Grey syenite for lower metre of run is mineralized with about 1% disseminated chalcopyrite and 0.25% bornite, but locally reaches 3% chalcopyrite.	C 117190	118.87	121.92	3.05	98	3219	72	1.7	< 2	3
		Continued next page:										

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		121.92 - 124.97 Grey syenite as described above containing 1-3% chalcopyrite and 0.25% bornite. A fracture face at 124.90 has a 1 mm thick seam of chalcopyrite at 5° to core axis, but is only 3 cm long. Low angle fracture faces (0 to 10° to core axis) commonly have coatings of limonite and malachite.	C 117191	121.92	124.97	3.05	100	5448	79	2.5	3	3
		124.97 - 128.02 As described above, grey syenite for just 1 1/2 metres with about 1% chalcopyrite and 0.25% bornite. Lower half of run is more biotite and mafic-rich but includes many patches and bands of pink and orange k-feldspar. These areas are on average, mineralized about the same as the grey syenite but the mineralization is more variable and spotty. Lower half is non-magnetic.	C 117192	124.97	128.02	3.05	100	3389	107	1.4	2	2
		128.02 - 130.51 Similar to above run, but more broken with limonitic stains on many low angle (0-15° to core axis) fracture faces. Strongly mineralized with 2-3% chalcopyrite for first metre, the lower part of run is poorly mineralized and pink k-feldspar rich.	C 117193	128.02	130.51	2.49	100	1885	43	1.2	< 2	< 2
		130.51 - 132.46 Run begins with 1 metre of medium-grained grey k-feldspar with 1/2-1% chalcopyrite then more mafic pink syenite with coarse-grained pink k-spar. Less chalcopyrite in lower pink section, 0.25 to 0.5%.	C 117194	130.51	132.46	1.95	100	1935	70	1.3	< 2	< 2
132.46	148.51	MELANOCRATIC SYENITE - dark grey, fine-grained pyroxene-rich syenite. Well mineralized with up to 3% combined pyrite and chalcopyrite. Composed of approximately 50% fine 1 mm long pyroxene laths with 50% interstitial grey k-feldspar. Irregular patches, wisps, and bands of pink k-feldspar give magmatite texture in places where orientated bands cut at 65 to 90° to core axis. One 30° fracture has 1-2 mm k-feldspar alteration envelope while the fracture is filled with 1 mm of chlorite. Non-magnetic.										
		132.46 - 134.11 Melanocratic syenite with 2-3% pyrite and chalcopyrite as described above. Approximately 0.25% bornite also. All sulphides as fine-grained disseminated blebs.	C 117195	132.46	134.11	1.65	100	4594	160	2.2	< 2	2
		134.11 - 137.16 As above, 2-3% pyrite which often forms lines of discontinuous tiny blebs which indicate fracture control. Various orientations are indicated but 90° to core axis is dominant. Minor to 1% chalcopyrite as disseminated blebs. Pyrite often as striated cubes. Not magnetic.	C 117196	134.11	137.16	3.05	100	5562	122	2.3	< 2	4
		137.16 - 140.21 As described above but chalcopyrite has increased to 2-3% while pyrite is about 1%. Run includes several short sections of unmineralized grey syenite and ends with one metre of it.	C 117197	137.16	140.21	3.05	100	1685	38	0.3	< 2	< 2
		140.21 - 143.26 As described above, several repeats of mineralized melanocratic syenite (1-2% chalcopyrite, 1-2% pyrite) and a weakly mineralized pink syenite (0.25-0.5% chalcopyrite).	C 117198	140.21	143.26	3.05	100	5669	126	3.3	2	3
		143.26 - 146.30 Identical to that described above.	C 117199	143.26	146.30	3.04	100	2799	39	1.2	2	5

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		146.30 - 148.51 As described above, largely melanocratic syenite with perhaps more chalcopyrite (2-4%) and less pyrite (1-2%).	C 117200	146.30	148.51	2.21	100	2913	55	1.2	< 2	5
148.51	166.63	MESOCRATIC SYENITE - grey pink coloured, medium-grained syenite with 10-15% medium and fine-grained biotite. 0.5 to 1% chalcopyrite and minor bornite as disseminated interstitial blebs. Some blebs are up to 5 mm in size in first run.										
		148.51 - 150.00 As described above with occasional knots of coarse-grained biotite.	C 117201	148.51	150.00	1.49	100	2715	82	1.7	3	5
		150.00 - 152.40 As described above but chalcopyrite decreases to a trace by the end of the run. Minor pyrite as tiny cubes.	C 117202	150.00	152.40	2.40	100	1728	45	0.9	< 2	3
		152.40 - 155.45 Light coloured pink-grey syenite as described above. Frequent coarse-grained sections. Orange k-feldspar envelopes cut core around 45-60° to core axis and are up to 1 cm wide. Traces of sulphide seen.	C 117203	152.40	155.45	3.05	100	653	20	0.4	2	3
		155.45 - 158.50 As described above, chalcopyrite, bornite and covellite have re-appeared but are spotty and overall comprise only about 0.25% of core combined.	C 117204	155.45	158.50	3.05	100	394	18	0.4	< 2	2
		158.50 - 161.54 As described above, variations between percent grey and pink k-feldspar providing only action in this run. Traces of chalcopyrite noted.	C 117205	158.50	161.54	3.04	100	443	18	0.4	2	2
		161.54 - 164.59 As above, largely grey syenite with minor pyrite blebs.	C 117206	161.54	164.59	3.05	100	520	11	0.4	< 2	4
		164.59 - 166.63 As above, with several thin irregular white feldspar veinlets, a coarse-grained, reddish-brown k-feldspar section of 35 cm, and several coarse-grained biotite-rich spots with the biotite oriented at 45° to core axis.	C 117207	164.59	167.64	3.05	100	159	17	< .3	< 2	< 2
166.63	167.64	BIOTITE PYROXENITE **166.63 - 167.64** Displaying pervasive, texture-destructive and complete alteration to chlorite and biotite. Two populations of biotite. Large 5 mm knots, and fine-grained mixtures with chlorite (?). No evidence of chlorite alteration of biotite, visible with hand-lens. 10-20% grey k-feldspar. No sulphides seen.										
167.64		END OF HOLE.										

Property: Lorraine	Total Length: 101.50 m	DIP TESTS	Start Date: August 9, 2001
Grid Cord:	Core Size: BQTW	Footage (m) / Dip Measured / Dip Corrected: No Test	Completion: August 10, 2001
Elevation: 1780 m	Azimuth:		Logged By: Jay W. Page
Section:	Inclination: -90°		Date logged: August 20-21, 2001

NOTES: Upper Main Area. GPS Location (corrected): UTM 347632.0 E 6200548.0 N (NAD 83) PAD: "H/I"

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		No Casing										
0.00	47.70	MESOCRATIC SYENITE - grey syenite grading into pink syenite by 25.0 metres. Oxidation, leaching and deposition of limonite, malachite and chalcocite on fractures throughout interval. Magnetism varies from weak to strong. Primary sulphides includes chalcopyrite, bornite and minor amounts of pyrite, generally as small disseminated blebs in amounts that locally reach 1-2%.										
		0.00 - 2.13 Grey syenite with cross-cutting 2 mm wide, pink k-feldspar alteration envelopes along tiny fractures with no dominant orientation. Magnetic. Very fine-grained traces of unidentified primary sulphide. Malachite ± chalcocite stains on low angle fractures.	C 117251	0.00	2.13	2.13	100	1352	33	0.7	3	2
		2.13 - 5.18 Grey syenite as described above, but more variability in grain-size and colour. Traces of fine-grained chalcopyrite. Malachite spots common, betraying locations of pre-existing copper sulphides. Small mafic-rich sections are almost entirely altered to chlorite and fine-grained biotite. Malachite ± chalcocite commonly coat most fracture faces.	C 117252	2.13	5.18	3.05	98	3156	96	1.7	5	2
		5.18 - 8.23 Grey, varying to pink syenite, with an increase in grain size in the pink areas. Fine-grained biotite comprises up to 30-40% of grey syenitic areas, pink syenite often has only 0-5% biotite ± chlorite. Grey areas are highly magnetic with up to 4-5% magnetite, pink syenite often has no magnetite. No primary sulphides seen. Malachite ± chalcocite coat fracture faces, especially low angle (0-20° to core axis) fracture faces.	C 117253	5.18	8.23	3.05	100	2482	50	1.3	5	< 2
		8.23 - 11.28 Grey syenite as described above. Some of the core has a bit of a sugary appearance, suggesting hornfelsing. Grey syenite is equigranular, hypidiomorphic, and the primary mafic is fine to medium grained knots of biotite. Very little if any magnetite. Minor traces of chalcopyrite specks disseminated through core.	C 117254	8.23	11.28	3.05	100	3293	100	2.1	2	< 2
		11.28 - 14.32 As described above, grey syenite with disseminated specks of malachite plus occasional tiny blebs of chalcopyrite in biotite altered mafic centres. Malachite, plus limonite ± chalcocite common on low angle fracture faces (0-10° to core axis). Weakly magnetic.	C 117255	11.28	14.32	3.04	100	2880	69	1.5	2	2
		14.32 - 17.37 Grey syenite with minor pink tones as described above. Parts of this interval have a fine-grained recrystallized appearance. Weak to no magnetism. Minor chalcopyrite noted as very fine-grained, disseminated specks. Extensive coatings of limonite - malachite ± chalcocite on low angle (0-10° to core axis) fracture faces.	C 117256	14.32	17.37	3.05	100	3001	83	2.0	2	< 2

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		17.37 - 20.42 Grey syenite as described above. Minor amounts of fine-grained disseminated chalcopyrite and malachite spots. Continuing extensive malachite, limonite ± chalcocite coatings on low angle fracture faces. Weakly magnetic in spots. Several 1 mm carbonate fracture fillings cut core at 45 to 30° to core axis. Disseminated chalcopyrite blebs increase to 0.5% toward bottom on run.	C 117257	17.37	20.42	3.05	100	3772	155	2.3	5	4
		20.42 - 23.47 Grey syenite with pink k-feldspar envelopes to 2 cm wide becoming prominent near bottom of run. Upper grey syenite section is mineralized with 1% small blebs of disseminated chalcopyrite. Initial grey section is magnetic, pink k-feldspar sections are not. Fractures are coated with malachite ± chalcocite, especially fractures parallel to core axis.	C 117258	20.42	23.47	3.05	100	4177	111	2.5	4	5
		23.47 - 26.52 Grey syenite as described above, but with more chalcopyrite mineralization, fine disseminated blebs reaches 1% over much of the run. Malachite and chalcocite coatings on 0° to 10° fracture surfaces are common. Tiny veinlets with pink k-feldspar envelopes have epidote selvages / fillings 1 mm wide and cut core at 20° to core axis.	C 117259	23.47	26.52	3.05	100	4688	136	3.2	3	4
		26.52 - 29.57 Beginning of mesocratic pink syenite with some grey tones and a number of coarse-grained strongly pink sections / patches / alteration envelopes. Non-magnetic. Variable mafic content is often less than 10%, almost entirely biotite with minor chlorite. Traces to locally minor amounts of chalcopyrite as tiny blebs. Continuing malachite as disseminated spots and as low angle fracture coatings with chalcocite spots.	C 117260	26.52	29.57	3.05	100	3290	137	1.8	2	< 2
		29.57 - 32.61 As described above, pink and grey syenite with strongly pink / orange coloured k-feldspar patches and alteration envelopes. Grey syenitic sections are more heavily mineralized than the pink sections, locally reaching 1% chalcopyrite. Several large blebs of chalcopyrite are in a calcite veinlet at 40° to core axis. Several tiny calcite veinlets cut core at 30° to core axis and carry chalcopyrite in vague, poorly developed envelopes. Continuing malachite, limonite and chalcocite spots on 0° to 10° fracture faces.	C 117261	29.57	32.61	3.04	100	2427	72	1.0	5	3
		32.61 - 35.67 As described above, pink syenite with up to 15% biotite, but often less than 10%; up to 1% disseminated tiny specks of chalcopyrite, averaging about 0.5%. Non-magnetic. Continuing malachite and chalcocite spots on broken core and fracture surfaces, especially low angle fractures.	C 117262	32.61	35.67	3.06	100	2776	102	0.6	2	< 2
		35.67 - 38.71 As described above, pink syenite. Syenite is very equigranular, contains about 10% biotite, but local concentrations reach 30% (rare). Malachite spots on freshly broken core are common, along with about 0.5% chalcopyrite blebs. Much of this run has been split along fracture surfaces coated with malachite, chalcocite and limonite.	C 117263	35.67	38.71	3.04	100	3300	163	1.5	4	2
		38.71 - 41.76 Run begins as described above, but becomes more limonitic / limonite stained and finer grained with more chlorite and grey k-feldspar. Some of this interval appears hornfelsed. Disseminated 1/2% chalcopyrite with minor bornite appear in pink section, increasing to 3-5% chalcopyrite and 0.5% bornite with the darker, finer-grained greenish sections. Run probably averages 1-2% chalcopyrite and 0.25 bornite. Continuing non-	C 117264	38.71	41.76	3.05	100	3835	227	2.0	3	4

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		magnetic. Malachite ± chalcocite found on low angle fracture faces, clay with limonite.										
		41.76 - 44.81 As described above, greyish and pink syenite grade into and out of each other. Chalcopyrite mineralization has increased significantly to about 3-5% and bornite to 0.5%. Non-magnetic. Most chalcopyrite occurs as small disseminated interstitial specks. Bornite associated with chalcopyrite. Chalcocite and limonite stains are extreme on 0° to 20° to core axis fractures.	C 117265	41.76	44.81	3.05	100	4382	358	2.1	< 2	2
		44.81 - 47.85 A contact zone with intrusive dyke below. Grey syenite is slightly hornfelsed, finer-grained with equigranular, idiomorphic texture, dark grey-green areas are fine-grained, chlorite ± fine-grained biotite, minor magnetite. Through the upper part of run chalcopyrite as disseminated blebs reaches 3-4%; along healed irregular fractures there is several percent more. Traces of covellite on some blebs of chalcopyrite. The last 1.5 metres of run is limonite stained plus malachite-chalcocite coatings, and shows weak to moderate clay ± sericite alteration. Tiny, degraded-oxidized specks in core are pyrite or chalcopyrite. Run includes 15 cm of white dyke. Contact is irregular over several cm. Lots of coarse pink k-feldspar in first 10 cm of dyke.	C 117266	44.81	47.85	3.04	100	4954	252	3.0	4	2
47.70	73.64	QUARTZ SYENITE DYKE - a buff-coloured, medium to coarse-grained, quartz-rich syenite. Composed of 15-20% quartz, 75-85% k-feldspar (mostly white), 5-10% mafics - mostly altered to hematite ± chlorite ± very fine-grained biotite, all in 2-4 mm blebs, 1% plagioclase in perthite. Quartz is interstitial to k-feldspar and as poorly formed - indistinct quartz eyes. A few pin-heads of sulphide (pyrite?) seen near upper contact. Limonitic staining on all fracture surfaces, generally less than 45° to core axis.										
		47.85 - 50.90 As described above.	C 117267	47.85	50.90	3.05	100	69	7	< .3	< 2	< 2
		50.90 - 53.95 As described above.	C 117268	50.90	53.95	3.05	100	29	13	< .3	< 2	< 2
		53.95 - 57.00 As described above, beginning of a weakly developed, cross cutting quartz-stockwork. 1 mm wide grey quartz veinlets cut at 70 to 90° to core axis. Soft (?) silver metallic (hematite?) carried in veinlets. Density is one every few cm for 30-40 cm, repeat after several metres.	C 117269	53.95	57.00	3.05	100	41	26	< .3	2	2
		57.00 - 60.05 As described above, with weak quartz-stockwork / veinlets, 5-10% pink k-feldspar showing up.	C 117270	57.00	60.05	3.05	100	116	18	< .3	4	< 2
		60.05 - 63.09 As above, run contains several small quartz veinlets. Hematite and limonite spots more prominent than above. Small pieces of syenite about 1 cm diameter, are heavily mineralized with chalcopyrite (+ pyrite?).	C 117271	60.05	63.09	3.04	100	142	19	< .3	< 2	< 2
		63.09 - 66.14 As above, with continuing 1/2 mm quartz-veinlets at 90° to core axis and prominent hematite spots.	C 117272	63.09	66.14	3.05	100	24	14	< .3	< 2	< 2
		66.14 - 69.19 As above, run very broken extensive malachite deposits ± chalcocite on 0-10° fracture surfaces with limonite.	C 117273	66.14	69.19	3.05	90	266	21	< .3	< 2	< 2

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		69.19 - 73.64 As above but with more grey quartz stockwork veinlets, including some at 30° plus 70° to core axis. Also includes several tiny fractures, roughly at 90° to core axis with 1-2 mm pink k-feldspar envelopes. Fractures are filled with 0.1 to 0.5 mm wide grey quartz veinlets carrying small amounts of pyrite.	C 117274	69.19	73.64	4.45	96	68	40	< .3	< 2	< 2
73.64	84.50	BIOTITE PYROXENITE - with the pyroxene showing variable but pervasive alteration to chlorite ± fine grained biotite. Biotite comprises 30-50% or rock. Contact with above syenite is irregular over several cm. Pyroxene comprises 50-60% of this rock with variable alteration to chlorite and epidote. Epidote is about 10% + interstitial k-feldspar is 15-20% of rock. **73.64 - 75.09** Run includes contact zone with some variation in k-feldspar content of the pyroxenite. Initial section of 30-40 cm is fine grained unaltered pyroxenite with minor amounts of cubic pyrite. Then into several broken sections which include medium-coarse grained syenite pieces and fracture faces (generally <30° to core axis) coated with limonite and hematite. Some sections include up to 60% coarse pink k-feldspar. Thin grey 1 mm wide quartz-stockwork veinlets cut through pyroxenitic sections at 80-90° to core axis.	C 117276	73.64	75.09	1.45	98	488	19	0.4	2	6
		75.09 - 79.17 Green biotite pyroxenite showing variable chlorite alteration of pyroxenes, as described above. Continuing cross-cutting thin quartz veinlets / stockwork, although limited to a few veinlets now coarse-grained k-feldspar segregations (or veins?) to 2 cm thick cut through core at irregular orientations. Biotite-rich for last metre. Magnetic.	C 117277	75.09	79.17	4.08	100	121	7	< .3	7	7
		79.17 - 81.05 Fine grained epidote-chlorite altered pyroxenite. Numerous k-feldspar veinlets ranging from 1 mm to 1 cm in size and oriented from 45 to 90° to core axis cut through several runs here. Veinlets thicker than 3 mm often carry large concentrations of biotite, and minor amounts of magnetite.	C 117278	79.17	81.05	1.88	100	200	9	0.3	< 2	3
		81.05 - 82.84 As described above, epidote ± chlorite altered pyroxenite with k-feldspar-biotite veining. Very epidote rich toward bottom of run.	C 117279	81.05	82.84	1.79	100	457	3	0.5	2	4
		82.84 - 84.50 Grey syenite for first 90 cm with 20% very fine-grained biotite and 2-3% fine magnetite. Continuing cross cutting pink k-feldspar veinlets 2-6 mm wide and cutting core at 60-80° to core axis. Toward bottom of run (last 40 cm) core becomes very pyroxene and biotite rich (80% combined). Includes interstitial k-feldspar to 1 cm forming weak oikocrystic texture. Each k-feldspar includes numerous pyroxene crystals. Highly magnetic toward bottom of run.	C 117280	82.84	84.50	1.66	100	568	59	< .3	9	23
84.50	92.99	QUARTZ SYENITE - as described from 47.70 to 73.64 above. Contact above is abrupt, curved at 30-45° to core axis. Contact cuts / truncates k-feldspar veinlets in biotite pyroxenite.										

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		84.50 - 87.48 First 20 cm by contact contain some medium-grained pyrite and 20% coarse-grained pink k-feldspar. A fine, weakly developed quartz-stockwork has 1-2 mm pink k-feldspar alteration. Envelopes on veinlets 1 mm wide filled with quartz and chalcopyrite blebs. Limonitic halos around degraded mafic centres.	C 117281	84.50	87.48	2.98	100	37	16	< .3	< 2	< 2
		87.48 - 90.53 Quartz syenite as described above, continuing veinlets with k-feldspar alteration envelopes.	C 117282	87.48	90.53	3.05	100	61	16	0.3	< 2	< 2
		90.53 - 92.99 As described above. Last few centimetres, above contact has 1% disseminated blebs of chalcopyrite.	C 117283	90.53	92.99	2.46	100	80	15	0.4	< 2	< 2
92.99	101.29	BIOTITE PYROXENITE, and MAFIC-RICH SYENITE. A 8.30 m interval showing a wide variation in composition and grain size.										
		92.99 - 93.48 Biotite-rich, weakly chlorite altered pyroxenite.										
		93.48 - 94.39 Fine to medium grained grey syenite with 10-15% very fine-grained biotite. Chalcopyrite is disseminated as small, irregular, interstitial to k-feldspar, blebs locally reaching 2-3%, average 1% with minor amounts of bornite, locally reaching 1%.	C 117284	92.99	96.50	3.51	100	1155	47	0.7	5	7
		94.39 - 99.81 Coarse-grained pink syenite with 20-40% fine to medium grained biotite, chlorite-epidote altered pyroxene. Grades into and out of mafic patches of biotite pyroxenite. Sulphides are variable, locally reach 10% combined over a few centimetres (5% pyrite, 5% chalcopyrite) but a short distance away there are only traces of sulphide. Epidote alteration dominates over chlorite toward bottom of interval. Malachite staining is noted on some fracture surfaces. This descriptive interval includes a 20 cm section of quartz syenite cut by tiny quartz veinlets carrying pyrite and chalcopyrite as described above. The chlorite-altered, mafic rich pink syenite is very magnetic. The intensely epidote altered sections are not magnetic.	C 117285	96.50	99.81	3.31	100	971	58	0.3	3	9
		99.81 - 101.29 Biotite pyroxenite with variable chlorite alteration and irregular patches / veins of coarse pink k-feldspar.	C 117286	99.81	101.50	1.69	100	1286	20	0.5	6	23
101.29	101.50	QUARTZ SYENITE as described above.										
101.50		END OF HOLE.										

Lorraine Project Diamond Drill Log
DDH: 2001-52

Mincord Exploration Consultants Ltd.
for Eastfield Resources Ltd.

Property: Lorraine	**Total Length:** 152.40 m	DIP TESTS	**Start Date:** August 10, 2001
Grid Cord:	**Core Size:** NQTW	Footage (m) / Dip Measured / Dip Corrected: 152 / -54° / -45°	**Completion:** August 11, 2001
Elevation: 1757 m	**Azimuth:** 35.5° (GPS Corrected)		**Logged By:** Jay W. Page
Section:	**Inclination:** -45°		**Date logged:** August 21-25, 2001

NOTES: Bishop Area. GPS Location (corrected): UTM 348362.1 E 6200066.3 N (NAD 83) PAD: "A"

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION
0	3.05	CASING (10 FEET)
2.25	18.75	MESOCRATIC SYENITE - grey coloured medium-grained, idiomorphic with 70-80% grey k-feldspar, 15-20% mafic (made up of very fine-grained biotite ± chlorite / epidote) 5% magnetite giving strong magnetic character. **2.25 - 6.10** Grey syenite as described above, run includes several irregular pink-grey k-feldspar "veins" cutting core at 30 to 45° to core axis and about 1 cm wide. No sulphides seen. **6.10 - 9.14** As described above, somewhat more broken than above. Chlorite-epidote on some 30° to core axis fracture faces. **9.14 - 12.19** As above. A rubbly section at 10.50 looks like a broken up breccia that was cemented with chlorite and epidote. **12.19 - 15.24** As above, large magnetite blebs to 1 cm give an extremely strong magnetic character to core. No sulphides seen. **15.24 - 18.75** Grey syenite as above. At 16.75 there are several very thin quartz veinlets cutting at 45° to core axis and varying from 2-8 mm wide (including k-feldspar alteration envelopes). A string of tiny striated pyrite blebs within the veinlet (as a selvage?). Chalcopyrite is found as tiny disseminated blebs, locally reaches 0.5%, but average is much less. Continuing magnetic.
18.75	26.22	MELANOCRATIC SYENITE - dark grey magnetite and mafic rich syenite. Colour tone is only a bit greyer than above mesocratic syenite, but magnetite has increased substantially. **18.75 - 21.34** Dark grey syenite as above, includes some sections of lighter grey (mesocratic) syenite. Massive, but irregular coalescing veins of magnetite suggest a breccia although fragments are indistinct. Some k-feldspar rich patches include blebs of chalcopyrite and bornite. Some "very average" looking pieces of dark syenite carry up to 1% chalcopyrite, 0.25% bornite but average for run is much less. Dominant mafic is variably biotite-chlorite altered pyroxene. **21.34 - 24.38** Dark grey syenite as above. Continuing magnetite rich, 5-10% disseminated small specks of magnetite, plus sections in which magnetite forms a matrix to a weakly developed syenite breccia. Chalcopyrite occurs as small disseminated blebs up to 0.5% to 1.0% but very patchy, usually associated with a few blebs of bornite. Average is probably 0.1-0.2%.

SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
C 117301	2.25	6.10	3.85	100	61	2	< .3	6	2
C 117302	6.10	9.14	3.04	90	179	11	< .3	2	4
C 117303	9.14	12.19	3.05	98	721	281	< .3	8	11
C 117304	12.19	15.24	3.05	100	678	58	0.5	2	2
C 117305	15.24	18.70	3.46	100	347	20	< .3	< 2	2
C 117306	18.70	21.34	2.64	100	1327	122	0.6	4	7
C 117307	21.34	24.38	3.04	100	2097	175	1.1	4	7

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		24.38 - 26.22 Dark grey syenite as above. Patchy chalcopyrite as disseminated blebs, average is only a minor amount.	C 117308	24.38	26.00	1.62	100	1803	336	0.9	3	8
26.22	30.48	MESOCRATIC SYENITE - grey syenite, slightly lighter colour than above due to higher percentage of k-feldspar and an increase in grain size, but very gradational. Magnetite content varies from 1% to 6%. Includes some mafic rich sections. **26.22 - 30.48** Grey syenite as above. K-feldspar rich sections show more epidote alteration, mafic rich sections have more biotite-chlorite alteration. Pyrite and chalcopyrite blebs are noted in cross-cutting k-feldspar bands that cut core axis at 80-90°. This run shows a wide range of variability with a number of biotite-chlorite rich sections of 10-20 cm long plus magnetite-rich sections and there is little to distinguish it from the melanocratic sections.	C 117309	26.00	30.48	4.48	100	873	31	0.6	86	9
30.48	74.74	MELANOCRATIC SYENITE - with magnetite breccia and minor amounts of mesocratic syenite. Felsic sections, in close contact with the mafic / magnetite rich parts, often have up to 1% chalcopyrite and minor bornite, traces elsewhere. **30.48 - 33.53** As above, a mixture of light and dark grey syenite, becoming more mafic with depth. Mafics reach 50-60% of core through most of lower half of run, mainly composed of fine-grained biotite, chlorite altered pyroxene and minor epidote. Coarse-grained irregular masses of magnetite yield an impression of a weakly developed breccia; Magnetite forms the matrix to large and small fragments of syenite. Some mafic-rich spots that are cut by magnetite seams are mineralized with blebs of chalcopyrite, bornite, and rarely coated with covellite.	C 117310	30.48	33.53	3.05	100	693	11	< .3	3	3
		33.53 - 36.58 Mafic and magnetite-rich syenite for first 80 cm then becoming more mesocratic to a pink-grey syenite for next 85 cm, including a short pink, coarse-grained section. Pink-grey syenite is mineralized with 0.25% chalcopyrite, traces of bornite. Lower half of run is finer-grained grey syenite cut with many 10° to 40° fractures filled with 0.2 to 1 mm wide chlorite deposits. Mineralized with up to 2% chalcopyrite over 2-3 cm. Most of run has only traces of chalcopyrite. Larger chlorite-filled fractures, 5 mm wide, at 30° to core axis carry cubes of pyrite.	C 117311	33.53	36.58	3.05	100	618	17	0.4	3	2
		36.58 - 39.62 Mafic rich syenite with magnetite breccia. The magnetite is often very coarse grained, but still essentially forms the matrix in the breccia / stockwork. Several k-feldspar-rich sections also show pronounced epidote alteration, along with pervasive chlorite alteration. Run is poorly mineralized with only a trace of chalcopyrite in the more felsic parts.	C 117312	36.58	39.62	3.04	100	174	23	< .3	10	14
		39.62 - 42.67 Mafic rich syenite with magnetite breccia as above. Run shows considerable variety between pink and grey syenite, and also variety in amount of alteration and grain size. Much of the core shows pervasive,	C 117313	39.62	42.67	3.05	100	93	8	< .3	3	2

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		but weak chlorite alteration of pyroxenes. K-feldspar rich sections show the most epidote alteration, including as k-feldspar vein selvages (an irregular 1 cm thick vein at 41.80). Minor / traces of pyrite and chalcopyrite noted.										
		42.67 - 45.72 Magnetite breccia in a mafic-rich syenite as described above. Extensive chlorite-epidote alteration. Mafics comprise 30-50% core. No sulphides seen.	C 117314	42.67	45.72	3.05	100	128	10	< .3	< 2	5
		45.72 - 48.77 As described above, epidote alteration extensive in k-feldspar rich areas. Purplish tinge on some magnetite suggests that some bornite may be mixed in with magnetite.	C 117315	45.72	51.82	6.1	100	62	3	< .3	2	7
		48.77 - 51.82 As described above. Very fine pin points of sulphide noted in syenitic parts of core.										
		51.82 - 54.86 As described above. Magnetite breccia is present but not as pronounced as previous runs. Very fine-grained pyrite, often as tiny striated cubes, is found disseminated in the rock, and associated with magnetite rich spots. Brown tarnished spots in the magnetite are coated with indigo blue spots (covellite?) and suggesting that the underlying mineral may be bornite. Hematite coatings on low angle fractures (0-10° to core axis) are common. At 52.30 a 1.5 cm wide calcite vein cross-cuts core at 90° with a k-feldspar envelope and discontinuous pyrite selvage.	C 117316	51.82	54.86	3.04	100	85	1	< .3	3	3
		54.86 - 57.91 Strongly developed magnetite breccia, otherwise as described above. Fine-grained, pyroxene-rich grey syenite. Coarse-grained, pink-feldspar patches and cross-cutting bands (80-90° to core axis) have irregular epidote-rich patches. Variable chlorite alteration of pyroxene, ranging from complete replacement to unaltered. Minor disseminated pyrite.	C 117317	54.86	57.91	3.05	100	80	3	< .3	5	5
		57.91 - 60.96 As described above but with more k-feldspar and epidote-rich patches. Chlorite-rich fracture fillings cut core at 30° to core axis. Magnetite breccia becomes dominant toward bottom of run, occupies about 50% of core, in places has k-feldspar interstitial to magnetite.	C 117318	57.91	60.96	3.05	100	23	2	< .3	5	5
		60.96 - 64.01 As described above. Magnetite breccia veins less common but thicker, to 3-4 cm and often as mixtures of magnetite, hematite and chlorite. In a few spots biotite forms a vague selvage to the magnetite veins and pyrite is noted along the contact between the magnetite and some fragments.	C 117319	60.96	64.01	3.05	100	28	6	< .3	< 2	3
		64.01 - 67.06 As above, but more k-feldspar and epidote-rich than previous holes. Magnetite less intensely developed in upper part of run, but becomes very strong towards the bottom of this and the next run. Very epidote-rich and there is a powdery chlorite coating on a 5° to core axis fracture. Minor amounts of pyrite noted on some fracture surfaces. Most of the k-feldspar is pink.	C 117320	64.01	67.06	3.05	100	44	2	< .3	3	9
		67.06 - 70.10 Magnetite-brecciated grey, mafic-rich syenite. Patchy chlorite-epidote alteration. Coarse biotite books within the magnetite. Minor amounts of pyrite associated with the magnetite. Small pyroxene crystals are the primary mafic mineral in the syenite with interstitial	C 117321	67.06	70.10	3.04	100	38	10	< .3	2	4

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		k-feldspar. The pyroxene shows variable alteration to chlorite.										
		70.10 - 73.15 As above. Continuing intense chlorite and epidote alteration. End of magnetite breccia.	C 117322	70.10	73.15	3.05	100	59	6	< .3	2	2
		73.15 - 74.74 As above but without magnetite. Continuing mafic-rich and with pervasive chlorite epidote alteration.	C 117323	73.15	74.74	1.59	100	71	1	< .3	< 2	3
74.74	128.41	MESOCRATIC SYENITE - pink and grey syenite with local mafic-rich sections.										
		74.74 - 77.76 Initial part of run is chlorite altered mafic-rich. At 75.10 a 1.5 cm wide quartz vein cuts core at 40-45° to core axis, carries a small amount of cubic pyrite. Core than becomes very pink coloured k-feldspar rich. Chalcopyrite and pyrite are formed as disseminated small blebs in a number of spots, including grey syenite patches. Both locally reach 1%, but on average are only minor amounts. Very little magnetite except in finer-grained grey syenite areas, which are magnetic. As noted above, pyrite is found in upper part of interval, most commonly as cubes. Bornite is found as rare small blebs in lower part of run with chalcopyrite in pink syenite.	C 117324	74.74	78.00	3.26	100	586	10	< .3	4	11
		77.76 - 78.00 A short, 24 cm of biotite pyroxenite, contacts irregular. Magnetic pyroxene is pervasively altered to chlorite.										
		78.00 - 83.29 Grey and pink syenite, medium-grained with 10-15% biotite, minor chlorite, 2% magnetite, in general this run has a fairly light colour tone. Chalcopyrite noted with some degraded, biotite-rich mafic centres.	C 117325	78.00	83.29	5.29	100	338	5	< .3	3	2
		83.29 - 83.45 A short, 16 cm section of biotite pyroxenite, moderate but pervasive chlorite alteration of pyroxenes magnetic.	C 117326	83.29	86.50	3.21	100	4697	372	3.8	4	11
		83.45 - 86.50 Grey syenite, finer-grained than above. Magnetic, 2-4% fine-grained specks of magnetite. Well mineralized with 2-3% chalcopyrite and 0.5 to 1.0% bornite. All as disseminated small blebs. A few patches of coarser-grained pink k-feldspar are weakly mineralized, as is the lower part of run which in addition to the k-feldspar is chlorite-epidote altered.										
		86.50 - 88.39 A coarser-grained section of mafic rich syenite, mafics comprise about 50% of the core, 15-20% coarse biotite, 30-40% pyroxene showing various degrees of chlorite alteration. Sulphide mineralization continues but is coarser-grained and sparser. Average may be 1% chalcopyrite, 0.5% bornite.	C 117327	86.50	88.39	1.89	100	1279	120	0.7	6	14
		88.39 - 91.44 Grey "dirty" syenite as described above. At 83.45-86.50 well mineralized with up to 2-3% bornite 3% chalcopyrite in places, average 0.5 to 1% for both. Small amounts of chalcopyrite and pyrite are found in tiny 1 mm wide fractures (generally 0-20° to core axis) that are otherwise filled with chlorite.	C 117328	88.39	91.44	3.05	100	4645	449	4.5	8	28
		91.44 - 95.17 As described above, but slightly more coarser grained. Continuing well mineralized, in many places bornite exceeds chalcopyrite, both locally reach 3-4% but average is closer to 1/2%. Magnetic. At 94.10 a 9-10 cm thick, white quartz vein cuts core at 45° to core axis, coarse-grained, has cavities, vugs, non-mineralized.	C 117329	91.44	95.17	3.73	100	4578	586	4.4	9	20

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		95.17 - 96.40 A coarser-grained and more mafic rich section than above. Mafics comprise 50-70% of interval of which 40-50% is biotite 15-20% is chlorite, magnetic. Mineralization is weaker than above, chalcopyrite averages 0.5%, traces bornite.	C 117330	95.17	97.54	2.37	100	166	5	< .3	3	2
		96.40 - 98.57 Medium-grained, grey-pink syenite with 15% biotite. Minor disseminated, fine-grained pyrite is associated with biotite rich centres, often found as cubes. Minor chalcopyrite is disseminated in patches. 2% magnetite.	C 117331	97.54	100.58	3.04	100	133	7	< .3	< 2	< 2
		98.57 - 99.50 Medium grained, mafic-rich syenite is described between 95.17 and 96.40 composed of 30-40% biotite, 20-30% chlorite, 20-30% grey feldspar, 20-30% pink k-feldspar, 2% magnetite. Minor disseminated specks of sulphide.										
		99.50 - 100.19 Grey syenite with fine-grained irregular blebs of altered mafics (altered to biotite-chlorite + ?). Trace chalcopyrite disseminated and fracture controlled pyrite. Fractures are thin, with <1 mm thick quartz veins and oriented at 5-15° to core axis. Disseminated pyrite is often near a visible fracture.										
		100.19 - 101.67 Medium grained section of mafic-rich syenite as described above at 98.57-99.50.	C 117332	100.58	103.63	3.05	100	153	5	< .3	3	7
		101.67 - 102.00 Pink, fine-grained syenite, 10% fine-grained pin points of sulphide.										
		102.00 - 102.87 Biotite pyroxenite with irregular k-feldspar vein 1-2 cm thick, becoming more pink k-feldspar rich with depth. Minor-traces of pyrite.										
		102.87 - 103.70 Mafic rich syenite with 30-60% mafics composed largely of biotite, chlorite altered pyroxene, chlorite ± epidote. Moderately magnetic. Traces of sulphide noted.	C 117333	103.63	106.68	3.05	95	85	9	< .3	< 2	4
		103.70 - 104.22 Pink coarse to medium grained syenite. Traces of cubic pyrite. Weakly magnetic.										
		104.22 - 106.68 Mafic rich syenite. Mafics vary from 30% to 90% (over short intervals). Composed dominantly of chlorite altered pyroxene, biotite + minor epidote. Weakly magnetic core is broken toward bottom of run, has hematite on fracture surfaces.										
		106.68 - 108.42 Mafic rich syenite as described above.	C 117334	106.68	109.73	3.05	100	74	5	< .3	3	8
		108.42 - 110.27 Mafic rich syenite but with a medium-grained idiomorphic equigranular texture. Slightly trachytic in spots with poorly developed flow banding. More epidote than observed in most runs, about 10% epidote. Mafics comprise about 50% of rock. Largely biotite and pyroxene + chlorite. Minor chalcopyrite, moderately magnetic. Pyrite on a 30° fracture to core axis.	C 117335	109.73	112.78	3.05	100	393	7	< .3	4	7
		110.27 - 111.10 Pink, medium-grained syenite with patches of grey syenite. Disseminated pyrite and chalcopyrite blebs associated with mafic centres and with grey syenite patches.										
		111.10 - 111.92 Idiomorphic, equigranular mafic rich syenite as described between 108.42 to 110.27. Mafics interstitial to k-feldspar.										
		111.92 - 112.29 Pink syenite as described above at 110. 27 - 111.10.										

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		112.29 - 112.95 Idiomorphic k-feldspar in mafic-rich syenite, similar to above described intervals but more mafic rich. K-feldspar laths floating in biotite-pyroxene-chlorite matrix.	C 117336	112.78	115.82	3.04	100	557	121	3.2	3	6
		112.95 - 115.82 Mafic rich syenite showing much of the variability described above but more gradational and for shorter intervals. Mafic-rich intervals are pyrite (often as striated cubes) rich to 4%. Trace chalcopyrite.										
		115.82 - 118.87 As described above, mafic syenite which in this run shows considerable variability in mafic content from 10% to 90%. Mafic-rich parts contain up to 1% fine-grained disseminated chalcopyrite. Pyrite noted on some 45° to core axis fractures. Includes a few, very minor quartz veins, about 1 mm thick, at 10° to core axis.	C 117337	115.82	118.87	3.05	100	250	36	< .3	2	8
		118.87 - 121.92 Mafic rich syenite grading into pyroxenite near top of run. Entire run shows a moderately well developed quartz stockwork with many veinlets 1-2 mm wide and at all orientation, larger grey quartz veins are very irregular. All veining contains several percent pyrite as cubes, coalescence of vein envelopes has resulted in pyrite disseminated through much of the core. Only minor amounts of chalcopyrite usually as larger blebs with pyrite. Veinlets with pink part of k-feldspar envelopes appear to have more chalcopyrite blebs associated with them.	C 117338	118.87	121.92	3.05	100	599	131	1.0	< 2	10
		121.92 - 124.97 Mafic rich syenite showing rapid / gradational variations in mafic content as described above. Only a few quartz veinlets as described in run above. Much of run has about 50% mafics (biotite - pyroxene - chlorite). Mafic sections have 1-2% pyrite, minor chalcopyrite.	C 117339	121.92	124.97	3.05	100	454	33	< .3	3	5
		124.97 - 127.50 Mafic-rich melanocratic syenite showing frequently grading into pyroxenite and back into syenite. Dominant mafic is fine-grained pyroxene showing variable chlorite alteration plus fine-grained biotite. Syenitic sections show alignment below banding of k-feldspar laths with mafic matrix. Disseminated fine-grained pyrite in mafic-rich sections.	C 117340	124.97	128.41	3.44	100	148	23	< .3	3	7
		127.50 - 128.41 Medium-grained pink syenite. Chalcopyrite found as 2 mm blebs in fractures at 5° to core axis. None seen away from fractures. Pyrite noted as disseminated cubes to 1%.										
128.41	129.40	BIOTITE PYROXENITE (**128.41 - 129.40**) - showing pervasive chlorite alteration of pyroxene. 10-15% k-feldspar, 5% epidote. Minor disseminated pyrite. Core broken into gravel at end of run.	C 117341	128.41	129.40	0.99	99	14	1	< .3	3	< 2
129.40	152.40	*MESOCRATIC SYENITE - pink and grey syenite with numerous mafic rich* sections. Chlorite and epidote alteration common. Moderately magnetic.										
		129.40 - 132.62 Pink syenite with many mafic rich sections, mafics range from 30% to 80%, and are commonly altered to chlorite. Epidote comprises up to 30% of rock in some places, often associated with magnetite rich spots. Trace of sulphide noted as tiny pink points.	C 117342	129.40	132.62	3.22	100	38	6	< .3	7	28

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		132.62 - 136.82 Mafic rich pink syenite. A few sections display weak to moderately well developed flow banding and sub-parallel alignment of k-feldspar (3-5 mm) laths. From 135.83 to 136.23 large k-feldspar laths / crystals to 2 cm float in a matrix of medium grained (2 mm) mafic rich syenite. 1-2% magnetite; pyrite blebs noted on a 15-20° fracture surface.	C 117343	132.62	136.82	4.2	100	300	7	< .3	2	11
		136.82 - 140.21 Mesocratic pink syenite in grey patches. Mafic rich in a few short intervals. K-feldspar (pink) displays crystal alignment in several locations (near flow banding?); these spots also have 2-3 times more epidote than other areas (up to 10%). Minor chalcopyrite is noted as 2-3 mm blebs on some fracture faces. Pyrite, both as cubes and as blebs, is found on numerous annealed fractures. The fractures have a whole variety of orientations, mineralization appears to be most common on fractures less than 45° to core axis. Magnetite 2-3%.	C 117344	136.82	140.21	3.39	100	84	1	< .3	2	10
		140.21 - 143.26 As described above. Hematite, limonite and pyrite noted on a 45° to core axis fracture face. A few dark areas are very magnetite rich.	C 117345	140.21	143.26	3.05	100	143	13	< .3	3	10
		143.26 - 146.36 Grey mesocratic syenite as described above, with most of the run displaying a trachytic texture from sub-parallel alignment of k-feldspar laths.	C 117346	143.26	146.30	3.04	100	178	3	< .3	3	9
		146.36 - 149.35 As described above, run ends in an epidote-rich section where epidote reaches 30-40%.	C 117347	146.30	149.35	3.05	100	190	4	< .3	6	12
		149.35 - 152.40 As described above, flow banded grey syenite, more epidote-rich at beginning of run, more mafic-rich at end of run. Low angle (5-10° to core axis), 8 mm k-feldspar and epidote veinlet. Powdery chlorite and carbonate coat fractures at 0-10° to core axis.	C 117348	149.35	152.40	3.05	100	126	5	< .3	6	19
152.40		END OF HOLE.										

Property: Lorraine	**Total Length:** 202.69 m	DIP TESTS		**Start Date:** August 11, 2001
Grid Cord:	**Core Size:** BQTW	Footage (m) / Dip Measured / Dip Corrected		**Completion:** August 13, 2001
Elevation: 1808 m	**Azimuth:** 39.6° (GPS Corrected)	202 / -56° / -48°		**Logged By:** Jay W. Page
Section:	**Inclination:** -48°			**Date logged:** August 25-30, 2001

NOTES: Bishop Area. GPS Location (corrected): UTM 348220.6 E 6200010.1 N (NAD 83) PAD: "G"

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
0	21.34	CASING (70 feet, of which 34 feet [sic] / 10.36 m is above the collar).										
10.27	36.04	MESOCRATIC SYENITE - grey, medium to coarse grained syenite with short mafic-rich intervals. Mafics (pyroxene) altered to chlorite ± biotite. Alteration is variable, being intense and texture distinctive in upper mafic centres, while individual / small clusters of pyroxene crystals are weak to non-altered. Core is non-magnetic. Note: measurements are from surface, not from drill pad level. **10.27 - 13.46** Grey syenite as described above. No sulphides seen.	C 117351	10.27	13.46	3.19	100	378	16	< .3	3	14
		13.46 - 16.76 As described above, mafic (chlorite) rich spots often form band like features, cutting core at 45° to 90° to core axis.	C 117352	13.46	16.76	3.30	100	1028	86	0.3	6	20
		16.76 - 19.81 As described above, but slightly more pink coloured. Cut by a 2 cm k-feldspar vein at 19.40. Epidote patches at 19.70.	C 117353	16.76	19.81	3.05	100	1238	64	1.0	6	11
		19.81 - 23.86 As described above. Grey syenite with irregular grey patches of fine-grained pyroxene, and fine-grained biotite. Core is weakly mineralized with fine-grained chalcopyrite and bornite as disseminated specks.	C 117354	19.81	23.86	4.05	100	329	16	< .3	7	15
		23.86 - 26.85 Mafic-rich, melanocratic syenite - mafics comprise up to 75% of the rock, composed mainly of pyroxene, masses of chlorite (often pyroxene) and biotite. Continuing non-magnetic. Coarse-grained k-feldspar bands to 2-3 cm wide cut core at 45° to core axis. No sulphide mineralization seen.	C 117355	23.86	26.85	2.99	100	273	16	< .3	2	14
		26.85 - 28.56 Change to pinkish grey mesocratic syenite. Weakly mineralized with disseminated specks of chalcopyrite, amount is probably less than 0.25%. However, there are extensive coatings of malachite ± azurite on low angle (0-15° to core axis) fracture faces. A few pieces of core are stained throughout. Thick, 2-3 mm, deposits of carbonate are found on some 30° fractures toward bottom of run.	C 117356	26.85	28.56	1.71	98	4532	602	3.8	11	24
		28.56 - 32.00 As described above, but with some chlorite and epidote rich spots that have crumbled to sand / gravel sized pieces. Mafic rich spots are pyroxene-rich showing variable alteration to chlorite. A hematite and carbonate rich part fills a fracture at 20° to core axis at 30.30 metres.	C 117357	28.56	32.00	3.44	98	798	44	0.8	9	35
		32.00 - 36.04 Pink, mesocratic syenite with a variable mafic content, ranging from 10-40%, and composed of chlorite altered pyroxene and fine grained biotite. Traces of sulphide specks.	C 117358	32.00	36.04	4.04	100	526	25	< .3	2	27

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
36.04	48.37	MELANOCRATIC SYENITE - several runs of chlorite-altered, mafic-rich rock. Epidote patches common. Contact is gradational with lots of coarse-grained k-feldspar with first 0.5 metres. Many dark areas are largely composed of unaltered pyroxene.										
		36.04 - 39.84 As described above, much of run is composed of 40% pink k-feldspar and 60% mafics, including some small intervals of biotite pyroxenite. Magnetic.	C 117359	36.04	39.84	3.80	100	199	8	0.4	10	10
		39.84 - 41.44 As described above, but broken into a rubble with numerous hematite coated fracture surfaces. Pervasive chlorite alteration of mafics.	C 117360	39.84	41.44	1.60	100	114	5	< .3	8	7
		41.44 - 44.20 As above, but with an increase in mafic content, sections of this run grade into and out of biotite pyroxenite, although the pyroxene is completely altered to chlorite. Poorly developed k-feldspar oikocrysts to 1.5 cm, the oikocrysts (or patches of k-feldspar) contain about 60-80% chlorite altered pyroxene and biotite. Much of this run has a sheared appearance and is broken into gravel and sand sized pieces.	C 117361	41.44	44.20	2.76	100	36	< 2	< .3	5	5
		44.20 - 48.37 As described above, with the centre half of run essentially biotite and chlorite altered pyroxenite. K-feldspar increases to 30-40% by bottom of run. Moderately to strongly magnetic.	C 117362	44.20	47.99	3.79	100	89	< 2	0.4	9	20
48.37	64.66	MESOCRATIC SYENITE - pink syenite with a variable amount of mafics, becoming mafic-rich in places. Occasional short intervals of chlorite - altered pyroxenite. Large blebs of magnetite common.										
		48.37 - 50.29 Pink syenite as described above, with a very broken section of chlorite and massive magnetite. In the mafic-rich section, k-feldspar is medium-grained, euhedral with a mafic matrix.	C 117363	47.99	50.29	2.30	95	748	56	0.9	3	13
		50.29 - 52.98 Medium to coarse grained k-feldspar rich syenite with variable fine-grained euhedral clusters of pyroxene. Variable chlorite and epidote alteration. Large blebs of magnetite to 1-2 cm in size are common in several locations, forming bands that cut the core at 45 to 90° to core axis. Malachite spots and patches are common through middle part of run.	C 117364	50.29	52.98	2.69	100	971	99	0.9	6	9
		52.98 - 55.15 As described above, pink medium grained syenite becoming more fine-grained with depth. Toward the bottom of run, the finer-grained syenite carries minor amounts of chalcopyrite, associated with degraded mafics. Moderately magnetic.	C 117365	52.98	55.15	2.17	100	667	23	0.5	2	7
		55.15 - 57.06 Finer-grained syenite as described at bottom of run. Greyish colour imparted by 15-25% fine-grained euhedral-subeuhedral pyroxene, evenly distributed. Cutting the core at 45-60° to core axis are several 1 mm wide k-feldspar bands (alteration envelopes?). Trace to minor amounts of chalcopyrite as disseminated specks.	C 117366	55.15	57.06	1.91	100	1070	23	1.0	< 2	< 2
		57.06 - 60.02 A mixture of medium grained mesocratic syenite with finer-grained grey syenite as described above. Traces of disseminated specks of chalcopyrite. Most of run contains 15-20% fine-grained euhedral pyroxene crystals.	C 117367	57.06	59.85	2.79	100	409	6	0.6	3	2

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		60.02 - 62.32 Medium to coarse grained, mafic-rich syenite mafics comprise 60% of core, mainly pyroxene, some of which is weakly chlorite-altered, and 4 mm books of biotite. Feldspar is very white coloured. No sulphides seen.	C 117368	59.85	62.48	2.63	100	159	< 2	< .3	4	7
		62.32 - 64.66 Grey syenite as above, but finer-grained. Primary mafics are very fine-grained pyroxene (10-15%) and fine-grained biotite (10-15%). Chlorite alteration is limited to larger mafic centres. Disseminated chalcopyrite as small blebs is found to 0.5% average, local concentrations reach 3% plus minor bornite and covellite.	C 117369	62.48	65.53	3.05	100	1811	46	1.3	3	8
64.66	70.22	MELANOCRATIC SYENITE - coarse-grained syenite with 4 mm books of biotite. Mafics comprise 40-75% of rock with 20% biotite, 30-40% chlorite-altered pyroxene. Very magnetite-rich, locally reaching 10-15%.										
		64.66 - 66.62 Melanocratic syenite as above. Mineralized with up to 1-2% chalcopyrite plus malachite stains. Average is less, about 0.5% chalcopyrite. Traces of bornite.	C 117370	65.53	68.94	3.41	100	5008	499	3.9	8	13
		66.62 - 68.94 Medium-grained, grey syenite with 20-40% mafics (biotite and chlorite-altered pyroxene). Malachite spots associated with larger mafic centres. Minor disseminated chalcopyrite.										
		68.94 - 70.22 Melanocratic syenite, mafic-rich with up to 80% chlorite-altered pyroxene and biotite. Massive magnetite patches to 1-2 cm in the upper part of run. Malachite plus minor covellite is associated with some magnetite blebs. Lower 90 cm of this interval is coarser-grained, with white and pink feldspars, randomly distributed biotite flakes, and chlorite-altered pyroxene, much of which is euhedral. No sulphides seen in this section.	C 117371	68.94	71.15	2.21	100	1887	130	1.4	4	10
70.22	71.15	BIOTITE PYROXENITE - showing variable amounts of chlorite-epidote alteration. Contains approximately 10-15% interstitial feldspars.										
		70.22 - 71.15 No sulphides seen.										
71.15	103.46	MESOCRATIC SYENITE - medium to coarse grained, greyish-pink syenite with minor variations to melanocratic and mafic-rich syenite.										
		71.15 - 74.62 As above, but with patchy epidote and chlorite alterations. Original textures largely destroyed in chlorite-rich sections. White feldspars are soft and chalky, probably clay altered. Weakly magnetic.	C 117372	71.15	74.62	3.47	100	504	37	0.5	4	9
		74.62 - 77.24 Melanocratic syenite with many gradations into and out of grey mesocratic syenite. Pyroxene crystals commonly show little or no chlorite alteration. In short intervals, including the bottom of this interval, pyroxene comprises 70% of rock. Minor blebs of disseminated bornite.	C 117373	74.62	77.72	3.10	100	3010	55	2.5	< 2	7
		77.24 - 77.72 Pinkish-grey mesocratic syenite. Moderately magnetic, mineralized with fine-grained blebs of bornite about 1% plus minor amounts of chalcopyrite.										

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		77.72 - 80.77 As described above, grey mesocratic syenite, medium-grained with irregular patches of fine-grained pyroxenite, 5-10% small 1 mm flakes of biotite. Interval is well mineralized with up to 3% bornite plus 1% chalcopyrite. Minor covellite is associated with bornite which is best developed in mafic centres.	C 117374	77.72	80.77	3.05	100	5932	271	3.7	4	5
		80.77 - 83.82 As described above, but with more epidote ± chlorite alteration patches of pink-orange k-feldspar associated with the epidote suggest late potassic alteration. Amount of bornite has decreased, <0.5% now. Chalcopyrite remains about the same at minor amount. One 6 mm band of k-feldspar cuts the core at 85° to core axis.	C 117375	80.77	83.82	3.05	100	3190	142	1.9	3	5
		83.82 - 86.87 Grey syenite as described above. Patchy epidote and k-feldspar forms vague bands which cut the core at 45° to 90° to core axis. Only traces of sulphide mineralization remain disseminated in the rock, some 45° fractures with k-feldspar alteration envelopes contain a string of blebs of chalcopyrite along the fracture and within the alteration envelope. Chlorite alteration of the pyroxenes is locally intense but variable. Continuing magnetic.	C 117376	83.82	86.87	3.05	100	4168	160	3.1	4	5
		86.87 - 89.92 Grey syenite as described above. Many feldspars have a white chalky appearance, suggesting some degrees of clay alteration. Continuing strongly magnetic, approximately 5% magnetite. Disseminated blebs of chalcopyrite 1%.	C 117377	86.87	89.92	3.05	100	3142	134	2.1	3	5
		89.92 - 92.96 As described above, grey, slightly chalky syenite carrying approximately 1% chalcopyrite for the first metre. Middle section of run is full of pink k-feldspar, much of which forms bands and coalescing alteration envelopes at many angles to core axis. Strongly magnetic. Mineralized with 1-2% chalcopyrite as disseminated blebs is most often associated with mafics. K-feldspar altered section is more highly mineralized than the grey syenite. Lower part of run, approximately one metre, is finer-grained, equigranular and appears slightly hornfelsed (?) 1/2% chalcopyrite.	C 117378	89.92	92.96	3.04	100	1765	29	1.4	3	5
		92.96 - 96.01 A run showing a wide range of alteration types (epidote, k-feldspar and magnetite) and intensity. Greyish-pink syenite to begin with but within 30 cm intense chlorite and epidote alteration obscures primary textures. Large pink k-feldspar crystals enclose patches of epidote. Most of run is overwhelmed by very strong epidote and magnetite alteration. Some of these sections are very fine-grained and hard, suggesting replacement or "flooding" by a silicate. Magnetite forms a coarse, irregular bleb to 2 cm. Small pyrite cubes along a 45° to core axis fracture. A weak stockwork of hairline carbonate veinlets cut core at low angles to c. a., typically 5-20°.	C 117379	92.96	96.01	3.05	100	2227	158	1.4	2	10
		96.01 - 99.30 As described above, patchy and variable epidote and k-feldspar alteration ± magnetite. Short (10-20 cm) intervals of dark green chlorite alteration suggest parts of this run were originally pyroxenite. Continuing magnetic. Traces of sulphide pin-heads in a few spots. Core broken to gravel through part of interval.	C 117380	96.01	99.30	3.29	96	445	28	0.5	5	5

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		99.30 - 103.46 As above, run is highly altered by epidote and k-feldspar alteration. Initial 1.5 metres is extensively fractured into gravel sized pieces. Lower half of run displays the range of alteration described above. Intensity of alteration decreases toward bottom of interval. Pink k-feldspar veinlets ± alteration envelopes are oriented at 45-90° to core axis, and in places cross-cut each other. Chalcopyrite found as disseminated blebs to 0.25 to 0.5%. Core is very equigranular, idiomorphic towards bottom of run.	C 117381	99.30	103.46	4.16	96	339	7	< .3	3	5
103.46	105.63	BIOTITE PYROXENITE - showing intense chlorite alteration grading into massive chlorite and magnetite toward the bottom of the interval. **103.46 - 105.63** Biotite pyroxenite as described above, with the upper part of this interval showing variable, but generally weak alteration of feldspar to epidote ± clay and alteration of pyroxene to chlorite. A k-feldspar veinlet at 45° to core axis is 5 mm wide. No sulphides seen.	C 117382	103.46	105.63	2.17	100	189	7	< .3	3	< 2
105.63	112.32	MESOCRATIC SYENITE - pink syenite with mafic rich sections. **105.63 - 106.23** - Mafic rich syenite mineralized with about 1% chalcopyrite and minor bornite. **106.23 - 108.20** Pink syenite, with minor chalcopyrite and bornite. Several fractures at 30-60° to core axis carry blebs of chalcopyrite. **108.20 - 112.32** Pink syenite as above, with several small chlorite-epidote rich patches. Weakly mineralized with tiny chalcopyrite blebs, several 30° to 45° to core axis fractures carry some blebs in a weak alteration envelope.	C 117383	105.63	108.20	2.57	100	3261	103	2.4	5	17
			C 117384	108.20	112.32	4.12	100	1129	36	0.5	3	4
112.32	113.63	POTASSIUM-FELDSPAR, BIOTITE PYROXENITE - pyroxenite with mafic-rich syenite sections. Weak patchy alteration of pyroxene to chlorite. **112.32 - 113.63** Biotite pyroxenite with an initial 20 cm of mafic rich syenite. Upper contact is gradational, irregular but abrupt contact below. Pyroxene crystals are euhedral and show weak chlorite alteration. Interstitial k-feldspar shows weak oikocrystic development with 1-2 cm k-feldspar crystals which include up to 80% pyroxene crystals.	C 117385	112.32	113.63	1.31	100	103	7	< .3	5	7
113.63	179.90	MESOCRATIC SYENITE - medium-grained pinkish-grey syenite. Fine-grained biotite ± pyroxene comprise 20-25% of core. **113.63 - 117.35** Moderately magnetic, no sulphides seen. **117.35 - 120.40** Grey syenite as described above, cut by a "stockwork" of hairlines of fine pyroxene crystals (± chlorite alteration), most commonly oriented at 0-10° and 45-60°. No sulphide mineralization appears to be associated with it. Run also includes patches of pink k-feldspar and epidote-rich spots.	C 117386	113.63	117.35	3.72	100	197	9	< .3	3	2
			C 117387	117.35	120.40	3.05	100	40	4	< .3	2	< 2

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		120.40 - 123.44 Grey syenite as described above, continuing weakly developed stockwork, fractures marked by paper thin layers of chlorite altered pyroxene, traces of quartz and carbonate. Continuing magnetic, k-feldspar veinlets 5 mm thick cut core at 30-90° to core axis. No alteration envelopes or mineralization associated with veinlets.	C 117388	120.40	123.44	3.04	100	150	10	0.3	< 2	< 2
		123.44 - 126.49 As above, but with more chlorite-epidote alteration. A good part of this run is finer-grained and pyroxene-rich (35-50%). Hypidiomorphic with euhedral pyroxene. A 1 mm carbonate veinlet at 90° to core axis has pyrite cubes in a weakly developed alteration (pyrite-carbonate) envelope. Biotite common toward bottom of run.	C 117389	123.44	126.49	3.05	100	130	4	0.5	< 2	< 2
		126.49 - 129.54 As described above. Grey syenite with 35-50% fine-grained pyroxene and biotite. Continuing strongly magnetic, including a moderately well developed stockwork / in-situ breccia with coarse-grained magnetite matrix. Several k-feldspar veinlets to 1 cm thick cut core at many angles. Carbonate deposits in several fractures at moderate angles 30-60° to core axis.	C 117390	126.49	129.54	3.05	100	161	4	0.6	2	2
		129.54 - 131.70 As described above, strongly magnetic grey syenite.	C 117391	129.54	131.70	2.16	100	97	2	< .3	< 2	4
		131.70 - 132.77 Coarse grained grey syenite, grey feldspar crystals to 3 cm long. White feldspar matrix to grey feldspar and biotite flakes gradational contacts.	C 117392	131.70	132.77	1.07	100	31	4	< .3	< 2	< 2
		132.77 - 135.63 Grey syenite as described several runs above. Mafic content varies from 25-60%, largely biotite, more mafic-rich sections have large amounts of chlorite altered pyroxene. Continuing magnetic, up to 5% magnetite includes one short section of pegmatitic k-feldspar, magnetite and pyroxene.	C 117393	132.77	135.63	2.86	100	356	12	0.4	< 2	8
		135.63 - 137.85 As described above, grey syenite, with mafic and magnetite rich sections. Includes several, short, irregular very coarse-grained k-feldspar patches.	C 117394	135.63	137.85	2.22	100	142	7	< .3	5	8
		137.85 - 140.93 An epidote-rich interval with up to 60% epidote in spots. Pink k-feldspar makes up the balance of the core. Includes a 1-2 cm seam of coarse-grained magnetite. About half the run includes mafic-rich syenite that is only weakly epidote altered. Biotite most common mafic, followed by pyroxene. Several low angle fractures 10-30° to core axis carry 1 mm carbonate fillings. A short section of 10 cm is cut by multiple hairline fractures and the zone is full of 5% cubic pyrite.	C 117395	137.85	140.93	3.08	100	201	7	< .3	< 2	5
		140.93 - 144.78 As described above over several intervals, grey mafic-rich syenite with a 40 cm section of epidote-magnetite-rich core in the centre. Entire interval is very magnetic. Some low angle fractures (0-10° to core axis) are filled with very thin <0.5 mm deposits of chlorite.	C 117396	140.93	144.78	3.85	100	127	3	< .3	< 2	3
		144.78 - 147.83 Grey syenite as described above. Continuing very magnetic. No sulphides seen.	C 117397	144.78	147.83	3.05	100	1002	148	0.4	< 2	< 2
		147.83 - 150.09 As described above, grey syenite, but with about 50% of interval showing weak to moderate epidote alteration. Trace of sulphides as tiny pin-points disseminated through core.	C 117398	147.83	150.09	2.26	100	1326	303	1.3	5	2

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		150.09 - 153.92 As described above, grey syenite with several very coarse-grained patches of k-feldspar. Chalcopyrite is found as very fine-grained blebs disseminated through core. Found in amounts of 0.25 to 0.5%, locally reaches 1%. Also small intervals of epidote and chlorite alteration.	C 117399	150.09	153.92	3.83	100	826	183	0.7	< 2	< 2
		153.92 - 156.97 Similar to that described above, grey syenite with fine-grained mafic-rich sections. Mafic content varies from 30-60%, and varies between mesocratic and melanocratic. Patchy epidote and k-feldspar alteration. Traces of disseminated chalcopyrite near top of interval, grows to about 1% chalcopyrite and minor bornite by end of run.	C 117400	153.92	156.97	3.05	100	1902	300	1.6	3	< 2
		156.97 - 160.02 An interval of variable grey syenite, with the majority being fine-grained, chlorite altered mafic-rich melanocratic syenite. Sulphide mineralization highly variable from patches of 1-2% bornite over 5 cm to 1-2% chalcopyrite over 10 cm, very patchy. Also includes several short intervals of mesocratic syenite and coarse-grained k-feldspar rich spots.	C 117401	156.97	160.02	3.05	100	4427	363	3.1	5	2
		160.02 - 163.07 As described above, grey syenite. Several short sections are mineralized with up to 1% very fine grained bornite, average is much less. One k-feldspar veinlet is heavily mineralized with chalcopyrite over 1 cm. Veinlet cuts core at 90° to core axis. Continuing patchy chlorite-epidote alteration.	C 117402	160.02	163.07	3.05	100	4511	244	2.7	3	2
		163.07 - 166.12 As described above, grey syenite. Epidote alteration becoming pronounced and locally intense toward bottom of run. Continuing magnetic, trace of bornite and chalcopyrite seen.	C 117403	163.07	166.12	3.05	100	2494	74	1.7	< 2	< 2
		166.12 - 169.16 Run begins as above, with epidote altered grey syenite and grading into fine-grained mafic rich syenite (melanocratic). Thin strings of pyroxene ± chlorite fill fractures at 0-10° and 90° to core axis. Several of these fracture faces are exposed by splitting and are well mineralized by chalcopyrite and epidote, especially fractures at 0-10° to core axis. Blebs of bornite are found in weakly defined mineralized envelopes. Chalcopyrite appears dominant in the fracture fillings, while bornite is dominant in the envelopes. Magnetite is also prominent in the fractures.	C 117404	166.12	169.16	3.04	100	2750	81	1.7	4	2
		169.16 - 172.21 Grey syenite as described above. Continuing weakly developed stockwork of fractures marked by chlorite-pyroxene, and on some, low angle (0-10° to core axis) fractures (but not all) also fillings of chalcopyrite and bornite. Balance of interval is weakly mineralized with disseminated chalcopyrite and bornite blebs. Many pieces of core are mineralized in this run, average about 0.75% bornite, 1 1/2% chalcopyrite.	C 117405	169.16	172.21	3.05	100	9388	159	6.5	4	5
		172.21 - 174.28 Identical to run described above, chalcopyrite and bornite fracture controlled and in alteration envelopes.	C 117406	172.21	174.28	2.07	100	15526	275	10.3	3	3
		174.28 - 174.56 Coarse-grained syenite with very white feldspars, patchy chlorite and 10% medium-grained biotite.										
		174.56 - 178.31 Grey syenite showing variable mafic content from 10% to 50% largely biotite and chlorite. Epidote alteration is patchy and	C 117407	174.28	178.31	4.03	100	687	23	0.4	2	9

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		variable, increasing in intensity toward bottom of run. Also several short intervals of mafic rich syenite. K-feldspar veinlets cut core at 60-80° to core axis and carry pyrite, which is often cubic. Syenite becomes more pink-coloured through this interval.										
		178.31 - 179.90 Pink k-feldspar-rich syenite with patchy but locally intense epidote alteration. The epidote alteration appears to be fracture controlled, forming alteration envelopes. Coarse-grained, orangish coloured k-feldspar veins cut the core at 60-80° to core axis and carry cubic pyrite and minor small blebs of chalcopyrite. Balance of this run is unmineralized. The run ends with a fairly extensive low angle (10° to core axis) fracture filled with 1 cm of gravel rock and carbonate.	C 117408	178.31	179.90	1.59	99	103	8	< .3	3	12
179.90	202.69	MAFIC RICH SYENITE - with numerous local variations to pyroxenite and melanocratic / mesocratic syenite.										
		179.90 - 183.93 An interval that begins with chlorite-altered pyroxenite and grades through melanocratic mafic-rich syenite to mesocratic syenite. Weakly developed k-feldspar oikocrysts to 3 cm in the pyroxenite. Epidote alteration increases with amount of feldspar toward bottom of run. Last metre of interval displays some clay alteration of feldspars leaving them bleached and chalky looking.	C 117409	179.90	183.93	4.03	100	190	5	< .3	5	17
		183.93 - 187.45 Grey syenite as described in numerous runs above. A magnetite stockwork develops through the last metre of run. Magnetite accompanied by pyroxene ± chlorite. No sulphides seen.	C 117410	183.93	187.45	3.52	100	109	2	< .3	7	3
		187.45 - 190.50 Grey syenite as described above. Magnetite-pyroxene stockwork is best developed at top of run, becomes weaker with depth.	C 117411	187.45	190.50	3.05	100	139	< 2	0.3	6	3
		190.50 - 193.55 As described above, but displaying more epidote alteration than previously. Much of the epidote appears to be in weakly developed alteration envelopes. Weakly developed magnetite stockwork / veins continues through parts of the interval, cuts the epidote alteration.	C 117412	190.50	193.55	3.05	100	92	< 2	< .3	5	4
		193.55 - 196.60 Run begins as above for 1.5 metres then develops into a short section of coarse-grained intergrown k-feldspar, then into 30 cm of pyroxenite and then grades into pinkish grey syenite again which is mafic rich in spots. Variable epidote-chlorite alteration.	C 117413	193.55	196.60	3.05	100	88	< 2	< .3	< 2	4
		196.60 - 198.64 Coarser-grained syenite than above, chalky, clay-altered feldspars give bleached appearance to core. Continuing magnetic, overall becoming more mafic rich through interval.	C 117414	196.60	198.64	2.04	100	20	< 2	< .3	2	< 2
		198.64 - 201.34 Above interval of mafic-rich syenite grades into biotite pyroxenite. Showing variable patchy chlorite alteration, some feldspars are bleached, weakly clay altered strongly magnetic. A 9 cm thick k-feldspar vein cut core at 80° to core axis at 199.55. No sulphides seen.	C 117415	198.64	201.34	2.70	100	6	< 2	< .3	4	< 2
		201.34 - 202.69 Fine-grained mafic-rich grey syenite as described previously above. Magnetite and biotite rich.	C 117416	201.34	202.69	1.35	100	46	< 2	< .3	2	2
202.69		END OF HOLE.										

Property: Lorraine	**Total Length:** 167.64 m	DIP TESTS		**Start Date:** August 21, 2001
Grid Cord:	**Core Size:** BQTW	Footage (m) / Dip Measured / Dip Corrected		**Completion:** August 23, 2001
Elevation: 1808 m	**Azimuth:** 49.3° (GPS Corrected)	167 / -55° / -46°		**Logged By:** Jay W. Page
Section:	**Inclination:** -45°			**Date logged:** September 9-10, 2001

NOTES: Upper Main Area. GPS Location (corrected): UTM 347720.9 E 6200479.9 N (NAD 83) PAD: "K"

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
0	3.05	CASING (10 FEET)										
3.05	6.10	MELANOCRATIC SYENITE - a mixed interval of mostly dark, mafic-rich syenite which is truncated by a quartz-syenite dyke. **3.05 - 6.10** Run begins with pink, k-feldspar-rich syenite for 40 cm then becomes more fine-grained (hornfelsed?), dark grey-coloured, and containing 20-25% fine-grained biotite. Extensive malachite coatings on fracture faces (5 and 45° to core axis) and as disseminated spots. Weakly magnetic.	C 117451	3.05	6.10	3.05	100	3479	151	1.9	3	3
6.10	9.68	QUARTZ SYENITE DYKES. **(6.10 - 9.68)** - a leucocratic medium to coarse-grained quartz syenite dyke with k-feldspar alteration zones in the host syenite above and below contacts. Each zone is approximately 50 cm wide and dominated by pinkish-orange k-feldspar. Chlorite-altered pyroxene forms 15-20% of alteration zones and is medium / coarse grained, suggesting it is altered host syenite rather than contact / alteration zone of dyke. Quartz syenite dyke from 6.60 to 9.18 is medium / coarse grained, very white coloured, with 5-10% hematite-biotite spots. Fracture in contact zone are limonitic. Non-magnetic, contacts at 30° to core axis.	C 117452	6.10	9.68	3.58	100	209	38	< .3	3	< 2
9.68	167.64	MESOCRATIC SYENITE - grey (light bluish-grey on dry, split surface) syenite with weakly developed fabric defined by 10-15% medium-grained biotite and 10% pyroxene laths (± weak chlorite alteration). Small patches of pink k-feldspar are 2-6 mm wide alteration envelopes around closed fractures. Epidote (± chlorite alteration of mafics) is associated with pink k-feldspar alteration. Moderately magnetic. **9.68 - 12.20** As described above, no sulphides seen.	C 117453	9.68	12.20	2.52	100	547	44	0.3	9	11
		12.20 - 14.83 As above, but lower 56 cm have very coarse grained k-feldspar to 3-4 cm long, oriented at 70-90° to core axis with finer-grained interstitial mafics including 3-4% magnetite. In last 15 cm, there is malachite ± chalcocite and limonite coating 5° to core axis fracture.	C 117454	12.20	14.83	2.63	100	646	49	< .3	11	8
		14.83 - 18.28 A run of broken core, much of it made up of pink and grey syenite. Fractures at 0° and 45° to 90° are coated with malachite and chalcocite, lower part of run very limonite stained. An idiomorphic, pale bluish-white interstitial mineral to k-feldspar maybe nepheline, reaches 5% in a few spots; may also be altered / stained k-feldspar. Orange k-feldspar	C 117455	14.83	18.28	3.45	100	4147	604	2.3	2	8

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		alteration envelopes at 45-60° to core axis, 2-4 mm thick are common. Biotite is most common mafic, 10-15%, much less pyroxene pyrite reaches 1-2% in lower 50 cm of run.										
		18.28 - 21.34 As above, grading over 1.8 metres into grey syenite. Grey syenite contains about 1% very fine grained sulphide. Some larger blebs identified as chalcopyrite, many of the very fine-grained specks look like pyrite. Mineralization maybe in 3-4 cm wide weakly developed alteration envelopes. Continuing magnetic.	C 117456	18.28	21.34	3.06	100	1581	124	0.6	4	4
		21.34 - 23.65 Coarse-grained pink k-feldspar-rich syenite for first 1.18 metres with superimposed orange-pink 1 cm wide k-feldspar alteration *envelopes at 45-60° to core axis. Remaining balance of run is grey syenite,* mineralized with 0.5% fine, disseminated chalcopyrite. Locally reaching 2-4% over a few cm. Malachite and chalcocite deposits are common on 5-10° to core axis fractures. Short intervals of chalcopyrite-rich core appear associated with 60° to core axis fractures.	C 117457	21.34	23.65	2.31	100	3001	177	2.1	8	13
		23.65 - 26.63 As described above but with several limonite stained sections to 30 cm long. These sections have lots of tiny rust spots (after pyrite). Remaining sulphides appear to be chalcopyrite. Balance of run is grey syenite with 0.5 to 1.0% tiny specks of pyrite and chalcopyrite. Much of the sulphide appears to be in weakly developed alteration envelopes (sulphide ± k-feldspar) of annealed fractures. Orange k-feldspar-rich spots also include malachite, epidote ± sericite alteration as irregular patches.	C 117458	23.65	26.63	2.98	100	3164	135	2.0	3	4
		26.63 - 30.48 As described above but with more variations, orange k-*feldspar patches ± epidote, magnetite rich spots* (75% magnetite over 10 cm) with associated chalcopyrite blebs. Many low angle fractures are limonite-coated ± malachite and chalcocite. A stockwork of fractures cuts through the core, and is moderately well developed over 50 cm, fractures are marked by lines of biotite and cut core at 80-90° to core axis. Pyrite blebs associated with fractures, minor chalcopyrite.	C 117459	26.63	30.48	3.85	100	2432	276	1.6	< 2	4
		30.48 - 33.53 Pink, medium-grained mesocratic syenite. Chalcocite and malachite staining on fracture faces common, fractures at 0-10°, 45°, 60° and 85° to core axis. Occasional malachite spots in core. 5% disseminated biotite. Weakly magnetic. No sulphides seen.	C 117460	30.48	33.53	3.05	100	2176	131	1.2	5	2
		33.53 - 37.48 Pink syenite as described above. Gradually becoming more mafic-rich over last 2 metres. Last 60 cm are dark grey syenite with 20-25% biotite and cut by orange k-feldspar alteration envelopes / fractures at 45-60° to core axis. These fractures carry 1-2 mm cubic pyrite and irregular blebs of pyrite to 3 mm.	C 117461	33.53	37.48	3.95	100	1560	91	0.8	3	2
		37.48 - 39.62 Grey syenite as described above, but with an initial 50 cm of orange-pink k-feldspar and epidote altered core. Balance, from 37.98 to 40.18 is melanocratic grey syenite with 20-30% biotite, 25-35% chlorite (after pyroxene) and 40-50% grey k-feldspar. Magnetic k-feldspar laths show sub-parallel alignment perpendicular to core axis. Core includes many small patches of pink-orange k-feldspar and epidote.	C 117462	37.48	39.62	2.14	100	425	26	< .3	8	17

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		39.62 - 42.67 As described above, but grades into grey syenite with numerous coarse-grained pink sections. Limonite stained fracture surfaces. Run ends with some broken and limonite-stained core.	C 117463	39.62	42.67	3.05	100	440	47	< .3	22	30
		42.67 - 45.72 Grey syenite with small irregular patches of coarse-grained pink k-feldspar and associated epidote. Continuing magnetic. Finer-grained section at bottom of run is amorphous, (k-feldspar replacement ?) [and] is mineralized with 2-3% chalcopyrite over 10 cm.	C 117464	42.67	45.72	3.05	100	1016	49	0.6	4	13
		45.72 - 48.76 As above, grey syenite is mineralized with very fine-grained pin-points of sulphide. Some is pyrite (cubic) but some may be chalcopyrite. Cross-cutting k-feldspar (pink) alteration envelopes to 1 cm wide are oriented at 15-30° and 45° to core axis. Two 6 mm quartz veins cut core at 65 and 85° to core axis. Grey syenite is mineralized with very-fine grained specks of pyrite, average maybe 0.1% pyrite.	C 117465	45.72	48.76	3.04	100	1020	73	0.5	24	34
		48.76 - 51.82 As above, some of very fine-grained sulphide may be chalcopyrite. Core is in general finer grained and darker. Fractures at 10-45° to core axis commonly carry malachite, chalcocite and limonite.	C 117466	48.76	51.82	3.06	100	1159	71	0.5	3	6
		51.82 - 54.86 As above, but with more variation in grey colour tone, generally darker in colour, and finer-grained. Some magnetite clots. K-feldspar-rich pink patches are irregular over 10-15 cm of core in several spots. Also as 80-90° to core axis. Alteration envelopes. Much of the grey syenite contains traces to minor amounts of tiny pin-points of sulphide, some of which appears to be chalcopyrite. Fracture surfaces at 0-20° to core axis are covered with chalcocite stains.	C 117467	51.82	54.86	3.04	100	1299	72	0.9	4	4
		54.86 - 57.91 A more broken and more limonitic run which grades into grey syenite as described above. Fracture surfaces (0-60° to core axis) are coated with limonite, malachite and chalcocite. Amount of magnetite is increasing to 3-5%. Cubic pyrite found on some fracture surfaces.	C 117468	54.86	57.91	3.05	100	915	49	0.5	4	8
		57.91 - 60.96 Greyish pink syenite with extensive coatings of limonite, goethite ± chalcocite on 5-10° fracture surfaces (to core axis).	C 117469	57.91	60.96	3.05	100	864	20	< .3	16	8
		60.96 - 64.01 As above, but with more extensive coatings of limonite-goethite with cubic pyrite on both low angle 0-15° to core axis and 60-90° to core axis fractures. At 63.00 there is a series of fractures (0-90° to core axis) with extensive coatings of malachite and chalcocite (only). Fractures are often marked by concentrations of biotite. Last 23 cm of run is magnetite-rich (>60%) with epidote and limonite. Traces of tiny specks of chalcopyrite disseminated in grey syenite.	C 117470	60.96	64.01	3.05	100	1997	66	< .3	4	8
		64.01 - 67.06 As described above, grey mesocratic syenite. A weakly developed stockwork of fractures, now marked by lines (<0.1 mm to 1.0 mm wide) of biotite cut the core at all angles. Moderately magnetic.	C 117471	64.01	67.06	3.05	100	924	47	0.5	10	19
		67.06 - 69.20 Grey syenite as above, but with decreasing grain size through last two runs, appears to be a hornfelsing effect. Weakly developed 60° to core axis. Envelopes of k-feldspar (grey) ± pink k-feldspar, very fine grained biotite and magnetite cut the core. A few are also oriented at 30-45° to core axis. Epidote forms weak selvages and fracture fillings. Minor	C 117472	67.06	70.10	3.04	100	1078	43	0.9	< 2	6

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		amounts of malachite on 45-60° to core axis fracture faces.										
		69.20 - 70.10 Grey syenite but with 65% pink k-feldspar envelopes that coalesce to form continuous pink syenite oriented at about 45° to core axis but highly variable. Low angle fractures 0-15° are coated with malachite and chalcocite.										
		70.10 - 73.15 First 50 cm is as described above, but with increasing amounts of epidote and chlorite. Several 2-4 mm wide fractures at 80-90° to core axis are filled with biotite and blebs of chalcopyrite. Balance of run is grey syenite as described above. Tiny specks of sulphide noted at top of run, mineralization becoming stronger through run, reaching 0.50-1.0% chalcopyrite plus minor bornite. Some phlogopite mica noted in better mineralized parts. Possibly a potassic alteration of biotite mica. Mineralization patchy. Weakly magnetic.	C 117473	70.10	73.15	3.05	100	1522	56	0.8	2	2
		73.15 - 76.20 A more variable run than above, with rapid variations between pink, grey and dark grey syenite. Cross cutting k-feldspar alteration envelopes at 30-45° to core axis. Fine disseminated chalcopyrite and bornite found through entire run, but perhaps a bit more strongly mineralized in dark grey syenite.	C 117474	73.15	76.20	3.05	100	1808	58	1.0	< 2	6
		76.20 - 79.25 A highly variable run with a metre of light buff-grey syenite with occasional malachite spots which grades into a hypidiomorphic medium grained grey syenite with euhedral to sub-euhedral 1 mm pyroxene crystals. Weak chlorite alteration. Sulphide mineralization has died out.	C 117475	76.20	80.47	4.27	100	2534	123	1.8	4	5
		79.25 - 80.47 Medium grey syenite as described above with irregular buff-light grey section sometimes cutting through core at 45° to core axis fracture surfaces.										
		80.47 - 82.30 A buff-grey syenite grading into a limonitic-rusty sections of syenite with an abrupt contact at 45° to core axis from grey syenite above. Extensive and heavy coatings of malachite on both irregular fracture faces and these at 45 to 60° to core axis. Rusty spots (after pyrite?) in limonitic sections.	C 117476	80.47	82.30	1.83	100	6445	439	6.0	17	41
		Contined:										
		82.30 - 85.34 Light pinkish-grey syenite with numerous 30-60° to core axis fractures coated with limonite, malachite and chalcocite. Patches and streaks of grey syenite are well mineralized with 1-2% very fine specks and blebs of chalcopyrite along with 0.25 to 0.5% bornite. Very little mineralization in pink syenite. Grey syenite is magnetic, and finer grained than the pink syenite or the mineralized grey syenite above. Lower 1/2 metre is broken.	C 117477	82.30	85.34	3.04	98	7728	310	6.6	2	6
		85.34 - 88.39 A run of very broken core and numerous fracture faces, including some with hematite coatings, also malachite and chalcocite spots, minor carbonate.	C 117478	85.34	88.39	3.05	96	2977	232	2.3	17	30

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		88.39 - 91.44 Pinkish-brown / orange syenite. Run begins with an irregular magnetite vein to 1 cm thick. Lower 30 cm of run includes a weak stockwork of 1-3 mm thick veinlets oriented at 60° to core axis and carrying magnetite, + biotite, calcite and chalcopyrite blebs, also grey k-feldspar. A few dark grey feldspar patches (small, 5-10 cm) are well mineralized with chalcopyrite and bornite. Minor amount of chalcopyrite in the pink syenite appears to be associated with fractures (about 45° to core axis).	C 117479	88.39	91.44	3.05	100	1637	100	0.8	< 2	4
		91.44 - 95.50 A highly variable section which includes several gradations between grey and pink syenite in general, the grey and pink syenite in general, the grey syenite is mineralized with about 0.5 to 1.0% disseminated chalcopyrite and minor bornite, while the pink syenite contains only minor traces of chalcopyrite that is disseminated but is mineralized by chalcopyrite blebs in 60° to core axis fractures. These fractures cross-cut magnetite veinlets. The grey syenite is also mineralized by fracture controlled chalcopyrite at 45°, 60° and 0° to core axis.	C 117480	91.44	95.50	4.06	100	2767	163	3.8	3	4
		95.50 - 97.54 "Grey" syenite that is overwhelmed by 90% pink k-feldspar alteration envelopes which often contain epidote. Most of these envelopes cut the core at about 80° to core axis. Chalcocite spots on some fracture surfaces.	C 117481	95.50	97.54	2.04	100	1679	91	0.7	4	9
		97.54 - 100.58 As described above, with possibly more epidote, especially on most fracture faces. Grey sections are magnetic.	C 117482	97.54	100.58	3.04	100	2449	96	1.3	< 2	5
		100.58 - 103.63 An interval which includes dark melanocratic syenite and grey with pink alteration envelopes. A moderately well developed stockwork of thin, 1 mm wide, magnetite veinlets of all directions includes blebs to 3 mm of chalcopyrite plus minor pyrite. Veinlet alteration envelopes containing chalcopyrite are in general weakly developed but are strong in a few spots.	C 117483	100.58	103.63	3.05	100	4526	157	3.6	2	6
		103.63 - 106.68 As described above, but with more variation between pink, grey and mafic-rich grey syenite. Fracture-controlled chalcopyrite is most commonly found in 30-60° to core axis range. Disseminated bornite and chalcopyrite common but best developed in dark grey syenite mineralization is patchy but locally reaches 1% combined. Continuing magnetic. Many fracture surfaces are coated with limonite and malachite.	C 117484	103.63	106.68	3.05	100	4116	106	3.3	< 2	3
		106.68 - 109.73 Grey syenite with indistinct bands and wisps of pinker syenite at 80° to core axis. 15-20% fine biotite. In a few spots pink k-feldspar becomes sub-porphyritic with crystals to 4 mm. Minor disseminated chalcopyrite and bornite but patchy. No fracture controlled primary sulphide mineralization. Malachite and chalcocite on some 45° to core axis fractures.	C 117485	106.68	109.73	3.05	100	4065	69	3.4	5	4
		109.73 - 112.78 Grey syenite as described above, includes a few irregular magnetite veinlets to 1 cm wide. Minor patches of disseminated chalcopyrite and bornite.	C 117486	109.73	112.78	3.05	100	2455	116	1.5	4	5
		112.78 - 115.82 Grey syenite as described above. Minor amounts of chalcopyrite seen near a fracture (45° to core axis) malachite coating some moderate fracture faces (30-45° to core axis).	C 117487	112.78	115.82	3.04	100	1755	86	0.5	< 2	3

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		115.82 - 117.86 Grey syenite as described above with several pink sections. Several mafic-rich / chlorite bands, 1 cm wide, cut the core at 75 to 80° to core axis. Several patches of mafic-rich syenite are composed of 50% chlorite, 15-20% biotite, 30-40% k-feldspar. Minor malachite on fracture surface.	C 117488	115.82	119.90	4.08	100	981	52	< .3	5	6
		117.86 - 119.90 Mafic rich syenite composed of 50-75% chlorite, 15-20% coarse-grained biotite, 20-40% pink k-feldspar. Very rubbly and ground up toward 118.87, then limonitic, with jarosite and a 40 cm zone of extensive epidote alteration, followed by 30 cm of 90% plus pyroxene (fine-grained pyroxenite). The last 20 cm of the interval is limonite stained.										
		119.90 - 120.66 Mottled patches of fine-grained pyroxene (60%) and patches of buff / white medium-grained k-feldspar.	C 117489	119.90	121.92	2.02	100	922	27	< .3	6	3
		120.66 - 121.92 Pale grey syenite with the first 60 cm being a transition / gradation from the above pyroxene-rich syenite. Mineralized with disseminated chalcopyrite and trace bornite. A poorly developed banding gives a weak gneissic appearance at 65 to 80° to core axis.										
		121.92 - 124.97 Light-grey syenite as described above with a weakly developed gneissic texture at 85° to core axis continuing disseminated chalcopyrite mineralization to 0.5% with minor bornite. Strongly magnetic.	C 117490	121.92	124.97	3.05	100	1733	104	0.7	4	4
		124.97 - 127.55 Light grey syenite as described above.	C 117491	124.97	127.55	2.58	100	660	29	< .3	< 2	2
		127.55 - 131.06 Pink syenite with numerous grey streaks and patches, and displaying considerable variability in grain size. A fine-grained k-feldspar and magnetite rich "flooded" section at 129.50, 6 cm long, cuts core at 45 to 60° to core axis and carries cubic pyrite. From 128.40 to 128.79 is a very coarse-grained interval of pink and grey, mafic-poor syenite. Epidote increases to 5-10% through last metre of run.	C 117492	127.55	131.06	3.51	100	599	69	0.4	4	2
		131.06 - 134.11 As described above, but more fractured with limonitic + jarosite coatings on fractures. Traces of chalcopyrite, especially in grey syenite patches.	C 117493	131.06	134.11	3.05	100	836	26	0.4	< 2	2
		134.11 - 137.16 As described above, mostly pink syenite with grey streaks giving a weakly developed gneissic texture but not mafic enough to be described as migmatitic. Traces of pyrite and chalcopyrite. Grey streaks generally at 75-90° to core axis.	C 117494	134.11	137.16	3.05	100	766	36	< .3	3	6
		137.16 - 140.21 As described above but with more variation between grey and pink syenite. Pink sections generally coarser grained and are accompanied by patches of epidote. Grey areas contain minor amounts of pyrite and chalcopyrite while the pink syenite is unmineralized.	C 117495	137.16	140.21	3.05	100	577	35	< .3	4	4
		140.21 - 143.26 Grey and pink syenite as described above. More pink and coarser-grained for first metre, grey for balance of run. Overall becoming more dominated by grey syenite than the above several runs. Trace pyrite.	C 117496	140.21	143.26	3.05	100	647	22	< .3	2	6
		143.26 - 146.30 As above but cut by pink k-feldspar veinlets / alteration envelopes to 5 mm wide at 30 to 45° to core axis. A few malachite spots noted near by. A weakly developed fabric is defined by elongate, flat lenses	C 117497	143.26	146.30	3.04	100	849	27	0.6	2	4

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION
		of chlorite + biotite at 60-70° to core axis. In pink k-feldspar-rich parts the fabric relies more on streaks of epidote with chlorite spots for definition.
		146.30 - 149.35 As described above, pink and grey syenite with grey syenite becoming dominant by the last metre of the run. A finer-grained section of grey syenite appears hornfelsed, and carries minor amounts of chalcopyrite. Grey syenite is magnetic, contains 10-20% fine biotite.
		149.35 - 152.40 Grey syenite as described above. Contains small clusters of fine biotite as well as larger (3-4 mm) flakes of biotite. Sub-parallel alignment of biotite helps to define a weak foliation in core of 65-90° to core axis. Core is more pink coloured toward bottom of run.
		152.40 - 155.45 Pinkish-grey syenite with a well developed gneissic texture toward bottom of run, which is caused by dark grey streaks (at 75 to 90° to core axis) of grey feldspar and fine biotite. These areas are mineralized with up to 1% fine disseminated chalcopyrite.
		155.45 - 157.90 Coarser grained pink syenite with foliation at 65-75° to core axis defined by lens-like clots of chlorite-biotite. This interval includes several sections of leucocratic syenite (5% mafics).
		157.90 - 160.00 Leucocratic syenite grading from medium-grained at the top to coarse-grained at the bottom. Lower 50 cm of run is coarse-grained orange syenite which terminates with a 1-2 cm quartz-vein and k-feldspar breccia. No sulphides seen.
		160.00 - 161.54 Pinkish grey syenite becoming more grey and fine-grained magnetite-rich with depth. Minor chalcopyrite noted in the grey areas. Highly magnetic. Also up to 0.5% chalcopyrite noted on fracture / foliation surfaces (defined largely by biotite). Some 60° fracture faces are coated with limonite, malachite and chalcocite.
		161.54 - 164.59 Grey and pink syenite in an variable mixture of pink and grey with magnetite and biotite. Epidote blebs in areas of pink k-feldspars. Minor chalcopyrite found with degraded mafic centres and on 50° to core axis fractures.
		164.59 - 167.64 As described above.
167.64		END OF HOLE

SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
C 117498	146.30	149.35	3.05	100	358	10	< .3	3	5
C 117499	149.35	152.40	3.05	100	630	35	0.3	4	2
C 117500	152.40	155.45	3.05	100	1525	45	0.3	3	< 2
C 117501	155.45	157.90	2.45	100	225	10	< .3	< 2	< 2
C 117502	157.90	160.00	2.10	100	57	22	< .3	< 2	< 2
C 117503	160.00	161.54	1.54	100	1971	102	0.9	4	6
C 117504	161.54	164.59	3.05	100	430	32	< .3	< 2	4
C 117505	164.59	167.64	3.05	100	286	20	< .3	6	5

Property: Lorraine	**Total Length:** 207.26 m	DIP TESTS			**Start Date:** August 23, 2001		
Grid Cord:	**Core Size:** BQTW	Footage (m)	Dip Measured	Dip Corrected	**Completion:** August 25, 2001		
Elevation: 1759 m	**Azimuth:** 58.1° (GPS Corrected)	158	-50°	-42°	**Logged By:** Jay W. Page		
Section:	**Inclination:** -45°				**Date logged:** September 10-13, 2001		

NOTES: Upper Main. GPS Location (corrected): UTM 347658.4 E 6200453.5 N (NAD 83) PAD: Smokey Mountain

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
0	3.05	CASING (10 feet).										
3.05	19.34	LEUCOCRATIC QUARTZ SYENITE - medium - grained, light buff coloured syenite containing 15-20% quartz, 80-85% k-feldspar, 3-5% interstitial mafic (chlorite, biotite ± pyroxene).										
		3.05 - 5.79 Quartz syenite as described above. Some low angle fracture surfaces (<30° to core axis) contain coatings of malachite and limonite.	C 117551	3.05	5.79	2.74	100	555	9	< .3	< 2	< 2
		5.79 - 9.14 As above, some mafics have degraded to limonite spots, leaving boxworks in a few spots. Non-magnetic.	C 117552	5.79	9.14	3.35	100	362	2	< .3	2	< 2
		9.14 - 12.19 As described above. Includes 2 mm fracture fillings of fine-grained quartz syenite displaying myrmekitic textures. Fractures are at 20° to core axis.	C 117553	9.14	12.19	3.05	100	216	< 2	< .3	4	< 2
		12.19 - 15.24 Quartz syenite as described above.	C 117554	12.19	15.24	3.05	100	143	6	0.3	< 2	< 2
		15.24 - 18.28 As described above, but with some limonitic and orange k-feldspar patches.	C 117555	15.24	18.28	3.04	100	165	30	< .3	< 2	< 2
		18.28 - 19.34 Quartz syenite as described above, but with a weakly developed 60° to core axis fracture set filled with hair-line dark quartz veins.	C 117556	18.28	19.34	1.06	100	251	96	0.3	< 2	< 2
19.34	106.68	MESOCRATIC SYENITE - pink syenite which is locally mafic-rich. Mafics consist of chlorite-biotite mixtures which are generally fine-grained and tend to be elongate or lens shaped. Rock is composed of 60-70% k-feldspar, 25-35% mafics. Low angle fractures (10-30° to core axis) are coated with limonite, malachite and chalcocite.										
		19.34 - 21.24 As described above, becoming mafic-rich toward bottom of interval (60-70%). Magnetite reaches 5%. Traces of chalcopyrite in some mafic centres.	C 117557	19.34	21.24	1.90	100	2512	122	1.7	4	10
		21.24 - 22.63 Leucocratic syenite - 95% K-feldspar, beginning medium-grained and grading into very coarse grained to pegmatitic. Abrupt contact above at 60° to core axis. Minor interstitial chlorite and biotite.	C 117558	21.24	22.63	1.39	100	93	< 2	< .3	2	< 2
		22.63 - 24.38 A highly variable interval which includes pink syenite, pegmatitic syenite and massive coarse-grained biotite. Mafics in syenite largely altered to chlorite and / or biotite. Weakly magnetic. Cross-cutting k-feldspar (pink) and epidote alteration envelopes are at low angles (5-10° to core axis).	C 117559	22.63	24.38	1.75	100	212	11	< .3	< 2	3

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		24.38 - 27.43 Grey mesocratic syenite with pink k-feldspar. Rich patches and short intervals. Where measurable, the pink parts cross-cut the grey syenite at 70-80° to core axis. Mafics 15-20% fine chlorite + biotite ± pyroxene. Moderately magnetic.	C 117560	24.38	27.43	3.05	100	333	17	< .3	3	3
		27.43 - 30.48 As described above. A number of fracture surfaces (10°, 30°, 45° to core axis) are coated with limonite, malachite and chalcocite. Disseminated chalcopyrite and traces of bornite are noted in weak envelopes along these fractures and associated with mafic centres in the core.	C 117561	27.43	30.48	3.05	100	1219	293	< .3	5	4
		30.48 - 33.53 As described above. Several 20-30° fractures are filled with 2-3 mm of coarse biotite with extensive malachite staining.	C 117562	30.48	33.53	3.05	100	1217	275	< .3	5	7
		33.53 - 36.57 A mixture of grey and pink syenite with some pinkish-orange k-feldspar rich sections, dark grey magnetite rich spots and some 45 - 60° fractures filled with an earthy brownish-black material to 1 cm thick, plus chlorite and biotite. Where pink or grey syenite cuts through the other, the gneissic texture cuts the core at 65 to 90° to core axis. Pink k-feldspar rich spots also include epidote streaks with the mafic banding. Traces of pyrite noted with some mafics.	C 117563	33.53	36.57	3.04	100	1921	116	0.4	4	4
		36.57 - 39.33 Very similar to that described above but with more pink k-feldspar rich syenite and epidote coated 5-10° fractures (to core axis) a few mafic-rich spots are mostly biotite.	C 117564	36.57	39.33	2.76	100	1070	34	< .3	3	5
		39.33 - 42.50 Continuing pink syenite with minor grey patches. Small 2-3 mm wide grey k-feldspar and magnetite veinlets carry small amounts of cubic pyrite and cut the core at 45° to core axis. Low angle fractures carry epidote and chlorite coatings, fractures oriented at 10-15° to core axis.	C 117565	39.33	42.50	3.17	100	178	22	< .3	5	7
		42.50 - 42.80 Greyish pink syenite as described above.	C 117566	42.50	44.46	1.96	100	159	17	< .3	< 2	< 2
		42.80 - 44.46 Very coarse-grained to pegmatic pink to rusty orange k-feldspar. Contains 3-5% magnetite blebs to 5 mm.										
		44.46 - 45.72 Run begins with an irregular hornfelsic contact zone in which there are rapid changes between fine and coarse-grained mafic rich (magnetite and biotite) and rusty zones. Broken up by many irregular fractures. Dark, fine-grained patches are mineralized with several percent cubic pyrite, trace chalcopyrite. Balance of run (after 45.00) is grey-pink syenite with 30-40% chlorite and biotite mafic spots. Low angle (0-10° to core axis) are slightly limonitic and carry small spots of chalcocite.	C 117567	44.46	45.72	1.26	100	1899	171	0.7	8	10
		45-.72 - 48.77 Greyish-pink syenite as described above after 40 cm of finer-grained mafic rich melanocratic syenite. This initial section is rusty coloured but only traces of pyrite are noted. Balance of run is grey-pink syenite cut in several places at 90° to core axis by bands of epidote and fine grained biotite and magnetite.	C 117568	45.72	48.77	3.05	100	459	35	< .3	2	7
		48.77 - 51.82 Greyish pink syenite as noted above. Traces of disseminated chalcopyrite. Low angle fractures (0-10° to core axis) are coated with limonite and minor malachite ± chalcocite.	C 117569	48.77	51.82	3.05	100	1405	82	< .3	4	3

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		51.82 - 54.86 Greyish pink syenite. As described above, becoming more finer grained and idiomorphic. Magnetite content increasing to 2-3% with depth. Disseminated tiny specks of chalcopyrite to 0.5%, malachite, ± chalcocite and limonite stains common on low angle fractures, about 5-10° to core axis. More mafic-rich toward bottom of run.	C 117570	51.82	54.86	3.04	100	2394	77	1.3	< 2	2
		54.86 - 57.91 *Grey syenite, varying to pink syenite as described above.* Minor to 0.25% specks of disseminated chalcopyrite. Malachite and minor chalcocite on 0-30° to core axis fracture surfaces.	C 117571	54.86	57.91	3.05	100	1821	74	0.9	< 2	3
		57.91 - 60.00 Grey syenite as described above with a 50 cm section of coarser pinkish-orange syenite at the bottom of run. 2-4% epidote through most of run. Minor tiny disseminated specks of chalcopyrite, but less than above. Malachite and minor limonite on 30° to core axis fracture surfaces.	C 117572	57.91	60.00	2.09	100	4531	226	2.0	13	7
		60.00 - 64.08 *Grey syenite with pink patches, similar to above but more* mafic-rich, darker grey tone, more fine disseminated magnetite, and a finer idiomorphic grain size. Disseminated chalcopyrite specks are found most commonly in the dark grey syenitic phase. Locally reaches 2-3%, average for run closer to 0.5-1.0%.	C 117573	60.00	63.64	3.64	100	2173	127	1.0	2	4
			C 117574	63.64	64.08	0.44	100	2194	47	0.8	2	2
		64.08 - 67.06 Pink syenite becoming more grey toward bottom of run, also finer-grained, and idiomorphic. Strongly magnetic with grey areas. Patchy disseminated chalcopyrite mineralization. Locally reaches 2%, trace pyrite.	C 117575	64.08	67.06	2.98	100	1932	61	0.7	10	5
		67.06 - 70.10 Pink and grey syenite. Very similar to that described above. Patchy disseminated mineralization, largely chalcopyrite with minor amounts of pyrite, is concentrated in the grey magnetite-rich syenite, which is most common toward the bottom of the run. Chalcopyrite locally reaches 2-3%. Mafic-rich section (15 cm) at bottom of run is mineralized with larger blebs of chalcopyrite which appears to be fracture controlled (45 to 60° to core axis).	C 117576	67.06	70.10	3.04	100	1239	25	0.5	< 2	3
		70.10 - 73.15 Grey syenite with coarse-grained pinkish-orange k-feldspar patches and overprints. Initial grey section of 30 cm contains 2-3% chalcopyrite, mostly in 45-90° to core axis fractures, minor fracture controlled pyrite and minor disseminated chalcopyrite. Irregular k-feldspar (± quartz) veinlets to 50 mm contain blebs of magnetite and chalcopyrite, and separate the grey from pink syenite. Pink syenite contains 1-2% fracture (45 to 90° to core axis) controlled chalcopyrite. Balance of run alternates between pink and grey syenite both of which are mineralized with disseminated and fracture controlled chalcopyrite to 1%. Minor pyrite, mostly associated with steep fractures.	C 117577	70.10	73.15	3.05	100	1941	29	1.2	< 2	3
		73.15 - 76.99 Similar to that described above but with more contrast between orangish-pink and grey syenite sections. Almost entire run is broken up by irregular and both high and low angle fractures marked by thin seams of chlorite, calcite ± quartz. Blebs of chalcopyrite and lesser pyrite are controlled by the fractures with the mineralization forming selvages within the veins or within weak envelopes. On average, run contains about 1-2% chalcopyrite and 0.5 to 1.0% pyrite. Sections of dark	C 117578	73.15	76.99	3.84	100	1580	73	1.3	< 2	4

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		syenite contain about 1% disseminated chalcopyrite.										
		76.99 - 79.25 Interval of limonitic pink syenite terminating in a broken up earthy, limonite-rich section at the bottom of the run (a fault?). Many irregular fractures, steeper ones tend to carry blebs of chalcopyrite. Terminal zone at bottom includes bleaching, weak clay alteration and minor silicification. Disseminated blebs of chalcopyrite still present, however most blebs are larger than in above runs, and are associated with mafic centres.	C 117579	76.99	79.25	2.26	95	1976	151	2.6	2	7
		79.25 - 82.39 As described above, especially lower section of last run above. Strongly limonitic and fractured with bleaching ± clay alteration. Extensive limonite and minor malachite on low angle fractures (0-20° to core axis) parts of the last 1.5 metres are grey and pink syenite showing less alteration and containing disseminated and fracture controlled chalcopyrite.	C 117580	79.25	82.39	3.14	99	2461	105	1.3	4	3
		82.39 - 85.34 Pink and grey syenite showing many irregular breakage and fractures. A 5 mm 45° to core axis k-feldspar vein near top of run carries blebs of chalcopyrite. Weak disseminated chalcopyrite continues but strongly mineralized near steep fractures (60-80° to core axis) and irregular coarse magnetite. Fractures, 0-30° to core axis, commonly carry limonite and malachite ± chalcocite.	C 117581	82.39	85.34	2.95	100	2488	125	1.9	2	3
		85.34 - 88.39 Grey, fine to medium grained idiomorphic syenite showing extensive epidote alteration both on fractures and as small patches. Run appears hornfelsed. Small malachite specks suggest prior copper sulphide mineralization. Low angle fractures (0-30° to core axis) are coated with limonite, hematite and malachite. From 86.32 to 86.86 is a coarse to pegmatitic k-feldspar dyke.	C 117582	85.34	88.39	3.05	100	1921	96	0.8	< 2	4
		88.39 - 90.00 As described above; grey, epidote altered syenite.										
		90.00 - 90.59 Mafic-rich, biotite syenite. Biotite comprises 65% to 80% of core, generally 2-4 mm in size. Trace chalcopyrite. 10-15% chlorite.	C 117583	88.39	91.44	3.05	100	1205	66	< .3	3	7
		90.59 - 91.44 Pink and grey, epidote altered syenite as described above.										
		91.44 - 94.49 An interval of pink and grey syenite showing considerable variation in grain size, and epidote alteration. Coarse magnetite veining and clumps are common, do not appear to be related to mineralization. Malachite staining visible on many fracture surfaces, some of which include magnetite as a fracture filling. Most fractures are high angle > 60° to core axis.	C 117584	91.44	94.49	3.05	100	1309	87	0.5	< 2	3
		94.49 - 97.22 Pink k-feldspar-rich syenite showing variable epidote alteration which is often truncated by 45-60° to core axis fractures and is in turn cut by k-feldspar veinlets at 45° to core axis. Fracture surfaces commonly coated with limonite, hematite and minor malachite.	C 117585	94.49	97.22	2.73	100	1726	81	1.2	3	4
		97.22 - 97.78 A short interval of biotite-pyroxenite which contains 15-20% grey k-feldspar. Interval not considered significant enough to break out as a separate unit. Very similar to mafic-rich syenite at 90.00 to 90.59. Again biotite rich but contains 40-60% unaltered pyroxene and little chlorite alteration. Mineralized with 1-2% blebs of chalcopyrite and 0.5 to 1% of	C 117586	97.22	100.58	3.36	100	2580	137	1.4	5	9

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		bornite. Contact with syenite above at 70° to core axis. Low angle fractures at bottom of unit are coated with limonite, hematite and small amounts of malachite. Magnetite veinlets near irregular lower contact. **97.78 - 100.58** Epidote altered syenite as described above. A large amount of variability between pink and grey phases of syenite. **100.58 - 103.63** Grey and pink syenite showing variation between grain sizes and pink and grey phases. Distinct from epidote altered syenite above, contact is from 100.30 to 100.50 with low angle fractures coated with hematite forming the contact. This run is not epidote altered, but contains small lenses and wisps of pyroxenite (sub-migmatitic?) containing blebs of chalcopyrite and bornite. Irregular magnetite veinlets cut through this interval to 1 cm wide, sometimes with pyroxenite / biotite chlorite selvages which are mineralized with chalcopyrite and bornite. Weak mineralized envelopes also exist of disseminated chalcopyrite and bornite. **103.63 - 106.68** Grey syenite varying to mafic-rich syenite over short intervals, includes a short section of pink syenite showing epidote alteration at the bottom of run. Grey syenite has large angular patches (fragments?) of magnetite to 4 cm. Small patches of pyroxenite in contact with the magnetite patches / veins are mineralized with disseminated chalcopyrite and minor bornite. In a couple of spots small bits of pyroxenite display net-textured chalcopyrite enclosing pyroxene grains. Disseminated specks of chalcopyrite are common in some spots but overall patchy. Some magnetite veinlets cut the core at 60-70° to core axis. Weakly developed pink k-feldspar alteration envelopes cut the core at 20-30°, and 45 to 60° and are unmineralized.	C 117587	100.58	103.63	3.05	100	2872	247	1.8	11	12
			C 117588	103.63	106.68	3.05	100	2031	103	1.1	4	10
106.68	125.09	MELANOCRATIC SYENITE and PYROXENITE - mafic-rich with gradations to and from pyroxenite interval includes sections of grey syenite and pyroxenite but in overall more mafic than the mesocratic intervals above. **106.68 - 109.72** Mafic-rich syenite verging on pyroxenite. K-feldspar content varies from 20% to 50%, pyroxene 40-80%, generally as euhedral prisms. Coarse-grained biotite 5-10%. Core in general has a hypidiomorphic texture with k-feldspar interstitial to pyroxene. In grey syenitic sections pyroxene is often chlorite altered. Mafic-rich (60 to 80%) sections are mineralized with disseminated clusters of chalcopyrite and bornite blebs, running at about 1-2% chalcopyrite and 0.5 to 1.0% bornite. Coarse-grained masses of magnetite (to 4 cm) have associated along their margins masses of chlorite ± chalcopyrite and bornite. Moderately to intensely magnetic. **109.72 - 111.43** Very similar to above. Mafic-rich idiomorphic syenite grading into hypidiomorphic pyroxene-rich syenite and feldspar rich pyroxenite. Continuing to be well mineralized with chalcopyrite which is more disseminated and fine-grained in the grey syenite. Mafic centres are more strongly mineralized with larger blebs of chalcopyrite. Some of the	C 117589	106.68	109.72	3.04	100	2166	128	0.9	11	18
			C 117590	109.72	111.43	1.71	100	2093	78	0.7	4	11

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		mafic centres appear to be partly assimilated bits of chlorite-altered pyroxenite. These "pyroxenitic" pieces have sulphide blebs (50-80% chalcopyrite, 20-50% bornite) that displays weak "net" cumulate textures. In the syenite itself (outside the pyroxenite / mafic centres) there are only traces of bornite.										
		111.43 - 112.78 Mafic (pyroxene and biotite) rich syenite as described above, but more mafic. Hypidiomorphic texture with euhedral 0.5-1.0 mm pyroxene, 10-15% coarse biotite and interstitial feldspar. Patchy weak chlorite alteration of pyroxene. 1% chalcopyrite and 1% bornite, both as disseminated blebs, some of which show net-textures.	C 117591	111.43	112.78	1.35	100	2469	165	1.9	12	30
		112.78 - 114.32 Pink and grey syenite showing variable epidote alteration, especially in first 50 cm, although patches exist throughout. Minor amounts of sulphide present as tiny disseminated specks, mostly pyrite. Orange k-feldspar veinlets, 1-2 mm wide, oriented at 35-45° to core axis, have associated pyrite, some of which is cubic.	C 117592	112.78	116.27	3.49	100	1819	81	0.8	5	9
		114.32 - 114.70 Mafic-rich syenite very similar to that between 111.43 to 112.78. Pervasive chlorite alteration but not texture destructive. Well mineralized with 1-2% of both chalcopyrite and bornite.										
		114.70 - 116.27 Pink and grey syenite with some variation between grain size and magnetite content. A 4 mm wide, 60° to core axis k-feldspar vein contain large blebs of chalcopyrite. Patchy disseminated chalcopyrite in minor amounts. Includes a few mafic rich spots and patches of pyroxenite which are mineralized with chalcopyrite and bornite as above.										
		116.27 - 117.88 Pyroxenite and magnetite-rich interval which shows patchy weak chlorite alteration and variations between hypidiomorphic pyroxenite and massive idiomorphic pyroxenite. Mineralized as above with small disseminated patches of chalcopyrite and bornite, except with most mafic parts where chalcopyrite reaches 5% and displays primary net-textures. Some tiny 1 mm quartz stringers cut core at 80° to core axis and have associated cubic pyrite.	C 117593	116.27	117.88	1.61	100	739	36	< .3	3	4
		117.88 - 119.26 Pinkish grey syenite showing pervasive chlorite-epidote alteration. Originally quite mafic (pyroxene) rich in spots. Moderately magnetic, hematite stain on many low angle surfaces.	C 117594	117.88	119.26	1.38	100	4472	200	3.4	14	41
		119.26 - 122.12 Grey mafic rich syenite showing weak patchy chlorite alteration and numerous magnetite veinlets and patches. Minor epidote alteration. Low angle (0-10° to core axis) fractures are very limonitic and contain minor malachite spots.	C 117595	119.26	122.12	2.86	100	2518	109	0.8	3	8
		122.12 - 125.09 Biotite pyroxenite with minor variations to mafic-rich syenite and magnetite-rich pyroxenite. Run begins with 15 cm of magnetite (fine-grained) rich pyroxenite with up to 5% chalcopyrite. Followed by pyroxenite grading in and out of mafic rich syenite several times, essentially variations in feldspar content from 5-10% to 15-20%. More mafic parts are mineralized with 1-2% chalcopyrite, 2-3% bornite. While mafic rich syenite runs at 0.5-1.0% chalcopyrite and minor to traces of bornite. Net textures	C 117596	122.12	125.09	2.97	100	4434	411	2.8	18	36

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		common with sulphide-rich parts. Magnetite is quite variable, mafic-rich syenite is only weakly magnetic. Small pink syenite zones and veinlets cut across core at 70 to 90° to core axis.										
125.09	131.06	LEUCOCRATIC SYENITE - medium-coarse grained white syenite with up to 10% quartz. Contact with biotite-pyroxenite above in abrupt, but somewhat irregular at an average of about 5° to core axis.										
		125.09 - 128.02 Run includes low angle contact to 125.20 and light grey zone to 126.30, light limonitic tone to 126.50. The pyroxenite is mineralized with chalcopyrite and bornite blebs as noted above. The contact zone or grey syenite is weakly mineralized with disseminated chalcopyrite and the leucocratic syenite is not mineralized.	C 117597	125.09	128.02	2.93	100	928	56	0.3	< 2	5
		128.02 - 131.06 Leucocratic syenite as described above. Non-magnetic. Some degraded mafic centres (5%) of chlorite ± pyroxene ± biotite have hematite oxidation rims. Run includes a 4 cm piece of biotite-pyroxenite.	C 117598	128.02	131.06	3.04	100	54	5	< .3	< 2	2
131.06	141.28	BIOTITE PYROXENITE - includes several intervals of leucocratic syenite. Contact with leucocratic syenite above is sharp but low angle, about 5° to core axis. Pyroxenite shows little alteration, only weak and discontinuous chlorite alteration of pyroxene.										
		131.06 - 134.12 Biotite pyroxenite with low angle contact extending to 131.50 and with additional leucocratic syenite at 133.28 to 133.28 which is a narrow, low angle interval. Pyroxenite is well mineralized for first metre and decreasing to about 132.50. Mineralization consists of blebs of chalcopyrite and bornite as above, some of which displays net textures, decreases to minor disseminated chalcopyrite specks. Magnetic, especially magnetite rich at beginning of run. A few low angle (0-5° to core axis) fractures carry chalcopyrite.	C 117599	131.06	134.12	3.06	100	3130	225	1.5	18	43
		134.12 - 135.90 Biotite pyroxenite as described above, patchy small blebs of chalcopyrite and bornite mineralization overall yields a low average mineralization.	C 117600	134.12	137.16	3.04	100	1925	122	1.0	11	39
		135.90 - 136.75 Leucocratic syenite as described above. Contains a few blebs of interstitial chalcopyrite.										
		136.75 - 137.16 Biotite pyroxenite. Well mineralized with 2-3% combined bornite and chalcopyrite as disseminated blebs.										
		137.16 - 138.00 Biotite pyroxenite. Well mineralized with 4-6% chalcopyrite, bornite and covellite for first approximately 10 cm then drops off to just a trace where the pyroxenite becomes biotite rich. A low angle (0-5° to core axis) k-feldspar vein 3-8 mm wide carries chalcopyrite and minor blebs of chalcopyrite in a weakly developed envelope.	C 117601	137.16	139.97	2.81	100	3668	179	2.1	10	32

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		138.00 - 139.19 Leucocratic syenite as described above, both top and bottom contacts are at low angles (about 5° to core axis). Quartz content (often as sub-euhedral eyes) has increased to about 20% = quartz syenite. Lower contact is quite chloritic. Traces of chalcopyrite as tiny specks, in *what may actually be weak sulphide envelopes along a 30° to core axis* fracture.										
		139.19 - 139.97 Biotite pyroxenite mineralized with large blebs of net-textures sulphide-mixture of chalcopyrite and bornite. Run terminates with 6 cm of leucocratic syenite. Well mineralized parts of the biotite-pyroxenite are magnetite rich (fine-grained about 5%?).	C 117602	139.97	141.28	1.31	100	5604	303	4.1	17	58
		139.97 - 141.28 Biotite pyroxenite which is well mineralized with chalcopyrite and bornite blebs, often showing net-textures. Bornite is often associated with chalcopyrite but not always. Patchy weak chlorite alteration of pyroxene.										
141.28	155.63	MESOCRATIC SYENITE - pink and grey medium-grained syenite with several short intervals and patches of biotite-pyroxenite.										
		141.28 - 143.26 Greyish-pink syenite showing variable epidote and chlorite alteration. Disseminated chalcopyrite specks, especially in grey areas, average about 0.5%. Low angle (about 10° to core axis) fracture surfaces are coated with limonite. Pyrite associated with some 45° to core axis fractures. Minor sericite with epidote alteration.	C 117603	141.28	143.26	1.98	100	2620	265	1.6	2	7
		143.26 - 146.30 Greyish pink syenite as described above. Weakly mineralized with chalcopyrite, especially in grey coloured, more mafic-rich and magnetite-rich sections. Orangish-pink patches, weakly defined alteration envelopes at 45° to core axis (?) are not mineralized. Lower part of run has chalky-white feldspars, possibly some clay alteration. Weak gneissic texture at 45° to core axis.	C 117604	143.26	146.30	3.04	100	2076	119	1.3	3	8
		146.30 - 147.56 Variable grey and pink syenite as described above. Weakly mineralized with disseminated chalcopyrite and bornite. Both in minor amounts.	C 117605	146.30	149.77	3.47	100	3863	262	2.5	7	18
		147.56 - 148.04 Biotite pyroxenite. Well mineralized with 2-3% blebs of chalcopyrite, 1-2% bornite, traces of covellite. Although blebs are disseminated, some are large enough to coalesce into patches. Magnetite rich.										
		148.04 - 149.26 Grey and pink syenite as described above, weakly mineralized with disseminated specks of chalcopyrite.										
		149.26 - 149.55 Biotite pyroxenite with disseminated 1-2% chalcopyrite and 1% bornite. Fine-grained magnetite rich.										
		149.55 - 149.77 Grey syenite massive epidote and biotite pyroxenite as described above.										
		149.77 - 152.40 Pinkish grey syenite. As described above. Initial metre of run is broken, limonitic and includes fragments of completely chloritized	C 117606	149.77	152.40	2.63	100	3494	331	2.9	4	9

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		pyroxenite (with chalcopyrite-bornite mineralization). Syenite is mineralized with patchy but moderate to strongly chalcopyrite-bornite mineralization. Locally reaches 3-4% but overall probably closer to 0.5%. Bornite associated with magnetite.										
		152.40 - 155.63 Pinkish-grey syenite with small patches of mafic-rich syenite / pyroxenite that are altered to chlorite-epidote and partly assimilated. No sulphides noted here. In the syenite sulphide mineralization is patchy and overall weak, especially in epidote altered areas. Pyrite is associated with some vague fractures or weak alteration cutting core at 80-90° to core axis. Some clay (pervasive, weak over short interval) alteration noted in feldspars.	C 117607	152.40	155.63	3.23	100	918	62	0.9	< 2	7
155.63	158.68	BIOTITE PYROXENITE - with some mesocratic grey syenite and mafic-rich syenite intervals.										
		155.63 - 156.15 Biotite pyroxenite patches begin this interval of variable syenite to mafic syenite. Pervasive chlorite alteration of pyroxene. No sulphides seen.	C 117608	155.63	158.68	3.05	100	154	< 2	< .3	7	3
		156.15 - 158.68 Biotite pyroxenite showing pervasive chlorite alteration of pyroxene. Biotite varies in grain size 1-6 mm. Initial contact zone is intensely chlorite altered and includes irregular patches of pink k-feldspar. Core is broken / ground to gravel in centre with hematite on fracture surfaces. Brecciated over a few cm with coarse pink k-feldspar as matrix (showing epidote alteration).										
158.68	167.07	MESOCRATIC SYENITE - with sections of mafic-rich syenite and patches of chlorite-altered pyroxenite.										
		158.68 - 161.54 A highly variable run which includes 70 cm of chlorite altered pyroxenite with k-feldspar patches (mafic-rich syenite), a 60 cm section of orangish-pink k-feldspar, chlorite and epidote altered syenite. These essentially form a contact zone, which is followed by grey syenite. Patchy disseminated chalcopyrite is locally intense in the syenite but is overall weak. Pyrite is associated with cross-cutting fractures and weak alteration zones at 90° to core axis.	C 117609	158.68	161.54	2.86	100	1924	73	1.1	2	10
		161.54 - 164.59 Grey syenite with some mafic-rich patches. Mafics are pervasively chlorite altered and patches are magnetite and chalcopyrite rich; magnetite to about 5% and chalcopyrite to about 3% in these patches of mafic rich syenite. Balance of syenite is weakly to moderately mineralized with about 0.5 to 1.0% chalcopyrite.	C 117610	161.54	164.59	3.05	100	3987	148	2.3	2	7
		164.59 - 167.07 Grey syenite as described above, includes patches of pyroxenite in last 50 cm. Mineralized with disseminated tiny blebs of chalcopyrite to about 1%.	C 117611	164.59	167.07	2.48	100	4131	185	2.9	2	12

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
167.07	169.59	BIOTITE PYROXENITE - with local variations to mafic-rich syenite. **167.07 - 169.59** Biotite-pyroxenite showing pervasive chlorite alteration of pyroxene. Magnetic, pyrite associated with 90° fractures to core axis.	C 117612	167.07	169.59	2.52	100	160	7	< .3	3	3
169.59	170.73	LEUCOCRATIC QUARTZ SYENITE (**169.59 - 170.73**) - mafics vary 10-20% and are pervasively chlorite altered. K-feldspars are bleached white coloured and weakly clay altered. 15-25% quartz as sub-euhedral to anhedral "eyes".	C 117613	169.59	170.73	1.14	100	619	45	< .3	2	6
170.73	182.94	BIOTITE PYROXENITE - includes several short sections of leucocratic syenite. Pyroxenes show pervasive but weak chlorite alteration. **170.73 - 173.74** Biotite pyroxenite as above, no sulphides seen.	C 117614	170.73	173.74	3.01	100	11	7	< .3	4	< 2
		173.74 - 176.78 Biotite pyroxenite as above. No sulphides seen. Run includes two 15-20 cm sections of unmineralized pink-k-feldspar rich syenite.	C 117615	173.74	176.78	3.04	100	10	< 2	< .3	7	2
		176.78 - 179.83 Bi-pyroxenite as described above. A 2-4 cm thick pink k-feldspar rich syenite (epidote altered) cuts core at 10-15° to core axis.	C 117616	176.78	179.83	3.05	100	47	3	< .3	7	2
		179.83 - 182.94 Biotite pyroxenite with coarse biotite as described above. Broken and ground core at 182.80 along with a "weathered-looking" surface suggest a fault. Biotite pyroxenite below "fault" is finer grained, contains about 1% disseminated chalcopyrite.	C 117617	179.83	182.94	3.11	98	113	2	< .3	6	< 2
182.94	199.86	MESOCRATIC SYENITE - with some short sections of biotite pyroxenite and mafic rich syenite. Pink and grey medium grained syenite showing variable, patchy epidote and chlorite alteration and variable magnetite content. **182.94 - 185.93** Grey syenite with mafic rich and pyroxenite sections along with orange k-feldspar alteration cross cutting at 60° to core axis. Patchy disseminated chalcopyrite locally reaches 1-2% but average is much less.	C 117618	182.94	185.93	2.99	100	1205	44	0.8	< 2	4
		185.93 - 188.98 Grey syenite with pink patches and cross cutting bands (alteration envelopes around annealed fractures?). At 40-70° to core axis sub-parallel alignment of mafics streaks (chlorite altered pyroxene, biotite and magnetite) gives a gneissic or migmatitic appearance, although this is not continuous or consistent over more than a metre. Disseminated small blebs of chalcopyrite are common throughout run but rarely exceed 1% and overall averages less than 0.5%.	C 117619	185.93	188.98	3.05	100	1093	52	< .3	2	5
		188.98 - 192.02 Greyish pink to pink syenite with a weakly developed gneissic texture in a few spots. Weakly mineralized with some small specks of chalcopyrite. Moderately magnetic. Minor patches of epidote and chlorite also clay alteration along some 30° to core axis fractures and minor carbonate.	C 117620	188.98	192.02	3.04	100	278	13	< .3	2	3

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION
		192.02 - 192.87 Greyish pink syenite cross-cutting pinkish-orange k-feldspar, and epidote-chlorite bands are oriented at 65° to core axis. Disseminated specks of chalcopyrite locally reach 1-2% but are only of minor importance overall. **192.87 - 193.03** Biotite-k-feldspar pyroxenite (mafic rich syenite?) a short interval showing pervasive chlorite alteration. No sulphides. **193.03 - 195.07** Pink syenite with grey gneissic streaks at 30-45° to core axis small blebs of chalcopyrite associated with grey patches and mafic centres. Patchy epidote alteration becoming more common toward bottom of run. **195.07 - 195.89** Pink syenite with several mafic-rich patches (pyroxenite). Patchy epidote alteration even through mafic rich sections. Pyroxene is pervasively chlorite altered. **195.89 - 196.38** Biotite pyroxenite showing pervasive but non-texture destructive chlorite alteration of pyroxenes. Very biotite-rich. Epidote alteration of k-feldspar. No sulphides. **196.38 - 198.12** Pinkish grey syenite with patchy epidote alteration. Mineralized with patches of disseminated chalcopyrite, most commonly associated with grey magnetite rich spots and not associated with epidote altered spots. **198.12 - 199.86** Grey syenite with pink patches, weak disseminated specks of chalcopyrite in a few spots. Cubic pyrite associated with pink k-feldspar zones that cut core at 45-60° to core axis. Also with an irregular white quartz-feldspar veinlet that averages about 10° to core axis. Pyrite in this veinlet averages about 5%.
199.86	201.56	BIOTITE PYROXENITE - similar to that described above. **199.86 - 201.56** Biotite pyroxenite showing pervasive chlorite alteration of pyroxene. Some k-feldspar-rich zones cross-cut core at high angles (70-90° to core axis). No sulphides seen.
201.56	207.56	MAFIC RICH SYENITE - mafic-rich (pyroxenite) syenite with variations to pink mesocratic syenite over short intervals. **201.56 - 202.77** Pink mesocratic syenite which includes several mafic-rich patches and pieces of pyroxenite. This section is idiomorphic, but some of the k-feldspars are up to 2 cm long. Near the bottom of this interval are blebs of chalcopyrite near the contact between the pink syenite and a potassic-feldspar biotite rich pyroxene. **202.77 - 204.22** Mafic-rich, coarse-grained syenite which has been subjected to pervasive and intense chlorite alteration of pyroxene. Composed of 30-50% k-feldspar, 15-20% biotite, and 30-50% chlorite after

SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
C 117621	192.02	195.07	3.05	100	624	42	0.3	6	7
C 117622	195.07	198.12	3.05	100	348	21	0.4	< 2	3
C 117623	198.12	199.86	1.74	100	388	107	1.0	3	9
C 117624	199.86	201.56	1.70	100	30	< 2	< .3	8	2
C 117625	201.56	204.22	2.66	100	386	20	< .3	2	3

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		pyroxene. K-feldspars are generally pink, and some show moderate clay alteration. No sulphides seen. Biotite is unaltered, found as randomly oriented flakes 2-6 mm wide.										
		204.22 - 207.26 Mafic rich syenite as described above. Mafic content decreasing toward bottom of run (chlorite). Biotite content remains about the same.	C 117626	204.22	207.26	3.04	100	6	11	< .3	3	< 2
207.56		END OF HOLE.										

Property: Lorraine	**Total Length:** 298.70 m	DIP TESTS			**Start Date:** August 25, 2001		
Grid Cord:	**Core Size:** BQTW	Footage (m)	Dip Measured	Dip Corrected	**Completion:** August 28, 2001		
Elevation: 1648 m	**Azimuth:** 45° (GPS Corrected)	192	-57°	-49°	**Logged By:** Jay W. Page		
Section:	**Inclination:** -51°	298.00	-53°	-45°	**Date logged:** September 14-19, 2001		

NOTES: Step-out from 2001-48. Lower Main Area. GPS Location (corrected): UTM 347334.7 E 6200653.4 N (NAD 83) PAD: LM-3. Note re acid test at 298 m depth, etching of tube suggests several degrees deflection to right.

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
0	3.05	CASING (10 feet)										
3.05	12.19	MESOCRATIC SYENITE - pink syenite showing extensive weathering, oxidation, and leaching. Limonite coats all pieces of core and all fractures. *The initial "fresh" section is probably a boulder.*										
		3.05 - 6.10 An altered mafic-rich grey syenite showing pervasive and intense, texture destructive chlorite-epidote alteration. Biotite unaffected. Rusty contacts / rind. Probably a boulder. O/C is very limonitic, broken and limonite stained. Some surfaces appear bleached suggesting minor clay weathering.	C 117651	3.05	6.10	3.05	65	726	15	0.3	2	< 2
		6.10 - 9.14 As above, very limonitic with minor malachite and chalcocite on some surfaces. Parts of interval are reduced to soil and gravel. Competent pieces of pink syenite show limonite alteration envelopes 2 mm wide along fractures at 30° to core axis. Occasional spot of malachite. No sulphides seen.	C 117652	6.10	9.14	3.04	90	1926	31	0.9	2	2
		9.14 - 12.19 Limonite stained and in spots bleached pink syenite. Parts of run are just soil and gravel. No sulphides seen. Minor malachite staining on fracture surfaces, generally all broken surfaces are covered with limonite.	C 117653	9.14	12.19	3.05	90	1187	8	0.5	2	3
12.19	21.34	MELANOCRATIC SYENITE - varying to mesocratic grey syenite. Upper part of interval is very limonitic.										
		12.19 - 15.24 Much of run, especially first 1.5 metres is very limonitic, both as fracture fillings and as a stain on broken surfaces. Relatively unaltered rock where seen on broken surfaces is a dark grey syenite, becoming lighter grey with depth. Limonite fracture fillings 1-2 mm thick are common on low angle fractures, 0-15° to core axis. Minor malachite on some fracture faces. Patchy disseminated sulphide through parts of the core, some of which is chalcopyrite. Most of core has a crumbly appearance on broken surfaces. 1% chalcopyrite toward bottom of run.	C 117654	12.19	15.24	3.05	96	1767	28	0.5	< 2	2
		15.24 - 18.29 Grey melanocratic syenite with an intergrown idiomorphic texture mineralized with 1-2% disseminated tiny blebs of chalcopyrite. *Apparent concentration near fractures marked with thin lines of biotite and / or chlorite suggest some of the chalcopyrite occurs in weakly developed sulphide alteration envelopes.* Lower part of run is quite broken, sulphide decreases toward bottom of run.	C 117655	15.24	18.29	3.05	100	2421	45	0.8	3	< 2

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		18.29 - 21.34 Grey syenite with irregular pink patches / k-feldspar alteration. Grey syenite contains 25-40% fine-grained biotite. Minor disseminated chalcopyrite, preferentially in the grey parts in the top of the run. Lower part of run is very broken and limonitic.	C 117656	18.29	21.34	3.05	100	2243	28	1.2	< 2	2
21.34	63.18	MESOCRATIC SYENITE **21.34 - 24.38** Pink syenite with mesocratic syenite. Numerous grey patches and a few short sections of mafic rich syenite. These mafic patches appear to be pieces of pyroxenite that have been completely overwhelmed by chlorite alteration of pyroxenes. Biotite is unaffected. There is little if any sulphide in mafic spots that have been subject to massive alteration but there is some disseminated chalcopyrite in the syenite. Where the mafic patches are only weakly altered they are well mineralized with disseminated chalcopyrite. Mafic rich patches comprise about 50% of the core for about 60 cm. Most of balance of core is very broken and limonite stained. Disseminated chalcopyrite in the pink syenite is most commonly associated with mafic centres and mafic wisps.	C 117657	21.34	24.38	3.04	100	1961	21	0.6	2	2
		24.38 - 27.43 Pink syenite with indistinct greyish areas. Much of run is broken and very limonitic. Low angle fractures, especially have 1-2 mm thick deposits of limonite (± jarosite?), on fractures at 0-10° to core axis. Pink / greyish syenite is mineralized with disseminated chalcopyrite, locally to 1-2% over few cm, average less than 0.5%.	C 117658	24.38	27.43	3.05	98	2419	32	0.9	< 2	< 2
		27.43 - 30.48 Mesocratic pink syenite as above, but developing a darker grey tone with depth. Bright pink patches may be an alteration feature, area fairly irregular in shape but seems to trend / cut core at a lower angle about 10-20° to core axis. Patchy disseminated sulphide to about 1%, roughly 60% chalcopyrite 40% pyrite.	C 117659	27.43	30.48	3.05	100	2045	19	0.6	4	2
		30.48 - 33.53 Grey syenite, with a very intergrown, idiomorphic texture. Medium grained, looks slightly hornfelsed. Mineralized with disseminated minor amounts of pyrite and chalcopyrite. Strongly magnetic. Mafics are biotite and chlorite blebs.	C 117660	30.48	33.53	3.05	100	430	5	< .3	< 2	< 2
		33.53 - 36.58 Greyish pink syenite as described above. Magnetic, mineralized with minor (about 0.25%) cubic pyrite and small amounts of chalcopyrite, one patch 2-3 cm long runs 2% chalcopyrite.	C 117661	33.53	36.58	3.05	100	372	9	< .3	4	< 2
		36.58 - 39.62 As described above, with a gradual increase in disseminated chalcopyrite to 0.5-1.0%. Minor amounts of pyrite still present. Continuing magnetic.	C 117662	36.58	39.62	3.04	100	898	32	0.5	< 2	< 2
		39.62 - 42.67 Greyish pink syenite with grey patches, which are usually finer-grained, and contain a higher percentage of fine-grained biotite and magnetite. The fine grained magnetite adds to the slightly re-crystallized lustre of the core. Grey areas are better mineralized than pinkish areas. Disseminated chalcopyrite reaches about 1%. Minor continuing pyrite. Cross-cutting pink zones appear to be alteration envelopes and although boundaries are vague, they seem to trend at about 20-30° to core axis.	C 117663	39.62	42.67	3.05	100	1476	28	0.6	< 2	2

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		42.67 - 45.13 Run begins as above but after 50 cm becomes pink coloured for most of balance of run. Mineralization is sporadic and varies from 2% chalcopyrite over short intervals to nil in others. The chalcopyrite is disseminated and tends to favor areas with a grey tone. There does not appear to be any fracture control on the mineralization. Pink areas are very pale coloured.	C 117664	42.67	45.13	2.46	100	1067	20	< .3	< 2	< 2
		45.13 - 46.87 Grey syenite with many mafic rich spots, some of which appear to be altered / assimilated fragments of biotite pyroxenite. Greyish areas have a higher percentage of grey k-feldspar, fine-grained biotite and magnetite. Also are often mineralized with 2-3% fine disseminated chalcopyrite and pyrite. Groups of biotite form "lamellae" which help define a gneissic texture, although there is no consistent direction. Part of the interval is not mineralized so average is about 0.5 to 1% chalcopyrite. Much of the core through here has a purplish tinge on split surfaces in bright sunlight. Highly magnetic.	C 117665	45.13	46.87	1.74	100	812	12	0.3	3	3
		46.87 - 50.91 Pink syenite. Mesocratic but verging on leucocratic syenite. Very pale pink with few (about 5%) small mafics, mainly biotite. Patchy but overall weak chalcopyrite mineralization tends to be found as disseminated blebs associated with mafic-rich spots, but locally reaches 2%. Non to weakly magnetic. Lower part of run is broken up, sheared with carbonate coatings on low angle fractures (<20° to core axis) and showing some clay alteration.	C 117666	46.87	50.91	4.04	100	2387	31	1.6	< 2	< 2
		50.91 - 54.56 A highly altered interval with a variety of rock types. From 50.91 to 52.33 the core is extensively sheared and broken. Low angle (0-10° to core axis) fractures have thick coatings of carbonate and chlorite. The core through to 54.56 including more competent core often 52.33 has been subjected to pervasive and moderately strong chlorite-sericite-carbonate and pyrite alteration. Disseminated chalcopyrite is present in amounts to 1% but is much less than pyrite which is present in amounts up to 3-4%. Rock type appears to vary from pink syenite to mafic syenite to minor pyroxenite (now altered largely to chlorite). Mafic rich parts are sulphide rich: 1-2% chalcopyrite, and 2-4% pyrite. Amount of chalcopyrite appears to increase toward the bottom of interval. Also a gneissic texture is weakly evident toward the bottom. Biotite is altered to phlogopite mica in spots. Non-magnetic.	C 117667	50.91	55.81	4.90	100	5461	39	1.6	< 2	< 2
		54.56 - 55.81 Syenite migmatite - which actually begins at 54.30 but first 15-20 cm are sericite carbonate altered. Fabric defined by grey wisps and streaks is only moderately well developed over a short interval. This effect is enhanced by lamellae of biotite. Grey wisps are made of grey k-feldspar and biotite, non to very weak magnetism. Heavily mineralized with 2-5% disseminated blebs of chalcopyrite, minor pyrite. Migmatite oriented at 45-60° to core axis. NOTE: Long sample due to missing sample break ribbon.										
		55.81 - 57.91 Pink and grey syenite with minor amounts of migmatite and mafic rich syenite. Much of run is heavily mineralized with 2-4% disseminated blebs of chalcopyrite but several areas of coarse pink	C 117668	55.81	57.91	2.10	100	6768	207	3.6	< 2	< 2

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		k-feldspar with chlorite patches have little or no chalcopyrite. A several cm wide [zone] of chlorite-altered biotite pyroxenite contain net textured chalcopyrite and bornite migmatite where oriented has a 45° to core axis direction but often it is as non-directional patches of swirls. Bornite is also found in grey syenite adjacent to mafic patches and is in contact with chalcopyrite blebs. In places where mineralization is only moderate, the chalcopyrite is concentrated in the grey streaks.										
		57.91 - 60.96 As described above, pinkish grey syenite, with a weakly developed migmatite in a few spots. Mineralization runs at about 0.5 to 1.0% chalcopyrite but is less in coarse grained sections.	C 117669	57.91	60.96	3.05	100	1930	56	1.0	3	2
		60.96 - 63.18 Pink syenite as described above, but with more pinkish-orange and coarser-grained k-feldspar through lower metre or so, somewhat less chalcopyrite through this area also. Most of run is mineralized with up to 2-3% chalcopyrite and 1% bornite as disseminated blebs. Average is probably closer to 0.5 to 1.0% combined. Well mineralized sections are magnetic.	C 117670	60.96	63.18	2.22	100	2523	96	1.3	2	< 2
63.18	76.20	MELANOCRATIC SYENITE - migmatitic syenite with local gradations to / from pink and grey syenite, often mafic rich.										
		63.18 - 63.61 A very dark, fine-grained section made up of 25-35% grey k-feldspar and 65-75% fine biotite. Weakly magnetic. Very well mineralized with very fine grained disseminated 1-3% chalcopyrite and about 1% bornite. A few pink k-feldspar bands cut through at 80-90° to core axis.	C 117671	63.18	67.06	3.88	100	7627	177	3.3	3	6
		63.61 - 63.80 Pink k-feldspar band cuts through at 35-40°, somewhat irregular, only migmatite on edges is mineralized as above.										
		63.80 - 64.27 Dark, biotite rich migmatite as described above. Continuing mineralized with fine-grained disseminated chalcopyrite and bornite.										
		64.27 - 67.06 Well developed migmatite which varies from about 65% pink syenite / 35% dark biotite-rich migmatite streaks to 35% pink syenite and 65% dark migmatite with occasional short intervals of 80-90% dark migmatite. Amount of mineralization is related to amount of dark migmatite, occurs as very fine disseminated blebs of chalcopyrite and bornite, usually with the biotite rich parts. Although larger blebs often appear to occur in the felsic fraction. Run averages about 1-2% chalcopyrite, 1% bornite, minor covellite. Migmatite orientation is quite variable, often as swirls or arcs but on average cuts core at about 45° to core axis. Weakly magnetic										
		67.06 - 70.10 A darker run than above, dark migmatite comprises about 80-85% of rock. Mineralization is less consistent overall and a bit weaker to begin with. Run averages about 1% chalcopyrite, 0.5% bornite. Beginning of disseminated pyrite near bottom of run. Patchy epidote alteration throughout run.	C 117672	67.06	70.10	3.04	100	5079	72	1.7	2	6
		70.10 - 70.52 Dark, 90% migmatite as described above.										

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		70.52 - 70.86 Pink syenite with 10-15% migmatite oriented at about 35° to core axis. Weakly mineralized with a few medium sized blebs of chalcopyrite.	C 117673	70.10	73.15	3.05	100	6013	126	2.6	< 2	7
		70.86 - 73.15 Dark migmatite as described above, migmatite content ranges from 65 to 100%, continuing well mineralized with 1-2% disseminated blebs of chalcopyrite and 0.5% bornite. Bornite is patchy and there is less of it than in runs above. This run is perhaps slightly more magnetic. Traces of covellite associated with bornite.										
		73.15 - 75.76 Dark migmatite as described above, approximately 90% migmatite, the few pink patches are irregular in shape and orientation and often carry coarse biotite. Continuing well mineralized with fine disseminated chalcopyrite. Bornite more common (or more visible) when part of larger blebs of sulphide. Pink bands of syenite often oriented at 70 to 90° to core axis or large and meandering. Weak to moderate magnetism. Estimate 2-3% chalcopyrite, 0.5% bornite.	C 117674	73.15	76.20	3.05	100	3258	42	0.9	4	2
		75.76 - 76.03 Pink syenite, 5-10% biotite. Not mineralized.										
		76.03 - 76.20 Dark, 100% migmatite as described above, but more weakly mineralized. About 1% chalcopyrite blebs. Trace bornite.										
76.20	88.13	MESOCRATIC SYENITE - pink and grey syenite with mixtures of the two giving weakly developed migmatite over short intervals.										
		76.20 - 79.25 Pink and grey syenite - Initial part of run changes from dark migmatite to pink syenite and back again then a sheared section with slickensides raking at 60° on a 10-20° fracture face. All in approximately 40 cm then a change to pink syenite with a 30° foliation defined by biotite lamellae (migmatite?). Moderately magnetic run grades several times between pink and grey syenite. Minor epidote alteration as small patches. Weakly mineralized - minor amount of disseminated chalcopyrite.	C 117675	76.20	79.25	3.05	100	430	12	< .3	< 2	< 2
		79.25 - 82.30 Mesocratic syenite - pink and grey syenite as described above. Minor amounts of disseminated specks of pyrite and chalcopyrite.	C 117676	79.25	82.30	3.05	100	469	12	< .3	< 2	< 2
		82.30 - 85.34 Pink and grey syenite as described above. Slight increase in magnetite to around 0.5-1.0%, traces of sulphide. Last 40 cm of run is pink syenite with only 5-10% biotite.	C 117677	82.30	85.34	3.04	100	297	3	< .3	< 2	< 2
		85.34 - 88.13 Pink syenite with a weakly developed biotite foliation in a few sections, usually at low angles to core axis. Sulphide mineralization has increased but is patchy. Toward bottom of interval most of sulphide is chalcopyrite (0.5%) followed by minor amounts of pyrite. Last 4 cm of interval is mineralized dark migmatite.	C 117678	85.34	88.13	2.79	100	498	21	< .3	2	< 2
88.13	111.75	MELANOCRATIC SYENITE - dark grey. Biotite-rich, mostly 100% migmatite with small amounts of pink k-feldspar.										
		88.13 - 91.44 Melanocratic syenite as described above. Several small	C 117679	88.13	91.44	3.31	100	5990	192	2.5	< 2	3

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		pink k-feldspar zones cut core at 45° and 60° but are also quite irregular. Interval is mineralized with 1-2% chalcopyrite and locally up to 3-4% pyrite as tiny disseminated specks. Overall run shows quite a bit of variation in sulphide content. Some of the chalcopyrite has been introduced / remobilized along this fracture at 65 - 80° to core axis. They are marked by thin lines of grey k-feldspar. The pink k-feldspar rich spots are only weakly mineralized, and mostly with pyrite.										
		91.44 - 94.49 Melanocratic syenite (solid 100% migmatite?) as described above but with more pink cross-cutting zones including one orange k-feldspar rich zone. Contacts with zones are irregular. More fine-grained pyrite (often as very small <0.2 mm cubes). Disseminated and as blebs along fractures, chalcopyrite locally reaches 2% average closer to 0.5 to 1.0%. Pyrite also partly controlled by fractures (70-80° to core axis). Lower part of run (last metre) has several low angle fractures at 0-10° to core axis which are coated with chlorite and carbonate. Run ends with 18 cm of orange k-feldspar rich core with many small patches of mafic-rich (biotite) syenite (migmatite). Possibly partly assimilated breccia fragments.	C 117680	91.44	94.49	3.05	100	2305	36	1.0	4	4
		94.49 - 97.54 Run begins with about 30 cm of orange k-feldspar and grey syenite breccia which is broken up by a quartz-k-feldspar vein and fracture marked by biotite and magnetite. Fragments are mineralized with fine chalcopyrite, vein contains large blebs of chalcopyrite. Carbonate rich. Purple mineral may be fluorite. Breccia degrades into broken chips of core and then into 30 cm of chlorite-rich clay / paste. Solid core regained at 95.50 in pink syenite fragments in a chlorite cement matrix, several low angle fractures separate it from solid grey k-feldspar biotite migmatite. This continues to 97.20 and is sulphide rich (4-6%) with about 75% of the sulphide being pyrite. The lower part is cut by a number of sub-parallel 20-40° to core axis, 1 mm thick carbonate veins carrying blebs of chalcopyrite. The last 37 cm of run is orange k-feldspar rich core cut by several 1 cm thick quartz-carbonate-fluorite veinlets at 45° to core axis. They carry large blebs of chalcopyrite. K-feldspar rich rock is very pyrite-rich up to 10% as fine cubes. Chlorite alteration common on fractures.	C 117681	94.49	97.54	3.05	100	4532	124	3.6	4	6
		97.54 - 100.58 Melanocratic Syenite - Mafic (biotite) rich syenite as described above. Initial 20 cm of run has several pink-orange coloured k-feldspar rich zones with a quartz carbonate-chalcopyrite veinlet cutting core at 10° and 45° to core axis. The 1 cm wide k-feldspar zone appears at this location to be an alteration envelope to vein, k-feldspar is coarse-grained to 1 cm long. At 98.06 a 12 cm wide quartz vein cuts the core at 45° and has a chalcopyrite selvage. This mafic / biotite-rich rock is very pyrite rich through this run, often reaching 6-8%, much of which is as disseminated cubes. About 1% disseminated blebby chalcopyrite is mixed through this pyritic rock. Where thin fracture sets cut the core (at 75 to 80° to core axis), they carry both pyrite and chalcopyrite. Lower / centre part of run is broken with many green chlorite-filled fractures at 0-10° to core axis. Last 30 cm of run is pink syenite carrying large blebs of chalcopyrite.	C 117682	97.54	100.58	3.04	100	6412	603	10.9	3	4

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		100.58 - 103.10 A run of mostly pink syenite but with many patches of mafic-rich rock as described above. This is essentially the same as the migmatitic sections described above except instead of the dark biotite-rich migmatite forming streaks, here it is in patches (fragments?). The dark areas are always heavily mineralized with disseminated fine cubes and blebs of pyrite and fine blebs of chalcopyrite. The pink syenite is coarser grained and carries larger (but fewer) blebs of chalcopyrite. There is only a minor amount of pyrite in the pink syenite. In a couple of spots the chalcopyrite mineralization appears to have a net-texture, suggesting that this biotite-rich "migmatite" is an intensely and completely potassic altered pyroxenite. Some of the k-feldspar rich sections are very coarse, up to 2-3 cm. Some of these sections have large irregular books of black mica to 1 cm. Pink syenite averages about 1-2% chalcopyrite. Minor pyrite, dark migmatite averages 2-3% chalcopyrite, 2-3% pyrite.	C 117683	100.58	103.63	3.05	100	4592	53	3.1	< 2	2
		103.10 - 103.63 Dark migmatite (100%) sliced lengthwise by a 0-5° angle fracture with a thick dark coating of chlorite. Patchy mineralization from 3-4% chalcopyrite to 0%.										
		103.63 - 106.68 A mixture of pale pink syenite, pink syenite with migmatite patches, and intervals of 100% migmatite. Short sections of syenite, e.g. 105.45 to 106.68 are not significant enough to break out as separate lithology, e.g. mesocratic pink syenite, and they still contain some migmatite. Initial section from 103.63 to 105.45 is 60% to 100%, average 85% migmatite. It is well mineralized with sulphides, chalcopyrite 1-2% disseminated blebs and some in steep (80-90° to core axis) fractures. Pyrite is 2-3%, evenly distributed as tiny blebs and cubes, often striated. Weakly magnetic. Minor carbonate, some biotite is bronze coloured, phlogopite(?) cross cutting 1-2 mm k-feldspar veinlets are oriented at 45° to core axis. Where patches of migmatite exist in pink syenite, the syenite is well mineralized with chalcopyrite and the migmatite contains less / little pyrite as compared to the massive migmatite.	C 117684	103.63	106.68	3.05	100	3918	63	2.4	5	5
		106.68 - 109.73 Massive migmatite (100%), pyrite rich 2-4%, including fractures. Chalcopyrite blebs about 1%. In cross-cutting grey k-feldspar veinlets the sulphides form coarse mixtures and are interstitial to the k-feldspar.	C 117685	106.68	109.73	3.05	100	2905	40	1.0	4	5
		109.73 - 111.75 Mafic rich syenite migmatite as described above. Essentially grey k-feldspar and biotite with 2-4% pyrite and 0.5-1.0% chalcopyrite. Sulphides as fine disseminated blebs and cubic pyrite, also some sulphide remobilization along tiny steep fractures.	C 117686	109.73	111.75	2.02	100	2399	35	0.8	7	9
111.75	116.60	MESOCRATIC SYENITE- pink and grey syenite with short intervals of gneissic / migmatitic texture developed at a variety of orientations.										
		111.75 - 114.15 Pink syenite with streaks of biotite ± grey k-feldspar giving a gneissic / migmatitic texture at 45° to core axis. 1-3% disseminated pyrite often as small cubes, minor to 0.5% chalcopyrite.	C 117687	111.75	114.15	2.40	100	667	23	< .3	3	< 2

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		114.15 - 116.60 Pink syenite with thin biotite-rich migmatite streaks at 45° to core axis, becoming more mafic-rich toward bottom of interval, including several chlorite-altered pieces of pyroxenite. 2-4% pyrite in syenite, minor chalcopyrite. Pyroxenite bits carry more chalcopyrite than pyrite	C 117688	114.15	116.60	2.45	100	2877	59	1.0	7	8
116.60	131.43	BIOTITE PYROXENITE and MAFIC-RICH SYENITE - pervasively chlorite altered and biotite rich pyroxenite with patches of k-feldspar and minor epidote plus short intervals of pink syenite displaying weak migmatite streaks. Less chlorite alteration and more magnetite with depth. Chalcopyrite dominates over pyrite, and often has net-textured habit.										
		116.60 - 117.73 Intense and pervasive chlorite altered and biotite-rich pyroxenite and mafic-rich syenite. Weakly magnetic. Mineralized with 1-3% chalcopyrite often showing net-textures and 0.5 to 1.0% pyrite. Pink k-feldspars to 1 cm.	C 117689	116.60	118.87	2.27	100	3120	93	1.6	8	18
		117.73 - 118.35 Pink syenite with migmatite streaks at 20-45° to core axis and composed largely of biotite. 1-2% sulphide in a roughly 50/50 ratio of pyrite to chalcopyrite, all of which is as small, disseminated blebs.										
		118.35 - 118.87 Gradation from syenite to pyroxenite. Initially pyroxenite is intensely chlorite altered but grades to weak-unaltered over 40 cm. K-feldspar spots are epidote rich, minor chalcopyrite and pyrite.										
		118.87 - 121.92 Chlorite altered biotite pyroxenite grading into mafic rich syenite as described above. Interval is more chlorite-rich near the top, more biotite rich toward the bottom. K-feldspar rich section through the centre part (mafic-rich syenite). Mineralization is a bit patchy but runs 2-3% chalcopyrite, locally 3-5%, often as net-textured or as stringers. Pyrite as disseminated cubes or stringers to about 1%.	C 117690	118.87	121.92	3.05	100	3645	48	2.9	5	11
		121.92 - 124.97 Mafic-rich syenite, much of which is in the form of migmatite. Biotite altered pyroxenite (intense potassic alteration) with the parts of the core being almost entirely altered to biotite, grey k-feldspar and pyrite. Chalcopyrite as disseminated and net textured blebs runs about 2-3% blebs larger in migmatite rich section. Pyrite more common in migmatite rich sections running up to 3%. Low angle (15-30° to core axis) fractures carry gypsum migmatite rich sections oriented at 5-35° to core axis and composed about entirely of biotite.	C 117691	121.92	124.97	3.05	100	3837	31	1.7	3	9
		124.97 - 126.42 Mafic-rich (biotite migmatite) syenite with patches of migmatite / biotite altered pyroxenite. Most of the migmatite and biotite altered pyroxenite is heavily mineralized with up to 4-6% chalcopyrite. Large blebs showing good net textures are very common. Pyrite at about 1% is more common in migmatite sections than in altered biotite pyroxenite. In all cases, biotite is very common, often comprising 50% of the rock.	C 117692	124.97	128.02	3.05	100	2722	82	1.3	6	11
		126.42 - 128.02 Biotite pyroxenite with an abrupt contact above with migmatite at 60° to core axis. This interval has been subject to intense										

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		biotite alteration and in places the core is almost a solid mass of felted biotite. Where it includes about 20% k-feldspar ± epidote alteration, the biotite has a wide range of sizes, but mostly 2 populations: big flakes and finer-grained biotite. Very little sulphide seen. Minor amounts of chalcopyrite and pyrite toward the lower part of the run, the pyroxenitic character gives way to pure biotite-rich migmatite, being made up of essentially just biotite and grey k-feldspar. Weak to moderately magnetic.										
		128.02 - 131.43 Mafic-rich (biotite-rich migmatite) syenite and biotite pyroxenite. Run begins with fine-grained biotite migmatite with a 45° to core axis fabric and then is cut by some meandering 1-4 mm wide light grey k-feldspar veinlets. Massive fine-grained biotite migmatite contains up to 4% fine-grained pyrite, often as cubes, with about 1% chalcopyrite. This grades gradually into chlorite altered pyroxenite, with the chlorite alteration decreasing with depth. The amount of chalcopyrite increases to 2-3% in the pyroxenite and pyrite decreases to 0.5 to 1.0%. Locally chalcopyrite reaches 5% with numerous examples of net-textures.	C 117693	128.02	131.43	3.41	100	4042	117	1.9	8	16
131.43	140.52	MESOCRATIC SYENITE - grey syenite with a well defined gneissic fabric that becomes weaker with depth and disappears after 5 metres. Fabric is a foliation created by streaks of parallel biotite flakes (migmatite) at roughly 30° to core axis but becoming irregular with depth.										
		131.43 - 134.11 Grey syenite with a fairly well defined biotite foliation through most of the run. In the centre, from 132.68 to 132.87 is a piece of chlorite altered (intense) biotite pyroxenite. Chalcopyrite is found as blebs, most commonly associated with the biotite lamellae, of the order of about 0.5% for the interval pyrite, often cubic, is found throughout the interval, mostly in the syenitic fraction and in amounts of about 2-3%. By 132.50 the biotite foliation (weak migmatite) has weakened and patches of orange k-feldspar have appeared.	C 117694	131.43	134.11	2.68	100	1563	19	< .3	3	7
		134.11 - 137.16 Grey mesocratic syenite with a weakly developed foliation, core is cut through by low angle (0-10° to core axis) coarse grained sections of the same composition. Core is chalky, carbonate altered, ± clay alteration in a few spots. Lower part of run (last 50 cm) contains about 30% chlorite ± biotite and is mafic rich. Mineralized by 1-2% disseminated pyrite and minor amounts of chalcopyrite.	C 117695	134.11	137.16	3.05	100	650	7	< .3	5	5
		137.16 - 140.52 Grey syenite as described above. Cut by several low angle 5-10° to core axis fractures coated with chlorite and carbonate. These fractures separate grey syenite from above run and after about 85 cm there is another section with the same chlorite ± epidote alteration seen in the above run. At 139.07 a 1 cm wide zone of chlorite-epidote cuts the core at 30° to core axis and separates weakly mineralized core above from more strongly mineralized core (1-2% chalcopyrite) below (grey syenite). This lower section has less alteration and more mineralized grey streaks and patches of biotite pyroxenite. The amount of pyrite has decreased	C 117696	137.16	140.52	3.36	100	1625	62	0.9	6	7

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		significantly to a minor amount. The last 8 cm of run includes a piece of biotite pyroxenite with net-textured chalcopyrite. The lower grey syenite is magnetic, as is the altered rock above.										
140.52	146.02	BIOTITE PYROXENITE - which includes and grades into mafic-rich syenite and migmatite, some of which is massive. This interval is heavily mineralized in places with 4-6% net textured blebs of chalcopyrite.										
		140.52 - 143.26 This interval grades through biotite pyroxenite into chlorite-epidote altered mafic-rich syenite and finally into migmatitic syenite to massive migmatite. All phases are mineralized, with the most mafic parts, e.g. pyroxenite and migmatite carrying up to 6% chalcopyrite as large net textured blebs.	C 117697	140.52	143.26	2.74	100	5364	127	2.9	3	14
		143.26 - 146.02 Biotite pyroxenite as described above. Very biotite rich. The pyroxenite is interrupted from 143.39 to 144.46 by a mafic-rich syenite which shows extensive chlorite-epidote alteration. The run ends in similar mafic-rich syenite. The interval is weakly mineralized except from 145.02 to 145.25 which has 3-4% net textured and disseminated chalcopyrite. At 145.65 there are a few blebs of chalcopyrite and bornite in biotite pyroxenite.	C 117698	143.26	146.02	2.76	100	1666	69	1.2	7	19
146.02	148.04	MESOCRATIC SYENITE - chlorite-epidote altered grey syenite.										
		146.02 - 148.04 Grey mesocratic syenite displaying pervasive chlorite-epidote alteration. No sulphides seen.	C 117699	146.02	148.04	2.02	100	167	9	< .3	2	2
148.04	187.30	BIOTITE PYROXENITE - displaying weak chlorite alteration but becoming very biotite rich.										
		148.04 - 151.63 Biotite pyroxenite displaying weak chlorite alteration and becoming very biotite-rich. Weakly mineralized, only a few blebs of chalcopyrite with bornite. Run includes about a metre of fine-grained biotite-pyroxenite	C 117700	148.04	151.63	3.59	100	457	15	0.4	9	14
		151.63 - 155.45 Biotite-pyroxenite as described above. Very biotite-rich. The biotite forms clumps giving a spotted look from 153.30 to 154.63. A short syenitic section from 154.63 to 154.86 was very coarse-grained k-feldspar and 1-2% blebs of chalcopyrite.	C 117701	151.63	155.45	3.82	100	500	8	< .3	8	9
		155.45 - 158.50 Biotite pyroxenite with numerous small patches of disseminated and net-textured chalcopyrite. Very biotite rich. From 156.43 to 156.71 there are several 30-45° to core axis fractures with chlorite coatings and 45° rake slickensides. A more felsic section from 156.86 to about 157.80 has 10-15% grey k-spar and 3-5% disseminated blebs of chalcopyrite, many of which display net-textures.	C 117702	155.45	158.50	3.05	100	3963	54	2.3	16	35
		158.50 - 161.54 Very biotite rich pyroxenite - includes a shear at 45° to core axis. No sulphides seen.	C 117703	158.50	161.54	3.04	100	164	4	< .3	13	8

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		161.54 - 164.59 Biotite pyroxenite as above, mineralized with 3-5% disseminated blebs of chalcopyrite and bornite between 161.54 and 161.88, then barely a trace. Thick chlorite deposits (1-2 mm) on 20-30° fracture face at 164.45.	C 117704	161.54	164.59	3.05	100	1011	24	0.4	9	19
		164.59 - 167.69 Biotite pyroxenite as above. No sulphides seen. Continuing magnetic.	C 117705	164.59	167.69	3.10	100	743	24	0.3	8	18
		167.69 - 170.69 Biotite pyroxenite. As described above. No sulphides seen.	C 117706	167.69	170.69	3.00	100	321	8	< .3	7	10
		170.69 - 173.74 As described above. No sulphides seen. Weak to moderate chlorite alteration.	C 117707	170.69	173.74	3.05	100	1067	80	0.3	10	23
		173.74 - 176.78 Biotite pyroxenite as described above. From 176.26 to 176.60 there is 1-2% disseminated bornite in a section of very coarse biotite rich pyroxenite. Also a few specks of chalcopyrite.	C 117708	173.74	176.78	3.04	100	935	25	0.4	7	29
		176.78 - 179.83 Biotite pyroxenite as described above. Minor disseminated blebs of chalcopyrite and bornite in a few spots.	C 117709	176.78	179.83	3.05	100	80	< 2	< .3	13	14
		179.83 - 182.88 *Biotite pyroxenite as described above, well mineralized* with chalcopyrite and bornite. Beginning at 180.90, first with 2-3% disseminated blebs of net-textured chalcopyrite, then followed by chalcopyrite and bornite blebs and then mainly with bornite (1-2%) to end of run. The chalcopyrite only section is separated from the bornite section by a short chlorite zone with a 45° to core axis fracture with a 65° rake on slickensides. Bornite is often accompanied by minor covellite. Mineralized zone separated from barren core below by a 1 cm zone of coarse biotite.	C 117710	179.83	182.88	3.05	100	6463	354	5.2	10	31
		182.88 - 185.50 *Biotite pyroxenite as above,* biotite in clumps gives a dalmation effect (black spots). Minor disseminated chalcopyrite.	C 117711	182.88	185.50	2.62	100	61	4	< .3	5	3
		185.50 - 187.30 Biotite pyroxenite as above, with locally intense chlorite alteration and a mineralized section at the end of the run. The upper part of this interval is soft and broken and is intensely chlorite altered. Beginning at 186.38 with disseminated blebs of chalcopyrite and bornite and within 20 cm it has graded into 4-5% chalcopyrite and then into 2-3% combined pyrite and chalcopyrite by the end of the interval.	C 117712	185.50	187.30	1.80	100	4424	140	1.7	10	42
187.30	188.87	MESOCRATIC SYENITE - grey syenite with a weak to moderately developed biotite foliation, and cut by numerous pink alteration zones and patches. **187.30 - 188.87** Grey syenite with cross cutting (70° to 80° to core axis) zones of biotite rich migmatite and small patches of biotite pyroxenite. Mafic parts are often mineralized with several percent of chalcopyrite, but overall, mineralization is weak. Low angle fractures (5-15° to core axis) are coated with carbonate. Grades into massive biotite-rich migmatite at bottom of run.	C 117713	187.30	188.87	1.57	100	614	28	< .3	3	6
188.87	195.14	MELANOCRATIC SYENITE - mafic-rich syenite and massive biotite-rich migmatite. **188.87 - 190.85** Massive biotite-rich migmatite / mafic-rich syenite. Initially chalcopyrite rich (about 2%) with less pyrite. Grading fairly quickly	C 117714	188.87	190.85	1.98	100	2872	71	0.5	3	9

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		into 0.5% chalcopyrite and 3-5% pyrite. All of the sulphide is disseminated, the pyrite is often as tiny cubes. This interval is mostly composed of biotite and grey k-feldspar. Non-magnetic.										
		190.85 - 192.90 Grey and pink syenite migmatite, along with sections of massive migmatite. Felsic component is coarse-grained along with biotite lamellae. Migmatite, especially massive component is very fine grained. Syenite migmatite is mineralized with 2% chalcopyrite in the mafic streaks and patches. The massive biotite-rich migmatite is pyrite rich (4-5%), while only carrying minor chalcopyrite.	C 117715	190.85	192.90	2.05	100	3076	83	1.4	4	9
		192.90 - 193.98 Massive biotite migmatite as described above. Pyrite rich (2-4%) and carrying 1% chalcopyrite. Cut by many irregular white k-feldspar and pink k-feldspar veinlets and alteration envelopes.	C 117716	192.90	195.14	2.24	100	3574	64	1.4	6	11
		193.98 - 195.14 Mafic rich syenite cut by irregular bands of biotite rich migmatite and several patches of massive migmatite and biotite pyroxenite. The migmatite is pyrite rich when massive, chalcopyrite rich when cutting the syenite in streaks and bands. Patches of pyroxenite carry about 2% chalcopyrite. The run averages about 1-2% chalcopyrite.										
195.14	207.30	BIOTITE PYROXENITE - showing variable chlorite alteration and is heavily mineralized in several places with chalcopyrite.										
		195.14 - 198.12 Biotite pyroxenite as described previously, chalcopyrite mineralization from 196.74 to 197.23 as disseminated blebs with net-textures to about 2%.	C 117717	195.14	198.12	2.98	100	920	43	0.5	10	10
		198.12 - 201.17 Biotite pyroxenite as described above. Mineralization is weak to 198.38 then becomes more strongly mineralized once below a 45° to core axis fracture. Bornite and chalcopyrite are found together for the first 20-30 cm until the bornite dies out and the chalcopyrite picks up to about 2-3% for the next metre with two 5-10 cm intervals which carry up to 20% chalcopyrite. Weakly mineralized after 199.72 metres. Magnetic.	C 117718	198.12	201.17	3.05	100	5042	132	3.3	14	18
		201.17 - 204.22 Biotite pyroxenite as described above. Chalcopyrite mineralization from 201.69 to 202.13 as disseminated blebs. One 3 cm wide patch is 30% chalcopyrite.	C 117719	201.17	204.22	3.05	100	519	30	< .3	3	6
		204.22 - 207.30 Biotite pyroxenite as described above. Weakly mineralized, only traces up to 205.94. After which the remainder of the interval (205.94 - 207.30) is very heavily mineralized with chalcopyrite, never less than about 4% and with many patches of 30-40% chalcopyrite, displaying primary net-textures. Minor pyrite as cubes present. The division with unmineralized rock above is marked by a 2 mm grey k-feldspar veinlet. Below is abrupt contact at 45° to core axis with mesocratic syenite. Initial unmineralized section is "spotted" with biotite clusters.	C 117720	204.22	207.30	3.08	100	5950	211	4.1	12	24
207.30	209.30	MESOCRATIC SYENITE - light grey syenite with a weakly developed foliation, generally at steeper than 45° to core axis. Mafics about 20% composed of chlorite-altered, sub-euhedral pyroxene and fine grained										

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		biotite forming small lamellae. **207.30 - 209.30** Light grey syenite as described above. Patchy epidote alteration. About 1% disseminated cubic pyrite, minor chalcopyrite.	C 117721	207.30	209.30	2.00	100	490	21	< .3	6	7
209.30	215.80	BIOTITE PYROXENITE - much of which has a spotted appearance. **209.30 - 213.36** Biotite pyroxenite as described above. Net textured chalcopyrite from 209.30 to 209.60 to 2-3%, chalcopyrite dies out by 209.85, along with a few bornite blebs. Cut at 45° to core axis at 212 by coarse k-feldspar-biotite veinlets, 2 cm wide. Biotite in clumps forming spots.	C 117722	209.30	213.36	4.06	100	858	8	0.4	6	9
		213.36 - 215.80 Biotite pyroxenite with biotite spots as described above. Most of run is barren, occasional specks of chalcopyrite except between 215.40 and 215.80 which is weakly mineralized. At 215.50 there is a 2 cm band of net-textured chalcopyrite at 45° to core axis	C 117723	213.36	215.96	2.60	100	707	24	0.4	4	4
215.80	220.00	MAFIC-RICH SYENITE - with massive biotite rich migmatite and sections of biotite pyroxenite. **215.80 - 216.10** Massive migmatite contact above marked by coarse biotite and fine-grained k-feldspar with 3% cubic pyrite and 1-2% blebs of chalcopyrite over 2 cm. Migmatite is biotite and sulphide rich, 2-3% cubic pyrite, 2-3% chalcopyrite.	C 117724	215.96	218.31	2.35	100	1409	55	0.9	< 2	5
		216.10 - 218.31 Mafic-rich syenite - coarse grained pink and grey syenite with many streaks and patches of biotite rich migmatite and pyroxenite. A few patches of pyroxenite are well mineralized with net-textured chalcopyrite but overall the run is only weakly mineralized.										
		218.31 - 220.00 Mafic-rich syenite migmatite and biotite pyroxenite. Moderately well mineralized with chalcopyrite through most sections. Run begins with massive biotite-rich fine grained migmatite (218.31 to 218.43). 1-2% fine blebs of chalcopyrite, 1-2% pyrite, weak foliations at 60° to core axis. Followed by coarse biotite rich syenite with 2-4% chalcopyrite blebs (218.43 to 218.51). Then biotite pyroxenite with 15-20% grey k-feldspar and patchy 1-2% net-textured chalcopyrite (218.51 to 219.34). Followed by mafic-rich syenite with 50% biotite-rich migmatite at 45 to 90° to core axis and carrying 1-2% chalcopyrite blebs.	C 117725	218.31	220.41	2.10	100	3012	56	1.6	10	22
220.00	233.31	BIOTITE PYROXENITE - biotite-rich and weak to moderate chlorite altered. Heavily mineralized with up to 6-8% net-textured chalcopyrite in several spots. **220.00 - 220.41** Biotite pyroxenite with 2-3% chalcopyrite blebs, some of which display net-textures. Poor sample break results in this section being included with mafic-rich syenite above (sample no. 117725).										

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		220.41 - 222.50 Biotite pyroxenite displaying weak chlorite alteration. Heavily mineralized from 220.41 to 220.74 with 6-8% net-textured chalcopyrite. Weak patchy mineralization below 220.74. Cut by several low angle fractures 10-15° to core axis, also one at 45° to core axis. All have fracture coatings of red hematite.	C 117726	220.41	222.50	2.09	100	2257	48	1.2	13	31
		222.50 - 225.55 Biotite pyroxenite as described above. Patchy net-textured chalcopyrite mineralization exists between 223.46 - 223.61 and 224.62 - 224.84. Each section runs about 4-6% chalcopyrite. Balance of run is weakly mineralized.	C 117727	222.50	225.55	3.05	100	1634	28	0.6	13	26
		225.55 - 228.60 Biotite pyroxenite as described above. Moderately well mineralized by net-textured and disseminated blebs of chalcopyrite and in a few spots by bornite as well. About 60% of the interval is mineralized, approximately 2% for run average. Strongest mineralization is between 225.55 and 226.85.	C 117728	225.55	228.60	3.05	100	2778	156	1.3	10	16
		228.60 - 230.82 Biotite pyroxenite as describe above. Moderately well mineralized over entire length of run, although better mineralization is patchy net-textured chalcopyrite and minor bornite with chalcopyrite disseminated blebs. Much of this run is broken by low angle fractures (0 - 10° to core axis) which are coated by deposits of light green carbonate and chlorite. Average for the run is about 2% chalcopyrite and minor bornite.	C 117729	228.60	230.82	2.22	100	2885	132	1.6	19	36
		230.82 - 233.31 Biotite pyroxenite as described above. Perhaps slightly more chlorite altertaion than above. Weak to moderate patchy chalcopyrite mineralization, both as disseminated specks and as net-textured blebs. The strongest mineralization occurs in the last 50 cm. Highly magnetic to the end.	C 117730	230.82	233.31	2.49	100	2993	93	1.0	11	37
233.31	241.38	MESOCRATIC SYENITE - a light pinkish grey syenite with about 20% mafic centres. Moderately magnetic.										
		233.31 - 237.74 Grey syenite with a medium-grained idiomorphic texture. Contact with pyroxenite above is very low angle, perhaps 5° to core axis, so samples above and below include some of each. This interval is weakly mineralized, but first 50 cm has 0.5-10.0% disseminated blebs of chalcopyrite. Mafics are grey clumps of very fine-grained biotite. Magnetite and perhaps pyroxene.	C 117731	233.31	237.74	4.43	100	428	22	0.3	4	6
		237.74 - 241.38 Grey-pink syenite as described above. Becoming more mafic (± chlorite) with depth. Epidote alteration spots, and k-feldspar (pink, coarse-grained) cut through the core at 45° to core axis. Trace pyrite and chalcopyrite.	C 117732	237.74	241.38	3.64	100	499	18	0.5	2	2
241.38	241.89	BIOTITE PYROXENITE (**241.38 - 241.89**) with a few spots that reach 20% k-feldspar, no sulphides.	C 117733	241.38	241.89	0.51	100	24	< 2	< .3	6	7

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
241.89	254.59	MESOCRATIC SYENITE - grey syenite with a fine-grained, idiomorphic, hornfelsed appearance. Includes a few mafic rich spots. Light green, subtle epidote patches. Splits with an irregular surface. Cross cut by some coarse grained, orange k-feldspar patches at 45-60° to core axis. Cubic pyrite accompanies k-feldspar rich patches.											
		241.89 - 243.84 Grey syenite as described above. Minor pyrite associated with orange k-feldspar patches.	C 117734	241.89	243.84	1.95	100	21	< 2	< .3	2	< 2
		243.84 - 246.89 Grey syenite as described above. Mottled grey, reddish-pink, and greenish colours suggest both potassic and epidote alteration plus a reduction in grain size due to hornfelsing.	C 117735	243.84	246.89	3.05	100	50	27	0.3	< 2	< 2
		246.89 - 249.94 Grey syenite shot through with orangish-pink k-feldspar alteration zones. Trace of chalcopyrite associated with 30° fractures. Pyrite to 0.5% in spots, overall minor and often associated with fractures 30° to 60° to core axis magnetic.	C 117736	246.89	249.94	3.05	100	55	26	0.3	3	2
		249.94 - 252.98 As described above. Patchy grey and orange-pink syenite about 20% grey mafic patches. A 3 cm wide k-feldspar vein (grey) with an orange k-feldspar alteration envelope at 250.10 carried lots of cubic pyrite. Pyrite elsewhere associated with 30-40° fractures.	C 117737	249.94	252.98	3.04	100	133	77	0.5	3	2
		252.98 - 254.59 Grey and pink syenite as described above. More granular and no longer has hornfelsed appearance. This run is more mafic rich and is gradational to next sections. Biotite becoming coarse-grained toward bottom of run.	C 117738	252.98	254.59	1.61	100	183	3	< .3	< 2	6
254.59	263.61	MELANOCRATIC SYENITE - mafic rich syenite with many patches of biotite pyroxenite.										
		254.59 - 257.20 Mafic rich syenite as described above. Cut by a weakly developed carbonate-filled fracture set at 30-45° to core axis. Most prominent mafic is biotite. Grey chlorite-rich patches contain minor chalcopyrite.	C 117739	254.59	257.20	2.61	100	261	12	0.4	4	11
		257.20 - 261.00 As described above. Grey syenite with numerous orange pink k-feldspar patches and containing an increasing amount of biotite pyroxenite (chlorite altered) with depth. Minor disseminated chalcopyrite through the interval.	C 117740	257.20	261.00	3.80	100	373	8	0.3	2	11
		261.00 - 261.26 Biotite pyroxenite showing weak chlorite alteration of pyroxene.	C 117741	261.00	262.13	1.13	100	297	16	0.4	7	17
		261.26 - 262.13 Mafic rich syenite gradational from biotite pyroxenite and includes many patches of pyroxenite. Minor chalcopyrite in more mafic spots.										
		262.13 - 263.61 Mafic rich syenite as described above. Includes sections of pyroxenite up to 15 cm long. Some of the pyroxenite carries patches of net-textured sulphide, most of which is pyrite or pyrrhotite, only 10 to 20% is chalcopyrite.	C 117742	262.13	265.18	3.05	100	199	< 2	< .3	4	7

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
263.61	280.68	MESOCRATIC SYENITE - grey and pink syenite with many patches and short sections of mafic rich syenite. **263.61 - 265.18** Grey syenite as described above. Cut by mafic rich patches / zones. Orange k-feldspar and epidote alteration at 30 to 60° to core axis. Continuing magnetic. Minor blebs of pyrite in some mafic centers. Trace of bornite in one piece of pyroxenite. This is a gradational interval between more mafic above and the syenite below.											
		265.18 - 268.22 Grey syenite cut by k-feldspar (orange) veinlet at 60° to core axis. Has several mafic-rich patches toward bottom of run. Biotite, the primary mafic component, increases to 30% and increases in grain size to 2-3 mm.	C 117743	265.18	266.60	1.42	100	150	5	< .3	2	5
			C 117744	266.60	268.22	1.62	100	159	4	< .3	5	9
		268.22 - 270.44 Grey syenite with a prominent foliation defined by 30% coarse biotite at 45° to core axis. Foliation is indistinct through some parts of the run.	C 117745	268.22	270.44	2.22	100	16	4	< .3	< 2	2
		270.44 - 274.32 Grey syenite with an "on again, off again" foliation defined by 20-25% biotite lamellae. Cross-cutting orange k-feldspar alteration envelopes, 2-3 mm wide, cut core at 45 to 85° to core axis and also often cut foliation. Epidote patches common and when they cut across core they parallel foliation at about 45° to core axis. Minor pyrite and traces of chalcopyrite, especially in mafic centres.	C 117746	270.44	274.32	3.88	100	377	4	< .3	2	6
		274.32 - 277.37 Grey syenite, non foliated. Continuing epidote spots and k-feldspar alteration envelopes.	C 117747	274.32	277.37	3.05	100	154	< 2	< .3	4	4
		277.37 - 280.68 Grey syenite as above but with patches of orange k-feldspar alteration carrying several percent cubic pyrite and blebs of chalcopyrite. Largest patch is 20-30 cm long. Contact irregular but appears steep. Epidote patches also common in this run. Fractures at 70° to core axis. Commonly have k-feldspar (orange coloured) and pyrite alteration envelopes 1-2 mm wide. Some mafic patches are well mineralized with blebs of pyrite ± pyrrhotite (?) and lesser chalcopyrite.	C 117748	277.37	280.68	3.31	100	533	4	< .3	6	11
280.68	281.92	BIOTITE PYROXENITE - very biotite-rich and coarse-grained (biotite). Pervasive chlorite / alteration of pyroxene. **280.68 - 281.92** No sulphides seen.	C 117749	280.68	281.92	1.24	100	10	< 2	< .3	4	< 2
281.92	282.95	MESOCRATIC SYENITE - grey syenite with mafic rich patches of pyroxenite. **281.92 - 282.95** Grey syenite with minor small disseminated blebs of chalcopyrite in both syenite and pyroxenite.	C 117750	281.92	282.95	1.03	100	203	11	< .3	2	8
282.95	283.46	BIOTITE PYROXENITE (**282.95 - 283.46**) - chlorite altered but not as biotite-rich as above. Contains one section of 2-3 cm of net-textured chalcopyrite and bornite.	C 117751	282.95	283.46	0.51	100	105	6	0.3	4	12

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
283.46	298.70	MESOCRATIC SYENITE - grey syenite with a gradational contact with above pyroxenite over 30 cm. No sulphides seen in this section or in balance of the run.	C 117752	283.46	286.51	3.05	100	289	5	< .3	< 2	2
		286.51 - 289.56 Grey syenite as described above, with several 1-10 mm wide magnetite veinlets cutting core at 45 to 90° to core axis. Core developing a pinker colour tone with depth.	C 117753	286.51	289.56	3.05	100	200	15	< .3	< 2	< 2
		289.56 - 292.61 Grey syenite as described above with continuing magnetite veinlets. from 291.26 to 291.66 there is a finer grained brownish pink k-feldspar section in which fractures carry minor pyrite and chalcopyrite at 30° to core axis.	C 117754	289.56	292.61	3.05	100	272	20	0.3	< 2	3
		292.61 - 295.66 Grey syenite with continuing magnetite blebs and veinlets at generally steep angles to core veins.	C 117755	292.61	295.66	3.05	100	289	15	< .3	< 2	3
		295.66 - 298.70 Grey syenite as described above. Traces of disseminated chalcopyrite. Cubic pyrite with mafic spots.	C 117756	295.66	298.70	3.04	100	683	56	0.5	4	5
298.70		END OF HOLE.										

Property: Lorraine	Total Length: 152.40		DIP TESTS			Start Date: August 28, 2001	
Grid Cord:	Core Size: BQTW	Footage (m)	Dip Measured	Dip Corrected		Completion: August 29, 2001	
Elevation: 1971 m	Azimuth: 58°	152	-57°	-59°		Logged By: Jay W. Page	
Section:	Inclination: -60°					Date logged: September 20-22, 2001	

NOTES: PAD "Yank's W..." on ridge near top of Lorraine Mountain. 348077.9 E; 6200493.2 N (NAD 83)

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
0	3.05	CASING (10 Feet).										
3.05	64.45	MESOCRATIC SYENITE - pink medium-grained, idiomorphic syenite with greyish pink patches. Weak epidote patches and bands that cross core at 90° to core axis. Irregular mafic patches of biotite and pyroxene show a 45° to core axis alignment in a few places.										
		3.05 - 6.10 Pink syenite as described above. Some patches of orangish-pink coarse k-feldspar moderately magnetic. No sulphides seen. Minor malachite spots on 30° to core axis fracture faces.	C 117801	3.05	6.10	3.05	100	451	21	< .3	< 2	4
		6.10 - 9.14 Pink syenite as described above, many orangish-pink patches. Carbonate and malachite on many fracture faces.	C 117802	6.10	9.14	3.04	100	2201	97	1.1	5	6
		9.14 - 12.19 Pink syenite as described above, more grey tones and more mafic-rich in a few spots. Dark patches are mineralized with disseminated specks of chalcopyrite and pyrite. Patchy but extensive epidote alteration. Minor pyrite and chalcopyrite associated with steep fractures filled with 1-2 mm biotite and magnetite. Fracture oriented at 70-90° to core axis.	C 117803	9.14	12.19	3.05	100	3335	67	2.0	3	4
		12.19 - 15.24 Orange k-feldspar and epidote altered syenite, by the end of the run with the last 70 cm being unaltered grey syenite with some mafic patches carrying blebs of chalcopyrite.	C 117804	12.19	15.24	3.05	100	746	29	< .3	2	< 2
		15.24 - 17.21 Grey syenite with mafic content increasing to 20-25% mostly biotite with minor magnetite and pyroxene (± chlorite). Weakly mineralized with blebs of chalcopyrite, mainly in mafic centres. Some sections of core show the mafics aligned at 45° to core axis defining a weak foliation.	C 117805	15.24	18.29	3.05	100	293	11	< .3	2	5
		17.21 - 18.29 Pink syenite showing numerous patches and short intervals of orange k-feldspar and epidote. Epidote is especially prominent on low to moderate fracture faces - 20-40° to core axis.										
		18.29 - 21.34 K-feldspar and epidote altered syenite. Alteration is very patchy and irregular, with the epidote often overprinting the k-feldspar alteration, or forms 1 cm wide alteration envelopes around fractures at 45° to core axis. Low angle fractures are very limonitic, oriented at 5-10° to core axis.	C 117806	18.29	21.34	3.05	100	975	28	0.4	3	3
		21.34 - 24.38 Grey syenite with many patches of pink-reddish k-feldspar and epidote. Very irregular breakage to core when split. Low angle (0-15° to core axis) fractures are coated with thick limonitic and carbonate.	C 117807	21.34	24.38	3.04	98	664	27	< .3	< 2	2
		24.38 - 27.43 Broken up pink syenite with many patches of overprinting orange and brown k-feldspar and epidote. Fracture faces from 45° to 0° are	C 117808	24.38	27.43	3.05	98	1143	44	< .3	< 2	3

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		coated with limonitic and hematite, and on some, carbonate, chlorite and malachite.										
		27.43 - 30.48 Pink syenite as described above. From 28.93 to 29.90 is a section that begins with coarse pink k-feldspar with coarse biotite that appears to grade into mafic rich syenite and then into a pyroxenite. (Is this a potassic altered pyroxenite?) Increase in magnetism through section.	C 117809	27.43	30.48	3.05	100	1146	46	0.6	5	4
		30.48 - 33.53 Broken pink and grey syenite. Numerous small patches of k-feldspar and epidote alteration, also some areas showing weak clay alteration. Disseminated blebs of chalcopyrite plus traces of bornite are fracture controlled, usually with biotite-chlorite marking the fracture, oriented at 45-60° to core axis. Most low angles (0 to 20° to core axis) fracture faces are coated with limonite and malachite ± chalcocite. Core breaks with a irregular surface.	C 117810	30.48	33.53	3.05	100	8199	382	6.8	5	3
		33.53 - 36.58 Pink syenite as described above. Patchy k-feldspar and epidote alteration, often cuts core as streaks and bands at 70-90° to core axis. Traces of chalcopyrite.	C 117811	33.53	36.58	3.05	100	5634	124	2.9	2	4
		36.58 - 39.62 Pink and grey syenite as described above. Numerous streaks and bands of epidote alteration cut the core at 75 to 90° to core axis. Traces of disseminated chalcopyrite. Low angle fractures (10-30° to core axis) are coated with limonite, carbonate and malachite.	C 117812	36.58	39.62	3.04	100	8473	235	5.5	4	6
		39.62 - 42.67 Grey syenite subjected to intense epidote alteration in several spots, also numerous patches. Intensely altered spots also show some carbonate alteration.	C 117813	39.62	42.67	3.05	100	2738	58	1.7	3	3
		42.67 - 45.72 Grey syenite with numerous small patches and streaks of epidote. Many k-feldspar alteration envelopes, 1 cm wide, follow fractures at 45° to core axis. Fractures are often marked by thin lines of biotite. At 45.20 to 45.72 a grey syenite is mineralized with disseminated chalcopyrite and bornite to 1%.	C 117814	42.67	45.72	3.05	100	6276	156	3.3	4	4
		45.72 - 48.77 Grey syenite with patchy weak epidote alteration. Malachite coats fractures from 10° to 45° to core axis. From 47.12 to 47.62 there is disseminated chalcopyrite and bornite to 1% combined.	C 117815	45.72	48.77	3.05	100	11149	285	6.4	3	6
		48.77 - 51.82 Grey syenite with many earthy-epidote-rich spots cutting at moderate angles, roughly 45° to core axis. Patches of chlorite-epidote alteration common. Malachite specks noted on a couple of 30° to core axis fracture faces.	C 117816	48.77	51.82	3.05	100	1461	29	0.4	4	3
		51.82 - 54.86 Grey syenite with intense and pervasive epidote alteration, many sections are broken and earthy. Core crumbles easily through lower half of run. Bleached feldspars suggest clay alteration. No sulphides. Weakly magnetic.	C 117817	51.82	54.86	3.04	95	1488	36	0.5	< 2	6
		54.86 - 57.91 Grey syenite with patchy and locally intense epidote alteration. Low angle fractures (10-30° to core axis) core intensely limonitic, deposits are 1-2 mm thick. A few cross-cutting 45° to 60° to core axis fractures have thin 1-2 mm orange k-feldspar alteration envelopes and carry	C 117818	54.86	57.91	3.05	100	1045	27	< .3	2	2

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		blebs of pyrite. Other irregular fractures are marked by meandering lines of fine biotite.										
		57.91 - 60.96 Grey syenite as described above with patchy epidote alteration. Cut by irregular zones of k-feldspar, some low angle fractures (0 - 20° to core axis) are filled with biotite and / or chlorite altered pyroxene.	C 117819	57.91	60.96	3.05	100	2574	77	1.2	4	5
		60.96 - 64.01 Grey syenite as described above contains two patches of limonitic leucocratic syenite (essentially light brown-coloured k-feldspar) from 61.52 to 61.68, and from 62.27 to 62.52. The lower one carries minor amounts of pyrite, as disseminated cubes and fracture fillings. A number of fractures in the syenite. Both irregular / low angle and moderate around 45° to core axis, carry blebs of pyrite and chalcopyrite, otherwise syenite is weakly mineralized, just a few patches of fine disseminated sulphide, mostly pyrite, a minor amount is chalcopyrite.	C 117820	60.96	64.01	3.05	100	3190	184	3.2	4	3
		64.01 - 64.45 Grey syenite becoming very dark grey and mafic-rich towards the contact with leucocratic syenite below. Contact is irregular and low angle (about 10-20° to core axis). Pyrite (cubic) alteration is weakly developed, but forms a 1-2 cm wide envelope along the contact in the syenite. A poor sample break groups this syenite with the leucocratic quartz syenite below.	C 117821	64.01	67.56	3.55	100	385	117	0.6	6	3
64.45	66.10	LEUCOCRATIC QUARTZ SYENITE **64.45 - 66.10** Medium grained , buff-coloured and k-feldspar rich, with 2-3% tiny rust specks. Cut by a weakly developed quartz stockwork, < 1 mm wide and oriented at 75-90° to core axis. Perhaps 15-20% quartz, as idiomorphic grains. Contacts, top and bottom are pyritic.										
66.10	67.56	MESOCRATIC SYENITE **66.10 - 67.56** Grey syenite with several mafic-rich intervals and cut by irregular orange-pink k-feldspar alteration zones. Cross-cutting zones at roughly 45-60° to core axis have sulphide alteration envelopes 1 cm wide around chlorite seams filling fractures. Sulphides are dominantly pyrite (> 75%) with lesser chalcopyrite. Weak chlorite epidote alteration.											
67.56	68.55	LEUCOCRATIC QUARTZ SYENITE (**67.56 - 68.55**) - light grey syenite, largely composed of grey k-feldspar and quartz. This interval is fresher (unaltered) than the leucocratic syenite between 64.45 - 66.10, which is more granular and is weakly clay altered. Cut by thin fractures at 10-20° and 45° which carry minor pyrite. Interval is weakly porphyritic with coarse 1 cm long white k-feldspar crystals intergrown with finer-grained k-feldspar and quartz. Quartz contact is about 10-15%. Contacts are broken, irregular.	C 117822	67.56	68.55	0.99	100	249	7	< .3	< 2	< 2

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
68.55	118.44	MESOCRATIC SYENITE - greyish-pink syenite showing pervasive and intense epidote alteration.										
		68.55 - 70.10 Epidote altered pink syenite as described above. Most of interval is broken and crumbly. Areas of epidote alteration have an earthy, granular quality, and carbonate-clay alteration is moderately well developed in these areas as well. Orange-k-feldspar alteration envelopes are associated with 30° and 90° to core axis fractures.	C 117823	68.55	70.10	1.55	100	841	25	< .3	< 2	7
		70.10 - 73.15 Grey syenite with many fine-grained dark grey mafic-rich patches, often carrying 2-3% disseminated specks of chalcopyrite and up to 1% bornite. Overall weak to moderate chlorite-epidote alteration. Much of the epidote appears as streaks cross cutting core at steep (about 90° to core axis) angles. Epidote-rich areas are NOT mineralized. Mineralized dark areas amount to about 10-20% of the interval. Balance of core is weakly mineralized with minor amounts of disseminated chalcopyrite and pyrite. A short (10 cm) very limonitic zone cuts through at 90° to core axis at 72.80.	C 117824	70.10	73.15	3.05	100	5238	188	2.9	2	4
		73.15 - 74.60 Mesocratic syenite displaying pervasive and intense epidote alteration, along with weak clay and carbonate alteration. Chlorite-epidote rich fractures cut core at 45 and 60° to core axis.	C 117825	73.15	76.20	3.05	100	1824	89	0.9	6	8
		74.60 - 74.90 Biotite pyroxenite - no sulphides. Very little, if any, alteration. Contact above is very limonitic for 7 cm. Contact below is very epidote-rich.										
		74.90 - 76.20 Mesocratic grey syenite subject to locally intense epidote alteration and is mafic-rich in a few sections. Several dark grey, finer-grained [sections] carry minor amounts of chalcopyrite and pyrite blebs.	C 117826	76.20	79.25	3.05	100	2319	119	0.8	3	2
		76.20 - 79.25 Epidote-altered grey syenite, but with malachite specks. Pyritic and limonitic fractures cut the core at 55-60° to core axis. Grey patches are large clumps of chlorite ± biotite are weakly mineralized with disseminated chalcopyrite. Weak clay alteration toward bottom of run.	C 117827	79.25	82.30	3.05	100	1010	48	0.5	2	2
		79.25 - 82.30 Grey syenite showing weak patchy epidote alteration, much less than above. Dark-grey hypidiomorphic medium-grained, with 20% weak chlorite-altered sub-euhedral pyroxene crystals. Run contains very fine-grained disseminated specks of chalcopyrite and bornite. Minor pyrite also mainly associated with fractures. Orange / brownish-red k-feldspar forms 1-10 mm wide alteration envelopes along 45° fractures. Low angle carbonate veinlets, 1-2 mm wide, cut core at 10° to core axis.	C 117828	82.30	85.34	3.04	100	1643	44	0.6	6	2
		82.30 - 85.34 Grey syenite showing patchy but locally intense epidote alteration to 84.00. Fresh grey syenite, for balance of run, is mineralized with 0.5% disseminated blebs of chalcopyrite and minor bornite.	C 117829	85.34	88.39	3.05	100	1390	41	0.3	2	2
		85.34 - 88.39 Grey syenite as described above. Traces of disseminated specks of chalcopyrite and bornite at 87.72 a 10 cm zone of intense epidote alteration marks the beginning of another zone of patchy epidote altered grey syenite.										
		88.39 - 91.44 As described above. Patchy epidote alteration extends to 90.09. Sudden change into fresh grey syenite which extends to bottom of	C 117830	88.39	91.44	3.05	100	1442	36	0.3	< 2	< 2

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		run. Disseminated fine blebs of chalcopyrite to 0.5-1.0%, minor bornite. Also up to 1% pyrite in several spots.										
		91.44 - 94.49 Grey syenite as above, grades quickly into lighter, unmineralized grey syenite, which is cut by several 10 cm wide granular epidote alteration zones. Dark grey zone at top of run carries 1% disseminated fine-grained blebs of chalcopyrite and minor bornite. Syenite in lower half of run begins to develop a pink tone. Continuing magnetic, although the dark syenite appears more magnetic than the pink syenite.	C 117831	91.44	94.49	3.05	100	1612	30	0.6	< 2	2
		94.49 - 97.54 Pink and grey syenite with several melanocratic mafic-rich sections, up to 50 cm in length which are cut by dark bands and streaks of biotite, chlorite and grey orthoclase. This is not the fine-grained biotite migmatite seen elsewhere on property. Dark bands form a poorly developed gneissic texture in spots. Patchy disseminated chalcopyrite, locally reaches 1% but average is much less. Trace of bornite in dark areas. Run ends with a metre of epidote and orange k-feldspar altered pink syenite.	C 117832	94.49	97.54	3.05	100	1330	45	0.4	2	4
		97.54 - 100.58 Grey syenite developing pink tones toward the bottom of run. Patchy, but fairly continuous epidote alteration many cross-cutting pink to orange k-feldspar rich zones cut the core at steep angles (70-90° to core axis). Several 30° fracture faces have malachite stains. Dark grey patches toward bottom of run carry 1% disseminated chalcopyrite and 0.5% bornite. Pink areas carry little mineralization.	C 117833	97.54	100.58	3.04	100	2990	58	1.8	6	4
		100.58 - 103.63 Epidote altered grey syenite with many mafic-rich patches. Mafic content (biotite and pyroxene) in dark grey areas is approximately 40% and more concentrated in the lower half of the run. Cross-cutting streaks of epidote and orange k-feldspar cut the core at 80 - 90° to core axis and are most common in upper half of run. Last 20 cm of run is a mass of green epidote and pink k-feldspar alteration.	C 117834	100.58	103.63	3.05	100	3184	78	1.3	2	5
		103.63 - 106.19 Pervasive and intense epidote alteration, interrupted only by patches of pink k-feldspar. Original rock appears to be grey syenite but alteration has been overwhelming and has destroyed many textures.	C 117835	103.63	106.68	3.05	100	2971	106	1.5	6	9
		106.19 - 106.68 Biotite pyroxenite. Spotted with k-feldspar crystals (subhedral to 1 cm) but is full of epidote spots, mainly unaltered interstitial k-feldspar. Strongly magnetic. Weak chlorite alteration of pyroxene.										
		106.68 - 109.73 Epidote and pink k-feldspar altered pink / grey syenite. In places the epidote and k-feldspar cut the core at steep angles (70 - 90° to core axis) and form alteration envelopes around fractures. There are several medium to coarse grained intervals to 30 cm with pink k-feldspar, fine epidote and medium-grained (1-2 mm) biotite that is very reminiscent of an altered biotite pyroxenite. A dark grey fine grained (or idiomorphic medium-grained), somewhat hornfelsed looking section has weak limonite stains, bordered by orange k-feldspar and carries disseminated specks of chalcopyrite and bornite to about 1% combined. A 30° to 45° fracture set has 1 mm orange k-feldspar alteration envelopes and carries blebs of pyrite.	C 117836	106.68	109.73	3.05	100	1035	42	0.3	5	17
		109.73 - 112.78 Grey syenite as described above. Run begins with a dark grey, weakly limonitic section of 30 cm as described above. Contains	C 117837	109.73	112.78	3.05	100	4587	193	1.9	4	4

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		disseminated chalcopyrite specks. Separated by a granular, earthy epidote and pink k-feldspar altered section for 30 cm. Followed by grey syenite with many irregular brownish pink patches and bands. These appear to cross at steep angles, 45° to 90° to core axis. Grey syenite is mineralized with disseminated specks and blebs of chalcopyrite and bornite locally to 1-2%, average much less, about 0.5 to 1.0% chalcopyrite and 0.25% bornite. A 45° to core axis fracture is very limonitic.											
		112.78 - 115.10 Grey syenite cut by high angle epidote and orangish-pink k-feldspar alteration, generally in the range of 60 - 90° to core axis continuing mineralized with disseminated specks of chalcopyrite and bornite to a combined average of about 1%.	C 117838	112.78	115.10	2.32	100	5085	117	2.1	4	9
		115.10 - 116.39 Melanocratic syenite - dark grey syenite with cross-cutting (at 90°) foliation defined by mafic streaks, biotite and magnetite. Mineralized by disseminated fine grained chalcopyrite and bornite as above, but the concentration declines and is discontinuous with depth.	C 117839	115.10	118.44	3.34	100	1017	65	0.4	3	5
		116.39 - 118.44 Grey syenite as described above, many dark grey sections, dark streaks perpendicular to core axis gives a weak gneissic appearance. Continuing copper sulphide mineralization of 0.5 - 1% chalcopyrite and 0.25% bornite, both as disseminated specks.										
118.44	120.65	BIOTITE PYROXENITE along with MAFIC-RICH SYENITE contact zones above and below.										
		118.44 - 119.11 Mafic rich syenite with gneissic textures from cross-cutting bands of pyroxenite. Patchy epidote alteration. No sulphides seen.	C 117840	118.44	120.65	2.21	100	769	44	< .3	5	8
		119.11 - 120.29 Biotite pyroxenite with up to 30% grey syenite in places. Magnetic, no sulphides seen.										
		120.29 - 120.65 Grey epidote altered syenite weakly sheared at 65° to core axis.										
120.65	126.29	MESOCRATIC SYENITE - dark grey syenite with 20-30% mafic spots, mainly biotite and pyroxenite.										
		120.65 - 121.92 Grey syenite with mafic-rich spots. Mafic centres are mineralized with net-textured chalcopyrite, after assimilated pyroxenite(?) Disseminated chalcopyrite to 1% and minor bornite in the syenite through the run.	C 117841	120.65	121.92	1.27	100	586	63	< .3	2	6
		121.92 - 126.29 Grey syenite as described above, with a 20-30% mafic content - mainly as streaks and clusters forming a weak gneissic texture at 90° to core axis. Weakly mineralized through entire extent of run, small blebs of chalcopyrite and bornite are associated with mafic centres, mineralization becoming more sparse with depth. Magnetic.	C 117842	121.92	126.29	4.37	100	972	80	< .3	2	11
126.29	127.38	BIOTITE PYROXENITE - includes patches of grey syenite. Pervasive weak chlorite alteration. Magnetic.										
		126.29 - 127.38 As described above. No sulphides seen.	C 117843	126.29	127.62	1.33	100	57	15	< .3	< 2	14

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
127.38	129.07	MESOCRATIC SYENITE **127.38 - 127.62** Grey syenite, as described above, this 22 cm section is the mafic rich contact zone with pyroxenite above. Included with sample interval for pyroxenite. **127.62 - 129.07** Grey syenite with many mafic-rich patches, mostly cross-cutting core at steep angles. More felsic and epidote altered toward bottom of interval. No sulphides seen.	C 117844	127.62	129.07	1.45	100	132	10	< .3	< 2	6
129.07	133.11	BIOTITE PYROXENITE - pervasive moderately chlorite alteration. **129.07 - 131.06** As described above. No sulphides seen. **131.06 - 133.11** As described above. No sulphides seen.	C 117845	129.07	131.06	1.99	100	51	6	< .3	10	2
			C 117846	131.06	133.11	2.05	100	188	7	< .3	9	4
133.11	137.97	MESOCRATIC SYENITE - includes a few mafic-rich patches of syenite. Contacts above and below are irregular. **133.11 - 137.97** Pinkish-grey syenite with mafic-rich (pyroxenite) section at top, bottom and at 134.65 which are moderately chlorite-epidote altered. Malachite spots on some mafic centres but no sulphides seen.	C 117847	133.11	137.97	4.86	100	642	38	< .3	< 2	5
137.97	143.64	BIOTITE PYROXENITE - with coarse biotite flakes. **137.97 - 140.21** Biotite pyroxenite as above. First 30 cm displays extensive epidote alteration envelope 1 cm wide each side of 2-4 mm wide pink k-feldspar veinlet. Moderately biotite-rich. Balance of run is moderately chlorite altered (pyroxene only) but not texture destructive. Highly chlorite altered spots are broken up and crumbly. A 6 cm wide cross-cutting k-feldspar zone (grey) cuts core at 60-80° to core axis and carries pyrite. Traces of chalcopyrite disseminated in pyroxenite. **140.21 - 143.64** Biotite pyroxenite as described above. Cut by several 2-3 mm k-feldspar veinlets, alteration envelopes at 30 to 80° to core axis. Chlorite alteration becoming more pronounced toward bottom of run.	C 117848	137.97	140.21	2.24	100	49	68	< .3	9	< 2
			C 117849	140.21	143.64	3.43	100	60	39	< .3	8	5
143.64	152.40	BIOTITE POTASSIUM FELDSPAR PYROXENITE - this interval has 1 cm oikocrystic k-feldspar subhedral crystals in a biotite-chlorite-altered pyroxenite matrix. Oikocrysts have pink centres with grey / buff reaction rims, especially toward bottom, mostly grey oikocrysts near top. **143.64 - 146.30** As described above, pervasive and intense chlorite alteration of pyroxenite. No sulphides. **146.30 - 149.35** As described above. **149.35 - 152.40** As described above but beginning with 1.5 metres of soft broken, earthy core showing extensive chlorite and epidote alteration. Oikocrystic pyroxenite grades into 50 cm of biotite pyroxenite then changes	C 117850	143.64	146.30	2.66	100	16	< 2	< .3	< 2	3
			C 117851	146.30	149.35	3.05	100	12	< 2	< .3	4	3
			C 117852	149.35	152.40	3.05	90	96	6	< .3	4	6

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		abruptly into 30 cm of limonite stained light coloured k-feldspar rich syenite, pink k-feldspar alteration gives blotchy appearance.										
152.40		END OF HOLE.										

Property: Lorraine	**Total Length:** 213.36	DIP TESTS			**Start Date:** September 23, 2001		
Grid Cord:	**Core Size:** BQTW	Footage (m)	Dip Measured	Dip Corrected	**Completion:** September 25, 2001		
Elevation: 1698 m	**Azimuth:** 45.2°	213	-48°	-40°	**Logged By:** Jay W. Page		
Section:	**Inclination:** -45°				**Date logged:** Sept 24-Oct 1, 2001		

NOTES: Bishop Area, PAD: 'B', GPS Location (corrected): UTM 348508.8 E; 6199831.7 N (NAD 83)

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
0	6.10	CASING (20 feet)										
6.10	33.53	MESOCRATIC SYENITE - mafic-rich syenite which is so pervasively altered that it is almost unrecognizable as syenite. Chlorite-epidote-hematite-magnetite-pyrite-carbonate alteration. This intense alteration has resulted in complete texture destruction with indistinct crystal and alteration boundaries.										
		6.10 - 9.14 Altered dark grey syenite as described above. Very pyritic, disseminated pyrite runs about 3-5%, also very magnetic rich, up to 30% locally as fine-grained dark-grey masses. Possible trace chalcopyrite as fine disseminated specks with pyrite. Many patches and spots of epidote and orange-red k-feldspar alteration. A veinlet of red k-feldspar at 6.60, 1 cm thick at 75° to core axis carries cubic pyrite. Heaviest sulphide mineralization is associated with masses of magnetite, epidote and red k-feldspar. Core is very broken.	C 117853	6.10	9.14	3.04	94	7179	16	8.4	2	< 2
		9.14 - 13.37 Altered mesocratic syenite, magnetite-rich as fine-grained patches. Many indistinct patches of epidote and red k-feldspar, which along with magnetite comprise most of the core. Very pyritic, about 3% especially in epidote-magnetite rich parts. Red k-feldspar patches sometimes carry rare blebs of chalcopyrite and bornite. Also a minor amount of chalcopyrite with pyrite is found in chlorite-biotite patches, which are more commonly associated with red k-feldspar. The original unaltered rock in these spots has mafic-rich syenite or syenite with patches of biotite pyroxenite. A grey k-feldspar vein at 11.69, 19 cm wide cuts core at 60° to core axis.	C 117854	9.14	13.37	4.23	98	4771	27	5.6	< 2	< 2
		13.37 - 16.26 Syenite showing pervasive and intense epidote-k-feldspar magnetite alteration, as described above. Dark grey colour tone continuing. Epidote alteration more pronounced toward bottom of interval. Patches of chlorite-biotite sometimes carry chalcopyrite ± bornite blebs. These carbonate veinlets, 1-2 mm thick cut the core at 30° and 45° to core axis.	C 117855	13.37	16.26	2.89	98	3078	36	4.0	3	2
		16.26 - 18.29 An orange-red k-feldspar rich interval in which rock textures and alteration boundaries are more recognizable than above. Much of the red k-feldspar is coarse-grained, to 6 mm crystal size. Chlorite-biotite patches (pieces of pyroxenite?) carry small blebs of chalcopyrite plus rare bornite. All is overprinted with pyrite. Some coarse blebs of chalcopyrite (to 3 mm) is coarse k-feldspar sections. Epidote alteration still pronounced although patches are more distinct.	C 117856	16.26	18.29	2.03	100	1619	10	1.6	< 2	< 2

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		18.29 - 21.34 Syenite displaying epidote and red k-feldspar alteration as described above. Alteration is very patchy but there is continuous alteration of one type or another. Many darker chlorite ± biotite patches often carry disseminated blebs of chalcopyrite and lesser bornite. Continuing pyrite overprint, much of fine-grained pyrite is cubic. Chalcopyrite in this run maybe as high as 1%, bornite to 0.5%. Some chalcopyrite is associated with vague fractures, although most appears to be of intermediate angles (30-60° to core axis).	C 117857	18.29	21.34	3.05	100	2406	23	0.9	2	2
		21.34 - 24.38 Grey syenite showing extensive red k-feldspar alteration along with chlorite alteration of all mafics (except biotite) and minor epidote spots. Patchy chalcopyrite. Mineralization is strong with large blebs where associated with chlorite alterated (± biotite) mafic patches. Average for run is about 1%. Containing pyrite mineralization, about 1%, less than above. Non magnetic.	C 117858	21.34	24.38	3.04	100	2417	24	0.9	3	4
		24.38 - 27.43 Grey syenite showing several intervals of irregular-shaped, vague zones of k-feldspar and epidote alteration. Chalcopyrite is present as fine disseminated blebs in the grey syenite and as blebs in chlorite-altered pyroxenite pieces in which the biotite is preserved. Occasional net-textured chalcopyrite is noted in the pyroxenite. Chalcopyrite is also associated with grey-brown k-feldspar veinlets, most of which are irregular shaped. Containing 1% pyrite, chalcopyrite runs about 2-3%, minor bornite epidote altered sections are not magnetic, remainder of interval is highly magnetic.	C 117859	24.38	27.43	3.05	100	4694	52	2.6	6	< 2
		27.43 - 30.48 Grey syenite as described above. Becoming more k-feldspar altered toward bottom of run. Where k-feldspar alteration or veinlets cross-cut core, it is usually at a moderate to strong angle, about 60° to core axis. Fine, disseminated pyrite is present in the grey syenite but chalcopyrite is usually found as larger blebs, and in several places has associated bornite. Chalcopyrite averages about 1-2% for run.	C 117860	27.43	30.48	3.05	100	3540	48	2.5	6	3
		30.48 - 33.53 Potassium altered (red k-feldspar) syenite with epidote becoming more prominent toward the bottom of run. Fine disseminated chalcopyrite through much of run 1-2% plus minor disseminated bornite and perhaps 1/2% as large blebs of chalcopyrite. Patchy pyrite mineralization in a few spots. Most of core has a very "dirty" indistinct appearance. Weak to moderate magnetism. Red k-feldspar veinlets 1-3 cm wide with biotite and disseminated chalcopyrite cut core at 75 to 90° to core axis. Strongest mineralization associated with relic patches of mafic rock (pyroxenite) that is largely assimilated; magnetite, biotite and chalcopyrite remain, k-spar altered to red k-spar or epidote.	C 117861	30.48	33.53	3.05	100	4631	54	3.7	< 2	5
33.53	34.24	LEUCOCRATIC SYENITE - medium-grained, buff-coloured syenite with prominent 1-2 mm cubic pyrite.										
		33.53 - 34.24 As above with 2-4% cubic pyrite. Cut by several 1-2 mm quartz veins which also carry cubic pyrite, oriented at 45 and 90° to core axis. Small interval is grouped with syenite below. Contact above is	C 117862	33.53	36.58	3.05	100	5686	130	5.2	3	2

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		indistinct and low angle (about 15-25° to core axis). Contact below is abrupt at 45° to core axis.										
34.24	41.02	MESOCRATIC SYENITE - displaying intense k-feldspar and chlorite alteration. **34.24 - 36.58** Red-k-feldspar and chlorite altered syenite. Most of run is "dirty" looking-indistinct red-brown k-feldspar with irregular patches of chlorite-altered mafic (pyroxenite). Grey k-feldspar in chlorite patches is very indistinct and shows moderate sericite alteration. Chalcopyrite noted in many of these patches, but is more common as disseminated blebs in red k-feldspar. In a coarse-grained section irregular patches of grey k-feldspar carry both pyrite and chalcopyrite among coarse 0.5 to 10 mm red k-feldspar crystals. Epidote is common within chlorite patches. The lower part of this interval, about last 50 cm, is very chlorite rich, probably on altered sections of pyroxenite, composed of 50-60% chlorite, 10-15% fine biotite, 25-30% sericite, ± epidote altered k-feldspar. Contains about 3% fine disseminated chalcopyrite. **36.58 - 41.02** Altered syenite as described above, patchy chlorite - altered mafics carry some chalcopyrite blebs. Most of mineralization as disseminated blebs in red-brown syenite, often associated with epidote spots. Also minor bornite with some chalcopyrite blebs. Lower 50 cm has low angle fracture with 1 mm thick chlorite coating. Slickensides are parallel to core axis. Fractures are oriented at 0-5° to core axis. K-feldspar in this section is brown-coloured and shot through with hairline veinlets of carbonate in all directions.	C 117863	36.58	41.02	4.44	100	6988	82	5.1	< 2	5
41.02	46.18	BIOTITE PYROXENITE - showing pervasive and intensive chlorite alteration of pyroxene. Composition varies to biotite potassium feldspar pyroxenite. Variable alteration of k-feldspar to epidote. Magnetic. **41.02 - 43.40** Biotite pyroxenite showing pervasive and intense chlorite alteration and increasing epidote alteration of k-feldspar toward bottom of interval 10-15% red-brown k-feldspar is unaltered - perhaps a later k-feldspar alteration. Biotite is about 20% and is aligned giving a gneissic texture in a few spots. Biotite is coarse, to 6 mm, and is unaltered. Epidote alteration begins weakly, develops to about 10-15% of core by end of interval. No sulphides seen. **43.40 - 46.18** Biotite pyroxenite as described above. K-feldspar content has increased by 45.40 to over 50% and is much coarser than the chlorite "matrix". Biotite not as prominent, maybe 10% and finer grained. No sulphides seen. Epidote alteration is more patchy now.	C 117864	41.02	43.40	2.38	100	524	54	< .3	7	9
			C 117865	43.40	46.18	2.78	100	54	9	< .3	6	9
46.18	56.65	MESOCRATIC SYENITE - reddish-brown to pink syenite with grey tones. Numerous thin mafic lenses show some alignment giving a weakly developed gneissic texture oriented at 80-90° to core axis. Moderately magnetic.										

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION
		46.18 - 48.77 Greyish pink syenite as described above. Weak chlorite and epidote alteration except where k-feldspar has a reddish brown colour and fine-grained epidote is common. Chlorite is found as a fracture coating with carbonate on 30 to 45° to core axis fractures. K-feldspars alteration envelopes show parallel alignment to gneissic foliation where developed. **48.77 - 51.82** Greyish pink syenite as described above. Trace pyrite carbonate veinlets 1-2 mm thick are common at 45° to core axis. Chlorite alteration of mafic lamellae is common. Last metre is coarse reddish-brown k-feldspar. **51.82 - 54.86** Reddish-brown syenite with mafic rich patches and bands cutting core axis at 80°. Several small shears cut the core at approximately 30 to 45° to core axis. Core in these sections is broken and chlorite and carbonate rich. Pyrite is common in cross cutting features both as disseminated blebs and as fine cubic pyrite. Most of core is coarse grained reddish-brown k-feldspar. **54.86 - 56.65** Coarse reddish-brown and pink syenite. Becoming very coarse grained toward bottom of interval, 1-2 cm. Chlorite alteration of mafics, minor carbonate. Continuing magnetic. Intense sericitic alteration of feldspars in mafic patches. K-feldspar (rusty orange colour) alteration very intense along 35-45° fractures, leaving 2-4 mm wide alteration envelopes.
56.65	60.22	MESOCRATIC MAFIC-RICH SYENITE - pink syenite containing several short intervals of chlorite-epidote altered pyroxenite plus numerous large patches. Because of the high degree of alteration there is not a big difference between the colour tone of the above syenite and this section. **56.65 - 57.81** Grey chlorite-altered pyroxenite and magnetite feature less to begin with, but develops pyroxenite-like textures within 30-50 cm, e.g. randomly distributed flakes of biotite, sericite altered spotted patches of feldspars. Followed by patches of intensely chlorite and epidote altered pyroxenite in coarse reddish-brown k-feldspar. No sulphides seen. **57.81 - 60.22** Mafic-rich syenite as described at the end of the above interval. Very irregular patches of intensely altered pyroxenite, with just chlorite, epidote, minor sericite, biotite and magnetite remaining, all hosted by very coarse grained reddish-brown k-feldspar (1-3 cm crystal length). Possible trace of bornite in one mafic centre.
60.22	63.61	MESOCRATIC SYENITE - pink and reddish brown syenite that is relatively mafic poor compared to above interval, but both have similar colour tone. This interval still has a few highly mafic (pyroxenite) patches. **60.22 - 63.61** Mesocratic (pink) syenite as described above. Contains very large, distinctive, buff-brown coloured k-feldspar crystals to 8 cm, but many smaller to 1 cm. Broken surfaces of split core has powdery coating of sericite, minor carbonate. Trace pyrite.

SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
C 117866	46.18	48.77	2.59	100	329	42	< .3	5	14
C 117867	48.77	51.82	3.05	100	453	90	< .3	4	10
C 117868	51.82	54.86	3.04	98	206	36	< .3	4	14
C 117869	54.86	57.91	3.05	100	272	60	< .3	5	12
C 117870	57.91	60.96	3.05	100	1044	139	< .3	8	25
C 117871	60.96	64.01	3.05	100	586	43	0.5	6	9

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
63.61	69.53	MESOCRATIC MAFIC-RICH SYENITE - pink mafic-rich syenite that is very similar in tone to the mesocratic syenite above because of its coarse grain size and the intense chlorite. Epidote alteration of mafics. **63.61 - 64.01** Mafic-rich (chlorite-biotite) syenite, slightly more mafic than above, and included with the above sample. Bands and streaks of chlorite between coarse and aligned k-feldspar crystals gives a fabric oriented at 45° to core axis. **64.01 - 67.06** Mafic / chlorite-rich syenite as described above. Includes some brown k-feldspar crystals to 3-4 cm. Most mafics and mafic pebbles very amorphous, featureless, and comprise 50-60% of core. Very light colour tone because of alteration. Disseminated chalcopyrite and bornite in some mafic spots. At 66.50 to 66.70 there is a broken sheared zone at a low angle (0-10° to core axis) which is extensively chlorite and carbonate coated. Broken rock fragments are cemented with carbonate. **67.06 - 69.53** Syenite as described above, with many partly assimilated, chlorite altered mafic patches. Syenite is mostly very coarse-grained, to 6 cm reddish-brown k-feldspar. Includes several large blebs (to 5 mm) of chalcopyrite. Minor carbonate. A thin hairline quartz stockwork is weakly developed and cuts the core axis mostly at high angles (>60°). Small blebs of pyrite and chalcopyrite are noted in minor amounts near quartz veinlets.	C 117872	64.01	67.06	3.05	100	958	29	0.4	6	23
			C 117873	67.06	70.10	3.04	100	682	60	1.0	4	9
69.53	71.53	BIOTITE POTASSIC FELDSPAR PYROXENITE - showing intense chlorite alteration, and interrupted by several syenite sections. **69.53 - 71.53** Interval begins with mafic rich syenite with coarse-grained k-feldspar crystals to 2-3 cm then grades into intensely chlorite altered biotite potassic-feldspar pyroxenite. Chlorite alteration has been pervasive and intense, resembling in the complete destruction of pyroxene textures. Rock is carbonate rich. Lower angles (0-20° to core axis) quartz veinlets, 1-4 mm thick, meander through sections of core. Bright orange-red alteration envelopes are 2 mm wide and carry minor pyrite. Other 0.2-2 mm wide quartz veinlets cut the core at 45° to core axis. This pyroxenite interval was not broken out separately [for analysis] due to intensity of alteration and similarity of syenite above and below.										
71.53	73.09	MESOCRATIC MAFIC-RICH SYENITE (**71.53 - 73.09**) - intense sericite and chlorite alteration of mafic patches has resulted in a mesocratic rather than a darker melanocratic tone. Sericitic and pyritic alteration has dominated over chlorite in some large mafic patches in this interval. Red-orange-brown k-feldspar is prominent, occurring up to 3 cm in crystal size. Where measurable, mafic streaks and bands and quartz veins cut the core axis at 80-90°. Sericitic altered sections (± pyrite) are associated with a fracture stockwork of hairline quartz veinlets oriented at 20-70° to core axis. Relic	C 117874	70.10	73.09	2.99	100	281	151	< .3	5	11

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		biotite (unaltered) is all that remains of original pyroxenite. Mafic patches in lower half of interval are chlorite altered. A low angle (0-5° to core axis) fracture is filled with 1 mm of chlorite and carbonate.										
73.09	74.25	BIOTITE POTASSIC FELDSPAR PYROXENITE - displaying intense chlorite-epidote alteration. Contains less biotite than is usual for this rock type (about 5-10%). Magnetite 1-2% appears unaffected by alteration. **73.09 - 74.25** Two sections of biotite pyroxenite separated by a 15 cm section of coarse k-feldspar. Altered pyroxenite as described above. Cut by hairline quartz veins at 75 to 90° to core axis.	C 117875	73.09	73.29	0.20	100	265	11	0.4	2	13
74.25	76.47	MESOCRATIC MAFIC-RICH SYENITE - large bands, streaks and elongate patches of chlorite-epidote altered mafic form a gneissic texture at 60-70° to core axis. **74.25 - 76.47** Gneissic syenite as described above. Very coarse-grained pinkish-brown k-feldspar to several cm are sub-aligned with gneissic texture. Mafic patches and streaks are strongly epidote-chlorite altered through upper part of interval. Epidote decreases toward bottom, leaving just chlorite, along with relic biotite. Small amount of fine carbonate throughout interval.	C 117876	73.29	76.47	3.18	100	511	26	< .3	5	11
76.47	78.06	MELANOCRATIC MAFIC-RICH SYENITE - a mixture of coarser grained syenite, chlorite altered mafic syenite and chlorite altered pyroxenite. Interval shows frequent variation between the above rock types. **76.47 - 78.06** As above low angle shearing (0 to 10° to core axis) through most of interval. Hematite and chlorite coatings common on broken rubble surfaces	C 117877	76.47	78.06	1.59	98	270	6	0.6	4	12
78.06	81.80	BIOTITE PYROXENITE - with several 10-15 cm sections of coarse orangish-brown k-feldspar. **78.06 - 79.78** Biotite pyroxenite as described above showing complete alteration of pyroxene to chlorite with a complete loss of original textures. Biotite, about 15% as 4-6 mm randomly distributed flakes. Run includes 3 sections, 10-15 cm long of coarse k-feldspar. This run could have included bottom 30 cm of last run above. **79.78 - 81.80** Biotite pyroxenite as described above.	C 117878	78.06	79.78	1.72	100	246	2	0.7	< 2	7
			C 117879	79.78	81.80	2.02	100	178	< 2	0.4	3	16
81.80	88.31	MESOCRATIC MAFIC-RICH SYENITE - showing intense chlorite and sericite alteration of mafic patches hosted by pinkish-red syenite. **81.80 - 85.34** Mafic patches comprise 40-60% of the rock and are altered as noted above. Fine carbonate found disseminated throughout rock and is hairline fracture fillings, mostly in the 30-60° to core axis range.	C 117880	81.80	85.34	3.54	100	3104	19	1.2	4	9

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		Disseminated cubic pyrite and small blebs of chalcopyrite with minor bornite. **85.34 - 88.31** Mafic rich syenite as described above. Much of the syenite is finer grained than seen higher in hole. Streaks of magnetite give strong magnetic character. Continuing minor blebs of pyrite and chalcopyrite.	C 117881	85.34	88.31	2.97	100	2852	80	1.4	3	8
88.31	101.01	BIOTITE PYROXENITE - beginning fine grained, becoming coarser grained with depth. Intense and complete texture destruction of pyroxene by chlorite alteration. Upper part has more k-feldspar than below. **88.31 - 91.44** Biotite pyroxenite as described above. Well mineralized with 2% chalcopyrite at 89.60 for 50 cm, then a blank section separates it from a lower bornite-rich section from 90.76 to the end of the run.	C 117882	88.31	91.44	3.13	100	2837	45	2.5	8	30
		91.44 - 94.49 As above, bornite-rich (1-2%) mineralization continues to 91.95. The lower part includes patchy epidote and sericite alteration of feldspars. Epidote alteration is strongly developed after 94.00. Small blebs of bornite are associated with / intergrown with blebs of magnetite over a short distance (about 20 cm) near 94.00. Chlorite alteration of pyroxenes has decreased remarkably and by the lower half of this run is only weakly evident and is NOT texture destructive.	C 117883	91.44	94.49	3.05	100	1383	53	1.8	4	14
		94.49 - 96.50 Biotite pyroxenite as described above. Several small bornite blebs noted with magnetite. Patchy chlorite and epidote alteration, after 95.53 core becomes very biotite rich, surprisingly well mineralized with 2-3% disseminated blebs of bornite, minor specks of chalcopyrite. This section (95.53 - 96.50) contains 60-80% fine-grained biotite grades smoothly into biotite pyroxenite (pyroxenite-rich).	C 117884	94.49	96.50	2.01	100	2605	17	1.9	5	18
		96.50 - 97.73 Biotite potassium - feldspar pyroxenite. Grouped with the pyroxenite because it is essentially the same rock type but with 40-60% k-feldspar instead of 10-20%. Continuing mineralized with chalcopyrite and bornite blebs, the bornite is sometimes found separately, but more commonly forms a composite bleb with chalcopyrite. Averages about 1-2% combined.	C 117885	96.50	97.73	1.23	100	974	4	0.8	< 2	3
		97.73 - 101.01 Biotite pyroxenite as described above 96.50. Weak chlorite alteration of pyroxene becomes stronger with depth, also epidote alteration of feldspars becomes very pronounced toward bottom of run. K-feldspar varies from 15% to 40% and variation tends to be abrupt rather than graded. Sulphides have died out, only a trace.	C 117886	97.73	101.01	3.28	100	160	< 2	< .3	3	4
101.01	108.14	SYENITE - showing variations in mafic content, alteration and mineralization. The mafic in this case is largely biotite which defines gneissic texture of bands and streaks at 60-80° to core axis, most commonly about 70°. Small irregular blebs of sulphide are interstitial to biotite in the mafic parts. Sulphide is about 60-70% pyrite, 30-40% chalcopyrite. Total sulphide is 1-2% of rock.										

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		101.01 - 103.63 Mesocratic grey syenite with 10% fine-grained biotite at the top, becoming more mafic rich toward bottom (about 40%) upper 2 metres of interval has many pink k-feldspar alteration envelopes in the form of circular patches or envelopes paralleling fractures, range from 3 mm to 2 cm in size, commonly have epidote centres. No sulphide associated with these alteration centres. Pyroxene altered to chlorite nearby.	C 117887	101.01	103.63	2.62	100	279	< 2	< .3	3	< 2
		103.63 - 106.68 Mafic-rich syenite as described above. Gneissic texture only weakly developed in a few spots. Mafics found mostly as irregular patches. Cross-cutting k-feldspar rich bands and sections show pink k-feldspar and epidote alteration, oriented at 60 to 90° to core axis. Last 40 cm of interval is k-feldspar rich and displays intense chlorite-epidote alteration of mafic patches. Well mineralized with net-textures chalcopyrite and bornite on last 9 cm, 10-15% chalcopyrite 10% bornite, trace pyrite (?) all sulphides interstitial to pyroxene in a mafic patch (of pyroxenite?). Most of interval (103.63 - 106.28) is grey melanocratic syenite with many mafic patches and streaks. Sulphides mostly associated with mafic / biotite rich patches, found as irregular blebs interstitial to biotite. 1-2% sulphide with 60-80% pyrite, 20-40% chalcopyrite. More pyrite rich at top. Chalcopyrite rich at bottom. Biotite-rich sections in last metre include 0.5% bornite with chalcopyrite.	C 117888	103.63	106.68	3.05	100	2836	109	2.2	6	5
		106.68 - 108.14 Mesocratic grey syenite with several biotite rich mafic patches. This run could have been started at 106.00. 5-10% biotite except for some short intervals where it reaches 40%. Several patches of pinkish-orange k-feldspar with associated epidote. Very heavily mineralized with up to 10-15% chalcopyrite and 10% bornite which form net-like textures interstitial to biotite and k-feldspar. Average for run closer to 3-5% chalcopyrite and bornite (each). Bornite shows net textures in almost assimilated patches of pyroxenite (both with and without chalcopyrite). Very magnetic.	C 117889	106.68	108.14	1.46	100	24665	367	28.0	< 2	5
108.14	108.88	LEUCOCRATIC SYENITE - medium grained light buff coloured mafic-poor syenite. Grades into unit below.										
		108.14 - 108.88 As above, cut by thin fractures with 1 mm pink alteration envelopes at 0 to 60° to core axis which carry minor chalcopyrite. Tiny specks of chlorite altered mafics, some of which has pyroxene, overall mafics are about 5% and fine grained. Non-magnetic.	C 117890	108.14	108.88	0.74	100	4849	92	4.5	< 2	< 2
108.88	110.45	MESOCRATIC MAFIC-RICH SYENITE (**108.88 - 110.45**) - grades from leucocratic syenite above through several patches of altered pyroxenite and then progressively more mafic (biotite) and darker into the pyroxenite below. Two sections are very heavily mineralized with up to 10% chalcopyrite and 25% bornite, (109.04 to 109.34, and 110.22 to 110.40), plus several other patches of chalcopyrite and bornite rich mineralization.	C 117891	108.88	110.45	1.57	100	41832	352	47.6	< 2	7

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		Some of the stronger mineralization appears to be associated with other mafics, especially pyroxene.										
110.45	113.12	BIOTITE PYROXENITE - varying to biotite potassium-feldspar pyroxenite and showing variable, but generally weak chlorite alteration. Contacts show stronger chlorite alteration and coarse biotite to 50%. Biotite generally about 15% as coarse random flakes. Contacts abrupt but irregular oriented 45-90° to core axis. **110.45 - 113.12** Disseminated bornite blebs in coarse biotite rich upper contact.	C 117892	110.45	113.12	2.67	100	371	11	0.5	3	3
113.12	114.35	SYENITE - a contact zone where the syenite grades from very light mesocratic (almost leucocratic) to pyroxenite. Mafic content varies from 5% fine-grained biotite to pieces of chlorite altered pyroxenite, to massive fine to medium grained biotite (biotite alteration of pyroxene). Patchy epidote alteration which is accompanied by chlorite alteration of pyroxenes. Mafic content near end of interval is 10% biotite, 45% pyroxene. **113.12 - 113.74** Mesocratic syenite. **113.74 - 114.35** Mafic rich syenite.	C 117893	113.12	115.82	2.70	100	904	46	< .3	< 2	20
114.35	123.16	BIOTITE PYROXENITE - varying in several sections to biotite potassium-feldspar pyroxenite. Patches of chlorite-epidote alteration are common but not continuous. Patches of pinkish-brown k-feldspar are noted but are more common as veinlets / alteration envelopes at 45° to core axis. **114.35 - 115.82** Biotite pyroxenite as described above, includes several k-feldspar-rich sections, including one which is 32 cm long and is indistinguishable from above syenite and in included in the same sample. Disseminated and net textured chalcopyrite and bornite noted in the pyroxenite-rich sections, especially toward the bottom of the interval. **115.82 - 118.87** Fine-grained biotite pyroxenite showing generally weak chlorite alteration, biotite-rich also much of it is very fine grained, possibly an alteration product of pyroxene. Patchy epidote alteration. Includes several k-feldspar rich patches and 1 cm veinlets cutting core at 20° to core axis. Weakly mineralized with disseminated blebs of chalcopyrite with minor bornite. **118.87 - 121.83** Biotite pyroxenite as described above, but showing more variation in grain size of the biotite, ranging from very fine-grained to coarse grained (and >50% biotite). Patchy epidote alteration appears to cut core at high angles (about 90° to core axis). This interval appears to be mineralized a bit more strongly than above, about 0.5 to 1.0% chalcopyrite with minor bornite. A few spots show net-textured sulphides but is mostly pyrite (>80%). This interval becomes more k-feldspar-rich with depth, increasing to 30-40%.	C 117894	115.82	118.87	3.05	100	316	25	0.8	5	21
			C 117895	118.87	121.92	3.05	100	592	27	0.5	5	23

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		121.83 - 123.16 Potassium-feldspar biotite pyroxenite. K-feldspar content has increased to as high as 60% average about 40%. Most of run is not mineralized; a few spots carry chalcopyrite blebs with bornite. Patchy epidote alteration. Some short sections of pyroxenite carry chalcopyrite blebs, and are cut by 90° to core axis fractures carrying cubic pyrite.	C 117896	121.92	123.16	1.24	100	1036	31	0.6	3	16
123.16	123.52	LEUCOCRATIC SYENITE DYKE - medium grained light grey syenite. **123.16 - 123.52** As above. Syenite carries minor pyrite. Cut by several hairline quartz veinlets at 30° to core axis.	C 117897	123.16	123.52	0.36	100	17	< 2	< .3	< 2	< 2
123.52	133.81	POTASSIUM FELDSPAR BIOTITE PYROXENITE - with many variations in k-feldspar content and biotite. Includes many sections of biotite pyroxenite. Grain size varies widely also, from fine grained potassium feldspar pyroxenite (50% pyroxene, 45% k-feldspar, 5% biotite) to coarse-grained biotite pyroxenite (25% biotite, 60% pyroxene, 15% k-feldspar). Fairly wide-spread weak chlorite alteration and patchy epidote alteration. Finer-grained sections appear to have been exposed to less alteration. **123.52 - 124.97** Biotite pyroxenite as described above. Biotite-rich to 124.49, then k-feldspar rich for balance of run. Weakly mineralized - minor disseminated blebs of chalcopyite with bornite.	C 117898	123.52	124.97	1.45	100	583	14	0.4	2	10
		124.97 - 128.02 As described above, but with more variation in grain size and composition. Chlorite and epidote alteration more frequent than above. Trace chalcopyrite.	C 117899	124.97	128.02	3.05	100	988	19	0.8	4	13
		128.02 - 131.06 Biotite pyroxenite as described above, showing a wide variation in grain size and biotite content. Weakly mineralized with minor blebs of chalcopyrite and traces of bornite.	C 117900	128.02	131.06	3.04	100	1963	25	1.1	7	20
		131.06 - 133.81 Fine-grained biotie pyroxenite grading into coarse grained potassium-feldspar biotite pyroxenite with weakly developed oikocrysts of k-feldspar.	C 117901	131.06	133.81	2.75	100	456	19	< .3	9	16
133.81	137.32	MESOCRATIC SYENITE - grey syenite that is mafic rich in spots. **133.81 - 137.32** Run includes several large patches of pinkish-orange k-feldspar alteration with epidote centres. 5-10% biotite flakes to 6 mm plus dark grey mafic wisps that are largely altered to biotite. Run also includes several patches of partly assimilated / altered pyroxenite. Weakly mineralized with a few blebs of chalcopyrite and minor bornite.	C 117902	133.81	137.16	3.35	100	1026	21	< .3	2	8
137.32	139.09	BIOTITE PYROXENITE - with variable k-feldspar content grading into potassium-feldspar biotite pyroxenite. Weak to moderate chlorite alteration of pyroxenes patchy epidote alteration of feldspars, often surrounded by halo of pink k-feldspar alteration.										

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		137.32 - 139.09 Sample interval includes 16 cm of above syenite plus interval of biotite pyroxenite. Heavily mineralized with up to 6% chalcopyrite and 1% bornite, average closer to 1-2% chalcopyrite, minor bornite.	C 117903	137.16	139.09	1.93	100	8923	206	6.7	5	21
139.09	155.07	MESOCRATIC SYENITE - medium grained grey syenite, biotite mostly over 2 mm and 5%. Includes a few short sections, 5-10 cm long of mafic-rich syenite. Mafic content appears to increase with depth, but is only fine-grained biotite clusters replacing pre-existing mafic (pyroxene?). Magnetic.										
		139.09 - 143.05 Grey syenite as described above. Well mineralized with disseminated specks and blebs of chalcopyrite (about 2%) which often includes bornite (about 0.5%).	C 117904	139.09	143.05	3.96	100	10117	223	7.0	5	4
		143.05 - 146.30 Grey syenite as above with a medium dark tone, becoming mafic-rich (30-40%) composed of fine networks and clusters of fine biotite. Minor patchy epidote alteration. Some blocky pink k-feldspar alteration toward bottom of run. Mineralization has mostly died out, just very fine disseminations and some larger blebs that are fracture controlled (60° to core axis). Trace bornite.	C 117905	143.05	146.30	3.25	100	980	40	0.3	3	2
		146.30 - 148.23 As described above with minor blebs of chalcopyrite.	C 117906	146.30	148.23	1.93	100	350	34	< .3	4	3
		148.23 - 150.10 As above, mineralized with very fine grained chalcopyrite and bornite disseminated as tiny specks. About 2% chalcopyrite, trace bornite. Trace pyrite? Continuing magnetic.	C 117907	148.23	150.10	1.87	100	6689	134	3.4	2	3
		150.10 - 152.40 As above, approximately 1-2% fine disseminated chalcopyrite with a few large blebs. Trace to minor bornite.	C 117908	150.10	152.40	2.30	100	5809	91	3.9	4	2
		152.40 - 154.02 Grey syenite as described above. Continuing well mineralized with 1-2% disseminated tiny blebs of chalcopyrite, minor bornite. Fracture controlled chalcopyrite form lines of blebs at 45 - 60° to core axis. A patch of altered pyroxenite about 1 cm x 2 cm is heavily mineralized with 10% bornite and 15% chalcopyrite.	C 117909	152.40	154.02	1.62	100	6065	95	4.1	5	< 2
		154.02 - 155.07 Grey syenite with slightly more biotite about 10-15%, includes pieces of chlorite-epidote altered pyroxenite toward bottom of run. Small mafic patches carry a surprising amount of bornite as tiny specks. These mafic patches, net-like features are composed of mainly fine biotite (after pyroxene?) with chlorite. Cross-cutting k-feldspar zones 1-2 cm wide are at 45-60° to core axis.	C 117910	154.02	155.07	1.05	100	1347	28	1.1	< 2	14
		Note: From 155.07 to 171.53 there is a 16.46 m section of alternating bands of biotite pyroxenite and mafic-rich / mesocratic syenite.										
155.07	161.34	BIOTITE PYROXENITE - showing locally intense chlorite alterations. 15-20% coarse biotite to 6 mm are often sub-aligned giving a weakly developed gneissic texture overall, but a texture that is well developed at 45 to 80° to										

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		core axis in some sections. Amount of biotite and chlorite alteration appears to be greater near upper contact. Contact is irregular but overall is at about 45° to core axis.										
		155.07 - 158.50 Biotite pyroxenite as above contact with syenite is very carbonate rich. At 155.60 there is a chlorite altered fracture below which the biotite pyroxenite has a pronounced foliation, first at 80° to core axis, then gradually reclining to 60° to core axis.	C 117911	155.07	158.50	3.43	100	25	4	0.5	< 2	< 2
		158.50 - 161.21 As above.	C 117912	158.50	161.21	2.71	100	10	< 2	< .3	< 2	< 2
161.34	163.30	MESOCRATIC SYENITE -grey syenite as described between 139.09 to 155.07 includes patches of biotite pyroxenite, particularly near the end of the interval. Mineralized with disseminated chalcopyrite (1%) and a trace of bornite.										
		161.21 - 163.30 As described above. Bornite common in some patches of biotite altered mafic.	C 117913	161.21	164.59	3.38	100	1864	78	1.2	3	11
163.30	163.82	BIOTITE PYROXENITE (**163.30 - 163.82**) - showing weak to moderate chlorite alteration. Magnetic.										
163.82	164.70	MESOCRATIC SYENITE - Grey syenite as described above, grading through mafic-rich syenite. Very magnetic. Very small mafic wisps are biotite altered.										
		163.82 - 164.70 As above, weakly mineralized with minor to 0.5% chalcopyrite which increases toward bottom of interval. Well mineralized near clumps of biotite.										
164.70	165.82	MAFIC-RICH SYENITE - Pink k-feldspar altered grey syenite containing numerous pieces of chlorite-epidote-sericite altered biotite pyroxenite, and grading into the biotite pyroxenite below.										
		164.70 - 165.82 Syenitic sections are mineralized as above, many small pyroxenite pieces are strongly mineralized with large irregular blebs of chalcopyrite. Sections of massive pyroxenite with coarse k-feldspar-epidote patches is not mineralized.	C 117914	164.59	165.84	1.25	100	3343	175	2.2	3	20
165.82	168.90	BIOTITE PYROXENITE - As described previously, 10-15% coarse biotite clusters gives a "spotted appearance" pervasive weak to moderate chlorite alteration of pyroxene.										
		165.82 - 168.90 Biotite pyroxenite as above contains some weakly developed oikocrysts, which show some epidote-sericite alteration pervasive moderate to intense chlorite alteration of pyroxene. No sulphides seen.	C 117915	165.84	168.90	3.06	100	36	< 2	< .3	< 2	3

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
168.90	171.53	MAFIC-RICH SYENITE - coarse-grained pinkish-orange coloured syenite showing intense chlorite alteration of pyroxenitic sections, patchy irregular zones of epidote with associated moderate sericite-clay alteration of feldspars. Interval contains many patches of pyroxenite including between 169.55 - 170.04. **168.90 - 171.53** Mafic-rich sections in lower part of interval contain, over short sections, up to 6% chalcopyrite and 2% pyrite. Patchy epidote and chlorite alteration very prominent in lower part of run.	C 117916	168.90	171.53	2.63	100	1839	23	0.4	4	19
171.53	207.00	MELANOCRATIC SYENITE - mafic-rich grey syenite grading into migmatitic syenite. Includes patches and short intervals of biotite pyroxenite showing intense and pervasive biotite and chlorite alteration of the pyroxene. Large biotite flakes unaffected. Lightly magnetic. **171.53 - 173.74** As described above. Pervasive pyrite ± sericite alteration. Most of pyrite is in cubes, probably 4% pyrite, minor chalcopyrite in mafic centres. Small patches of mafic show intense chlorite-biotite alteration. Some chalcopyrite and pyrite blebs are fracture controlled (at 45° to core axis).	C 117917	171.53	173.74	2.21	100	6184	81	3.1	4	12
		173.74 - 176.78 Initial part of run is as described above, but with most pyrite being fracture controlled (45-60° to core axis). After 173.85 core becomes very mafic rich for about 40 cm, and pyroxenite is almost entirely altered to biotite (probably originally a biotite pyroxenite). Coarse 4 mm biotite unaffected. 20% grey feldspar shows weak sericite alteration. See chlorite (after pyroxene). Balance of run is grey syenite showing pink k-feldspar alteration and several biotite-rich mafic parts. Mafic sections carry 1-2% pyrite and chalcopyrite, minor disseminated sulphide in the syenite.	C 117918	173.74	176.78	3.04	100	2618	13	0.3	< 2	6
		176.78 - 179.83 Grey syenite as described above. Numerous 1-2 cm patches of biotite and strongly mineralized with blebs of pyrite and chalcopyrite. Larger blebs are recognizable as biotite pyroxenite, strongly mineralized and biotite-chlorite altered. Some low angle (10° to core axis) 1 mm feldspar veinlets are barren.	C 117919	176.78	179.83	3.05	100	4706	21	0.9	< 2	3
		179.83 - 182.88 Grey syenite with biotite altered mafics as described above but with more chlorite alteration of mafics and pyrite-sericite alteration of k-feldspars. Mafic patches especially those with coarse biotite are strongly sulphide mineralized with blebs of chalcopyrite among the biotite flakes and pyrite interstitial to feldspars. Fine disseminated pyrite to several percent through syenitic fraction. Chalcopyrite on 45° to core axis fractures. A weakly-defined foliation at 35-45° to core axis is evident in a few spots, a result of parallel alignment of biotite.	C 117920	179.83	182.88	3.05	100	6459	45	2.7	4	4
		182.88 - 185.93 Grey syenite as described above with fine disseminated biotite along with coarse patches of biotite. Cross cutting pink k-feldspar alteration envelopes (3-12 mm wide) cut the core at 30-40° to core axis, roughly parallel to foliation (as defined by biotite) at these locations. Interval	C 117921	182.88	185.93	3.05	100	2780	17	0.8	2	5

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		is mineralized through entire extent by fine-grained disseminated pyrite (often as cubes) and small blebs of chalcopyrite. Mainly just pyrite in k-feldspar alteration centres. Weakly developed foliation as defined by biotite in a variety of orientations (migmatite).										
		185.93 - 188.98 Grey syenite as described above, with an increase in pink colour tone perhaps reflecting an increase in k-feldspar alteration. Weakly developed foliation as defined by biotite. Large clots of coarse biotite to 1 cm. Strongly mineralized as described above, disseminated pyrite to 4%, 1-2% chalcopyrite, with large blebs associated with coarse-grained biotite clumps.	C 117922	185.93	188.98	3.05	100	12015	193	9.0	2	3
		188.98 - 192.02 Greyish pink syenite as described above. Large flakes of biotite (about 5%) form random clumps often with large blebs of chalcopyrite. 10-15% fine biotie in syenite. Disseminated 2-3% pyrite, 1-2% chalcopyrite, locally to 4%.	C 117923	188.98	192.02	3.04	100	10966	263	7.5	< 2	4
		192.02 - 195.07 Grey syenite as described above. Includes several sections of mafic-rich syenite, and very coarse-grained k-feldspar and biotite. Very coarse-grained section contains 4-5% large blebs of chalcopyrite. Also patches of cubic pyrite. Most of run is mineralized with 2-3% large blebs of chalcopyrite. Chlorite altered mafic spots contain fine blebs of chalcopyrite and pyrite.	C 117924	192.02	195.07	3.05	100	11494	216	7.4	< 2	4
		195.07 - 198.12 Grey syenite as described above. Continuing coarse flakes of random biotite. Strongly mineralized with 2-3% disseminated chalcopyrite plus large blebs with clusters of biotite. Minor bornite in some chalcopyrite blebs, and rimming some grey syenite patches.	C 117925	195.07	198.12	3.05	100	10525	282	6.9	< 2	3
		198.12 - 201.17 Grey syenite as described above, but with more variability in grain size and biotite content. The amount of bornite and the ratio between bornite : chalcopyrite steadily increases downward through this interval. Bornite increases from 0.5% at the top of the interval to 1.5 - 2.0% near the bottom. Chalcopyrite remains in the range of about 1% through interval. Sulphides no longer part of large biotite aggregates. Continuing 2 - 3% disseminated magnetite.	C 117926	198.12	201.17	3.05	100	10331	345	8.3	5	7
		201.17 - 204.22 Grey syenite. Bornite all but dies out after pink k-feldspar alteration zone at top of interval. 1 - 3% disseminated chalcopyrite and 1% large blebs associated with large biotite aggregates. Lower part of run strongly mineralized with disseminated large blebs of chalcopyrite. A large patch of mafic-rich (chlorite-biotite) syenite carries small blebs of chalcopyrite. A large low angle fracture (0-5° to core axis) cuts the core and has a hematite coating.	C 117927	201.17	204.22	3.05	100	11500	215	7.2	5	6
		204.22 - 206.08 Grey syenite, becoming darker and more mafic with depth. Strongly mineralized with fine disseminated chalcopyrite as blebs interstitial to feldspar. Many parts of run are biotite-rich, becoming melanocratic syenite. Chlorite-biotite patches are sulphide-rich, often containing large blebs of chalcopyrite. Sections of coarse-grained k-feldspar are poorly mineralized.	C 117928	204.22	207.00	2.78	100	12166	90	8.5	2	4

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		206.08 - 207.00 Mafic rich syenite. Most of interval consists of large pieces of biotite-chlorite. Sericite altered pyroxenite. Orangish-red k-feldspar patches and cross-cutting bands at 70-80° to core axis indicated k-feldspar alteration. Many of the altered pyroxenite patches are heavily mineralized with chalcopyrite and minor pyrite.											
		Note: From 207.13 to the end of the hole at 213.36 there are several bands of biotite pyroxenite separated by mafic-rich syenites which in turn also include short sevtions of biotite pyroxenite.											
207.00	207.13	BIOTITE PYROXENITE - showing pervasive chlorite alteration. **207.00 - 207.13** No sulphides seen.	C 117929	207.00	210.31	3.31	100	412	4	< .3	7	11
207.13	208.21	MAFIC-RICH SYENITE - varying to potassium feldspar biotite pyroxenite - gradational unit showing wide range of composition. **207.13 - 208.21** No sulphides seen. Pervasive chlorite alteration.											
208.21	208.61	BIOTITE PYROXENITE - pervasive and intense chlorite alteration as above. **208.21 - 208.61** No sulphides seen.											
208.61	209.65	MAFIC-RICH SYENITE - with coarser grained pinkish-orange k-feldspar sections and many patches of intensely chlorite altered pyroxenite. **208.61 - 209.65** No sulphides seen.											
209.65	211.24	MESOCRATIC SYENITE - grey syenite with chlorite-epidote altered pieces of pyroxenite and cut by coarse-grained pink k-feldspar sections. **209.65 - 210.31** No sulphides seen. **210.31 - 211.24** No sulphides seen.	C 117930	210.31	213.36	3.05	100	185	< 2	< .3	6	2
211.24	212.06	BIOTITE PYROXENITE - as previously described. Cut by and includes several short sections of mafic rich syenite and coarse pink k-feldspar rich syenite. **211.24 - 212.06** As described above, no sulphides seen.											
212.06	213.36	MAFIC-RICH SYENITE - Showing a wide range of composition and grain size. Coarse pink k-feldspar contains patches of finer-grained biotite pyroxenite. Contacts between the above two are often epidote-rich. **217.06 - 213.36** No sulphides seen.											
213.36		END OF HOLE.											

Property: Lorraine	**Total Length:** 252.98		DIP TESTS		**Start Date:** September 25, 2001		
Grid Cord:	**Core Size:** BQTW	Footage (m)	Dip Measured	Dip Corrected	**Completion:** September 27, 2001		
Elevation: 1659 m	**Azimuth:** 40.2°	252	-57 °	-49°	**Logged By:** Jay W. Page		
Section:	**Inclination:** -50°				**Date logged:** Oct 2-6, 2001		

NOTES: Lower main Area, PAD: LM-4, GPS Location (corrected): UTM 347325.7 E; 6200714.1 N (NAD 83)

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
0	2.13	CASING (7 feet)										
2.13	33.64	MESOCRATIC SYENITE - pink syenite medium-grained and idiomorphic. Run consists of mostly broken pieces and gravel. Broken surfaces and fractures are all heavily stained by limonite.										
		2.13 - 5.18 Pink syenite as described above, no sulphides seen.	C 117931	2.13	5.18	3.05	65	336	9	< .3	< 2	3
		5.18 - 8.23 Pink syenite as described above. Minor blebs of disseminated chalcopyrite and pyrite. Core very broken and limonitic.	C 117932	5.18	8.23	3.05	90	979	50	0.4	< 2	< 2
		8.23 - 11.28 Pink syenite as above. Traces of pyrite. Core is broken and fractures are coated with limonite and hematite.	C 117933	8.23	11.28	3.05	96	401	13	< .3	< 2	2
		11.28 - 14.33 Pink syenite as above. Much of core is very broken and coated with limonite and hematite. Minor disseminated pyrite and chalcopyrite.	C 117934	11.28	14.33	3.05	90	524	24	0.4	< 2	4
		14.33 - 17.37 Broken chips and gravel of pink syenite. Very limonitic.	C 117935	14.33	17.37	3.04	80	380	16	< .3	< 2	5
		17.37 - 20.42 Very broken and limonitic core. Syenite appears to be more mafic-rich than above.	C 117936	17.37	20.42	3.05	90	145	14	< .3	< 2	4
		20.42 - 23.47 Broken, limonitic core as above. Very little texture recognizable within the pieces of syenite. No sulphides seen.	C 117937	20.42	23.47	3.05	92	328	14	< .3	< 2	3
		23.47 - 26.52 Beginning of more competent core, although still broken. Medium-grained idiomorphic pink syenite with some dark grey amorphous sections, made up of grey k-feldspar, biotite, trace pyrite. Several mafic rich sections. Biotite and chlorite cut the core at 45° to core axis. Reddish-orange k-feldspar alteration forms a variety of patches. Weakly magnetic.	C 117938	23.47	26.52	3.05	100	356	9	0.4	4	3
		26.52 - 27.10 Limonitic stained pink syenite. Cut by low angle 1 cm carbonate vein at 0-5° to core axis. Small amount of breccia fragments. Minor siderite alteration. No sulphides.	C 117939	26.52	29.57	3.05	90	723	27	0.3	5	5
		27.10 - 29.19 Melanocratic Mafic-Rich Syenite. Dark grey sections are very amorphous / featureless reddish-orange k-feldspar forms alteration envelopes 1 cm wide around 1 mm carbonate veinlets at generally low angle orientations. K-feldspars alteration carries minor cubic pyrite, 1 bleb of chalcopyrite, traces elsewhere. Minor disseminated pyrite in dark grey sections. From approximately 28.20 and below, interval is broken and sheared. Slickensides rake at 35°, coated with chlorite, hematite and carbonate.										
		29.19 - 29.57 Broken and limonitic gravel.										
		29.57 - 31.84 Interval of largely pink syenite, much of which is broken and limonite stained. Minor specks of pyrite visible, trace chalcopyrite.	C 117940	29.57	31.84	2.27	100	506	124	0.5	2	15

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		31.84 - 33.64 Broken, sheared and limonite stained interval of mafic rich syenite. Sheared section is chlorite and carbonate rich. Slickensides rake at 0°, extend from 31.84 to 32.32 weak k-feldspar alteration envelopes cut core at 30-35° to core axis carry traces of pyrite and chalcopyrite. Lower part of interval is greyish tan coloured. Syenite carrying minor pyrite.	C 117941	31.84	33.64	1.80	100	651	38	0.3	3	7
33.64	34.88	MELANOCRATIC SYENITE - MAFIC-RICH SYENITE - 30-50% fine-grained biotite (massive migmatite), locally may go as high as 65%. Sulphide rich with dominantly fine disseminated pyrite to 4%, less chalcopyrite, about 1-2% but difficult to identify because of tiny pin-point size. Carbonate-rich, several percent, also carbonate stringers with some fracture controlled blebs of pyrite and chalcopyrite. Weak to non-magnetic. Unit is overall very fine grained but towards bottom of interval there are some coarser-grained k-feldspar. **33.64 - 34.88** Fine-grained sulphide mineralization as described above.	C 117942	33.64	34.88	1.24	100	9657	242	4.9	6	11
34.88	37.07	POTASSIC-FELDSPAR BIOTITE PYROXENITE - grades from pinkish-red k-feldspar rich at top to biotite-pyroxenite(chlorite) rich at bottom. Intense and pervasive chlorite alteration of pyroxene resulting in complete destruction of textures. Coarse-grained in contrast to fine-grained unit above, [contact] is abrupt. Fractures at 45 and 70° to core axis have chlorite-hematite coatings. **34.88 - 37.07** Pyroxenite as described above. Pinkish-brown k-feldspar varies from 40-60% at top of interval to 5-10% (plus 10-20% grey feldspar) at bottom of interval. Biotite 15-20% at top 25-35% at bottom. No sulphides seen. Moderately magnetic.	C 117943	34.88	37.07	2.19	100	31	3	< .3	6	6
37.07	39.60	MESOCRATIC SYENITE - pink and grey syenite with many mafic-rich sections. **37.07 - 37.89** Pink, coarse-grained mafic-rich syenite. Contains many small patches of chlorite-sericite altered pyroxenite. Cut by thin low angle carbonate veinlets, entire interval is carbonate rich. Trace pyrite. **37.89 - 39.40** Grey syenite with irregular and indistinct pink patches, some of which appear to be weakly developed alteration (k-feldspar) envelopes on strongly oriented fractures (70-90° to core axis). Interval ends in a broken sheared section between 39.40 - 49.60.	C 117944	37.07	37.89	0.82	100	39	3	< .3	2	4
			C 117945	37.89	41.91	4.02	95	772	33	< .3	3	4
39.60	43.48	MELANOCRATIC SYENITE - mafic rich grey syenite showing considerable variation between fine-grained biotite-rich syenite and coarse-grained pink and grey syenite continuing patches of chlorite-altered biotite pyroxenite. **39.60 - 41.91** Biotite Syenite - Very fine grained biotite to 30-40% and										

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		minor / 1% of sulphide, mostly pyrite. Interval includes few random flakes of coarse-grained biotite.										
		41.91 - 43.48 Mafic-rich, medium to coarse grained syenite. Pinkish-grey coloured, but includes many patches of chlorite altered biotite pyroxenite. Chlorite alteration is very pervasive and intense, all traces of pyroxenite are gone. Mafic patches contain irregular blebs of pyrite and chalcopyite. Interval cut by several low angle (0-5° to core axis) fractures, filled with 1 mm of carbonate, chlorite coatings on fracture surfaces.	C 117946	41.91	43.48	1.57	100	615	19	< .3	6	8
43.48	44.47	BIOTITE PYROXENITE - intensely chlorite altered. Shearing through most of interval on low angle fractures (0-10° to core axis) has left earthy-friable coatings of chlorite and carbonate on most fracture surfaces. Interval includes a few small patches of coarse-grained pink syenite.										
		43.48 - 44.47 Minor interstitial pyrite and chalcopyrite	C 117947	43.48	44.47	0.99	100	491	12	< .3	3	5
44.47	48.86	MAFIC-RICH SYENITE - interval includes a wide range of grain-sizes and mafic content. Includes several sections of mesocratic pink syenite, fine-grained biotite-rich syenite and sheared and broken up chlorite and biotite altered rock (after pyroxenite).										
		44.47 - 45.95 Interval includes several alternating sections of fine-grained biotite syenite and coarser grained buff-pink syenite. The biotite syenite carries several percent fine blebs and cubes of pyrite, possible minor chalcopyrite. A few cross cutting carbonate veinlets, 1 mm wide, cut the core at 45° to core axis.	C 117948	44.47	45.95	1.48	100	2249	100	1.7	4	10
		45.95 - 48.86 As above but with many sections of massive, earthy chlorite that has been sheared and broken. 10-15% random biotite suggests it is altered pyroxenite. Some pieces still recognizable as biotite pyroxenite carry 1-2% pyrite (50%) and chalcopyrite (50%). Intense and complete alteration of mafics (except biotite) to green chlorite has resulted in destruction of all rock textures. Lower metre of interval is more syenitic and is mostly biotite-pyrite syenite, minor chalcopyrite	C 117949	45.95	48.86	2.91	100	2615	102	1.6	2	11
48.86	55.56	MESOCRATIC SYENITE - pink syenite with several patches and sections of biotite syenite. Pink syenite is moderately magnetic, grey sections are strongly magnetic.										
		48.86 - 50.90 Pinkish-grey syenite as above with thin (1-2 mm) cross-cutting orange k-feldspar alteration envelopes along hairline fractures, oriented at 80-85°. Thin lines of biotite define a weak foliation at 45° to core axis. 1% disseminated chalcopyrite, trace bornite.	C 117950	48.86	50.90	2.04	100	1044	42	0.4	< 2	< 2
		50.90 - 53.95 Pinkish-grey syenite with many patches of very fine-grained biotite and chlorite (after pyroxene?). These dark grey patches are magnetite rich and carry blebs of chalcopyrite and traces of bornite. Large	C 117951	50.90	53.95	3.05	100	1289	89	1.2	< 2	4

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		relic feldspars partly visible in a few spots. Up to 2-3% pyrite in a few spots. **53.95 - 55.10** Mafic rich syenite with mafic patches of fine-grained biotite-rich rock and coarse grained chlorite altered biotite pyroxenite. **55.10 - 55.56** Pink syenite with cross-cutting orangish pink k-feldspar alteration envelopes cross-cutting at 90° to core axis. Minor pyrite blebs noted.	C 117952	53.95	55.56	1.61	100	1155	41	0.6	< 2	7
55.56	56.33	BIOTITE PYROXENITE - biotite-rich to 40%, pervasive weak chlorite alteration of pyroxenes. Cross cutting k-feldspar veinlets to 6 mm are oriented at 45° to core axis. Also 2 mm at 80° to core axis. **55.56 - 56.33** No sulphides seen.	C 117953	55.56	56.33	0.77	100	175	6	< .3	6	13
56.33	59.90	MAFIC-RICH SYENITE - pinkish-grey syenite with irregular biotite lamellae and patches of biotite pyroxenite. Indeterminate dark patches consist of chlorite and sericite. **56.33 - 59.90** Minor blebs of chalcopyrite interstitial to k-feldspar in pink syenite.	C 117954	56.33	59.90	3.57	100	966	24	0.5	< 2	5
59.90	62.43	BIOTITE PYROXENITE - biotite-rich pyroxenite with many patches and alteration envelopes of coarse-grained brownish k-feldspar. Minor patchy epidote alteration is fracture controlled, found in low angle fractures (0-20° to core axis). K-feldspar alteration envelopes / veinlets oriented at 60° to core axis. Pervasive weak to moderate chlorite alteration of pyroxene. **59.90 - 62.43** Pyroxene is mineralized with blebs of bornite and chalcopyrite.	C 117955	59.90	62.43	2.53	100	2511	132	1.4	7	21
62.43	63.52	MESOCRATIC SYENITE - light brownish grey syenite, very coarse-grained, 5% large random flakes of biotite. Non-magnetic. **62.43 - 63.52** No sulphides seen.	C 117956	62.43	63.52	1.09	100	268	32	< .3	< 2	3
63.52	65.26	BIOTITE PYROXENITE - intensely chlorite and sericite altered biotite pyroxenite and / or biotite syenite in which the end result is a dark green, fine-grained rock in which only biotite is recognizable, all other textures having been destroyed. Faulting, shearing and brecciation are common in first metre of run. Sericitic altered feldspars are pyrite-rich (often found as cubes). Magnetic. **63.52 - 65.26** Minor disseminated pyrite and chalcopyrite.	C 117957	63.52	65.26	1.74	100	847	23	< .3	4	6
65.26	66.83	MELANOCRATIC SYENITE - biotite syenite with 20-25% fine to medium grained biotite. Irregular white quartz ± feldspar veinlets have associated										

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		minor carbonate and sericitic alteration in weakly developed envelope. Low angle fractures (0-10° to core axis) are coated with thin layers of carbonate. **65.26 - 66.83** Minor pyrite associated with sericitic altered feldspar.	C 117958	65.26	66.83	1.57	100	116	2	< .3	2	2
66.83	68.44	BIOTITE PYROXENITE - as described above between 63.52 and 65.26. Intense chlorite and sericite alteration has obliterated all textures, leaving only 10-15% biotite unaltered, and some large (to 1 cm) k-feldspar patches. **66.83 - 66.97** Initial section of interval is intensely altered biotite syenite resulting in a rock composed of biotite 20-25%, orange k-feldspar 20-25% (cross cutting alteration envelopes and patches), sericite (after feldspar) 35-45% and 5-10% fine cubic pyrite. **66.97 - 68.44** Biotite pyroxenite as described above, with patches of coarse, tan coloured k-feldspar. Cut by tiny quartz veinlets to 1 mm thick and at 0-30° to core axis. Magnetic-rich minor disseminated pyrite, trace chalcopyrite.	C 117959	66.83	68.44	1.61	100	730	27	< .3	3	10
68.44	71.95	MAFIC-RICH SYENITE - initial part is mesocratic syenite to 69.19, then rock is sheared and broken, and intensely sericitic altered, with fine disseminated pyrite. **68.44 - 69.19** Pinkish grey mesocratic syenite with patches of coarse-grained tan k-feldspar and pyrite rich spots. **69.19 - 71.95** Dark green featureless rock is disseminated pyrite. Section is the result of intense chlorite and sericite alteration of what may have been originally a biotite-rich syenite. Cut by several orangish brown k-feldspar alteration zones / veinlets to 3 cm at 45° to core axis. Much of run has been ground to gravel.	C 117960	68.44	71.95	3.51	85	658	63	0.8	< 2	3
71.95	90.80	BIOTITE PYROXENITE - intense chlorite and sericite altered pyroxenite in which the original textures have been destroyed. Amount of alteration decreases with depth. Only biotite is unaffected by this alteration. This interval includes several patches of coarse-grained orange k-feldspar. **71.95 - 75.29** Biotite pyroxenite as described above, intense chlorite and sericite ± clay alteration. Several small patches of disseminated pyrite and chalcopyrite **75.29 - 78.33** As above, weakly mineralized except in a biotite rich spot in a syenitic section, contains 5% sulphide as blebs of pyrite and chalcopyrite over 1-2 cm. **78.33 - 81.38** As described above. Coarse pink k-feldspar rich veinlets to 2 cm cut core at steep angles (70-90° to core axis). Intense chlorite alteration patchy epidote alteration. **81.38 - 84.43** As above, intense chlorite-sericite alteration. Minor coarse pink k-feldspar. Numerous fracture faces with waxy chlorite coatings and slickensides at 45 to 80°.	C 117961	71.95	75.29	3.34	98	2169	90	1.8	4	14
			C 117962	75.29	78.33	3.04	100	1386	53	1.0	6	17
			C 117963	78.33	81.38	3.05	100	28	2	< .3	10	16
			C 117964	81.38	84.43	3.05	100	< 1	< 2	< .3	6	6

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		84.43 - 87.48 As above, but with more coarse k-feldspar sections. Broken and sheared fracture faces are coated with waxy chlorite-hematite deposits. Slickensides rake at 80-90°.	C 117965	84.43	87.48	3.05	100	78	6	< .3	6	9
		87.48 - 90.80 As above. Containing intense chlorite alteration. Frequent fracture faces with chlorite-carbonate-hematite coatings. Slickensides rake at 80-90°.	C 117966	87.48	90.80	3.32	100	292	11	< .3	3	< 2
90.80	93.80	MESOCRATIC SYENITE - broken and sheared pink syenite with mafic patches. Extensive carbonate and clay coatings on broken surfaces. Slickensides at 70°. Fault zone.										
		90.80 - 91.56 No sulphides seen.	C 117967	90.80	91.56	0.76	90	553	25	0.5	17	41
		91.56 - 91.86 Light grey syenite with irregular dark-grey, fine grained mafic breccia fragments. Syenite almost entirely composed of very coarse-grained k-feldspar.										
		91.86 - 93.80 Sheared and broken mafic-rich and pink syenite. Most of interval is sheared (with 60° to 90° slickensides) chlorite-carbonate and hematite. Patchy sericite-clay alteration. Minor pyrite.	C 117968	91.56	93.80	2.24	100	351	14	< .3	< 2	15
93.80	95.10	LEUCOCRATIC SYENITE - white k-feldspar dyke, coarse-grained and idiomorphic. Includes some small, angular fragments of grey, fine-grained mafic-rich rock.										
		93.80 - 95.10 No sulphides seen.	C 117969	93.80	95.10	1.30	100	17	2	< .3	< 2	< 2
95.10	98.95	POTASSIUM-FELDSPAR BIOTITE PYROXENITE - showing intense chlorite-sericite alteration which has resulted in a very dark grey rock with no original texture visible except for random large (to 6 mm) biotite flakes. Extremely large crystal faces (k-feldspar?) to 4 cm are revealed on split surfaces of core, which include and are interstitial to biotite. Part of interval is sheared and broken. Very magnetic. Large crystals suggest some degree of recrystallization. Interval includes patches of coarse k-feldspar (reddish-brown) which are unaltered and are found toward bottom of interval, and is common in next run.										
		95.10 - 98.95 No sulphides seen.	C 117970	95.10	98.95	3.85	95	62	4	<.3	7	3
98.95	102.72	MAFIC-RICH SYENITE - a transitional unit between the altered mafic above and the mesocratic syenite below. Tan coloured syenite is cut by several k-feldspar (orangish-red colored) alteration patches or envelopes surrounding 1 mm, 80° to core axis. Carbonate veinlets. Pyrite accompanies potassic alteration. Carbonate commonly coats many low-angle fractures (0-10° to core axis). Also earthy chlorite, slickensides and broken core indicate faulting / shearing. Many indeterminate grey patches similar to above unit.										
		98.95 - 102.72 Minor disseminated pyrite.	C 117971	98.95	102.72	3.77	90	185	29	< .3	5	5

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
102.72	117.86	MESOCRATIC SYENITE - pinkish grey syenite with reddish-brown k-feldspar alteration common near top of interval and patchy epidote alteration lower down. Epidote is commonly associated with pinkish orange k-feldspar alteration centres. Chlorite alteration of mafics common.										
		102.72 - 105.77 Dark patches are mafic-rich. Low angle fractures (0-10° to core axis) are coated with carbonate. No sulphides seen. Continuing magnetic.	C 117972	102.72	105.77	3.05	100	213	24	< .3	2	4
		105.71 - 108.81 As above, extensive coatings of carbonate and hematite. Slickensides at 75°. Weak epidote alteration common.	C 117973	105.77	108.81	3.04	100	336	29	< .3	< 2	4
		108.81 - 111.86 As above, carbonate coatings on low angle fractures common, also beginning on 45° to core axis fractures. Epidote and orange k-feldspar alteration cut the core at 90° to core axis in several spots. Minor disseminated pyrite and chalcopyrite.	C 117974	108.81	111.86	3.05	100	594	51	0.7	< 2	4
		111.86 - 114.91 As above. Potassic and epidote alteration commonly form streaks and bands at 90° to core axis. Biotite wisps and mafic centres help define a weak foliation perpendicular to core axis. Dark grey areas carry minor disseminated pyrite. Small patches of pyroxenite show extensive chlorite-epidote alteration. Carbonate coatings are mainly on 30-45° to core axis fracture faces. Irregular pink k-feldspar alteration follows veinlets with sericitic altered feldspar cores. Epidote is often associated with the potassic alteration which usually forms irregular patches. Biotite forms a weak foliation at 45° to core axis near bottom of interval.	C 117975	111.86	114.91	3.05	100	491	32	0.4	< 2	6
		114.91 - 117.86 As above description.	C 117976	114.91	117.86	2.95	100	1057	84	1.0	2	5
117.86	142.02	BIOTITE PYROXENITE - showing intensive chlorite alteration and pink k-feldspar rich sections near the top. Highly magnetic.										
		117.86 - 121.01 Epidote alteration pervasive but only moderate in upper section. Both chlorite and epidote alteration weakens with depth. No sulphides seen.	C 117977	117.86	121.01	3.15	100	44	5	< .3	4	5
		121.01 - 124.05 As above. Weak pervasive chlorite alteration. Cut by many hairline veinlets (< 1 mm) of carbonate which are generally at 45° or 20° to core axis. Carbonate coatings are common on many fracture faces. Very magnetic, no sulphides.	C 117978	121.01	124.05	3.04	100	10	23	< .3	2	2
		124.05 - 127.10 As above, coarser grained than above run. Weak chlorite ± epidote alteration. K-feldspar sections cut core at steep angles (65-90° to core axis). More biotite-rich than above. Foliation is weakly defined by biotite at 80° to core axis.	C 117979	124.05	127.10	3.05	100	3	< 2	< .3	3	2
		127.10 - 130.15 As above. Continuing weak chlorite alteration, and strong magnetism. Biotite-rich.	C 117980	127.10	130.15	3.05	100	1	< 2	< .3	6	3
		130.15 - 130.75 As above.										
		130.75 - 132.57 Shear in biotite pyroxenite. Very broken; most pieces show hematite coatings and slickensidesat 70°. No sulphides seen.	C 117981	130.15	132.57	2.42	100	713	19	0.5	6	8

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		132.57 - 133.68 As above but with fault breccia fragments cemented with carbonate. Fragments are intensely chlorite altered (+ sericite), sheared and lens-like in shape. Carbonate is fractured and re-cemented indicating more than one faulting event. Fine-grained pyrite associated with sericite-rich section (15 cm) at bottom of interval.	C 117982	132.57	133.68	1.11	100	1206	93	1.2	4	9
		133.68 - 136.76 Biotite pyroxenite as described above. Biotite and magnetite-rich. Pervasive weak to moderate chlorite alteration. K-feldspar bands, 1 cm wide, cut core at 85° to core axis.	C 117983	133.68	136.76	3.08	100	16	3	< .3	3	< 2
		136.76 - 137.67 A short interval of fine-grained, biotite-rich rock. Possibly an alteration product of pyroxenite. Contact above is abrupt, a 20° fracture. Very similar to massive migmatite (syenite). Very pyrite-rich, fine grained, locally reaches 5%, includes minor amounts of chalcopyrite, which appear to be enclosing pyroxene grains (net-texture). Foliation defined by biotite is well developed at 90° to core axis. Weakly magnetic. Slickensides on sheared contact between rake at 30°.	C 117984	136.76	137.67	0.91	100	3863	37	1.0	3	17
		137.67 - 139.29 Biotite pyroxenite as described several runs above. Minor blebs of chalcopyrite have net-textures, trace of bornite.	C 117985	137.67	139.29	1.62	100	397	18	0.5	5	3
		139.29 - 142.02 As described above. Chalcopyrite as disseminated blebs, some of which show net-textures reaches about 1%. Trace bornite mineralization tends to align parallel to foliation at 90° to core axis (as defined by biotite).	C 117986	139.29	142.02	2.73	100	825	31	0.5	5	3
142.02	152.20	MIGMATITIC SYENITE - grey syenite with fine-grained biotite migmatite defining a foliation at 80-90° to core axis. Coarser pink k-feldspar forms streaks, bands and sections which are most commonly aligned with foliation, or at 45° to core axis when the k-feldspar forms an alteration envelope along a fracture. Small epidote patches are sometimes associated with pink / orange k-feldspar alteration.										
		142.02 - 142.85 Initial contact zone is from 142.02 to 142.85 and consists of 10 cm of very pyrite- and chalcopyrite-rich syenite then numerous bands of orange k-feldspar and carbonate alteration + minor clay alteration, plus sheared bits of mafic / chlorite-rich rock (pyroxenite from about). A 9 cm wide calcite vein cuts core at 60° to core axis.	C 117987	142.02	145.39	3.37	100	2438	925	11.9	2	108
		142.85 - 145.39 Migmatitic syenite with migmatite consisting of fine-grained biotite, grey orthoclase and magmatite. Run includes some cross cutting pink k-feldspar bands.										
		145.39 - 148.44 Syenite migmatite as described above. Much of run is darker, almost massive migmatite in several sections, cut only by thin pinkish-orange k-feldspar bands with associated minor pyrite. Toward bottom of run core is more broken with slickensides at 60° on chlorite-carbonate-hematite coated fracture surfaces. Also many patches of orange k-feldspar alteration. Minor disseminated pyrite and chalcopyrite.	C 117988	145.39	148.44	3.05	100	1824	51	1.0	3	6

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		148.44 - 152.20 Syenite migmatite as described above. This interval includes a large amount of irregular and blocky orange k-feldspar alteration along with some quartz-k-feldspar-pyrite veinlets at 45° to core axis. Minor disseminated blebs of pyrite and chalcopyrite associated with k-feldspar rich sections. A few mafic rich sections show chlorite ± sericite alteration.	C 117989	148.44	152.20	3.76	100	1337	68	1.4	< 2	2
152.20	155.88	MESOCRATIC SYENITE - coarse-grained pink syenite showing extensive and intense k-feldspar and chlorite-epidote alteration along with patchy sericite ± minor clay alteration. Orangish k-feldspar crystals to 3 cm. Mafic patches altered to chlorite-epidote plus biotite. **152.20 - 153.70** As above. **153.70 - 155.88** As above.	C 117990	152.20	153.70	1.50	100	535	78	0.4	< 2	6
			C 117991	153.70	155.88	2.18	100	150	8	< .3	< 2	2
155.88	159.24	BIOTITE PYROXENITE - biotite-rich pyroxenite in which there is pervasive and intense chlorite alteration of pyroxene. Intense epidote alteration of feldspar in upper part of interval. Pinkish-orange k-feldspar forms a section in centre of interval for 20 cm. **155.88 - 159.24** As above.	C 117992	155.88	159.24	3.36	100	708	20	0.4	6	16
159.24	160.56	MASSIVE MIGMATITE - biotite-rich syenite in which fine-grained biotite comprises 50-75% of rock, balance is grey feldspar. Weakly magnetic. Thin carbonate veinlets cut the core at 45° to core axis. Contacts sheared at 45° to core axis. **159.24 - 160.56** As above, disseminated blebs of 1% pyrite and 0.5% chalcopyrite tend to follow foliation plane which is weakly defined by biotite at 80-90° to core axis.	C 117993	159.24	160.56	1.32	100	1254	18	0.8	< 2	13
160.56	176.59	BIOTITE PYROXENITE - chlorite altered biotite pyroxenite with short intervals of mafic-rich syenite and biotite-rich syenite (migmatite). Disseminated and net-textured chalcopyrite and minor bornite found through part of interval. **160.56 - 161.48** Mafic-rich syenite mafics are patches of chlorite altered and sheared pyroxenite. Sheared contacts. **161.48 - 162.00** Massive migmatite with 80° to core axis foliation. Calcite veinlets at low angles (0-25° to core axis) carry minor blebs of chalcopyrite and bornite. Minor disseminated chalcopyrite . **162.00 - 163.68** Chlorite-altered biotite pyroxenite, numerous sheared fracture surfaces with slickensides at 80-85° on low angle fracture surfaces (0-15° to core axis). Fine disseminated blebs of chalcopyrite and bornite form vague bands parallel to foliation which is weakly defined by biotite at 80-85° to core axis.	C 117994	160.56	163.68	3.12	100	1704	101	1.6	5	27

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		163.68 - 166.72 Biotite pyroxenite as described above. Pervasive chlorite alteration. One vague band of chalcopyrite and bornite blebs follows foliation, 1 cm wide. Last metre of interval includes 3-5% disseminated and net-textured sulphide of which approximately 50% is chalcopyrite, 50% pyrite, minor bornite.	C 117995	163.68	166.72	3.04	100	3360	170	3.3	13	43
		166.72 - 169.77 As above, includes several small sections of disseminated and net-textured chalcopyrite and bornite plus minor pyrite as described above.	C 117996	166.72	169.77	3.05	100	4097	326	4.4	10	19
		169.77 - 172.82 As above, interval includes extensive shearing which has reduced the core to rubble in places. Section of competent core has more biotite than above and about 1-2% disseminated bornite, minor disseminated chalcopyrite. Shearing is on 0° to 30° to core axis fractures.	C 117997	169.77	172.82	3.05	96	3939	239	3.2	17	24
		172.82 - 175.87 Biotite pyroxenite as described above. Very strongly mineralized with net-textured sulphides for most of interval except where sheared on low angle fractures (about 10° to core axis). Sulphide, most of which is chalcopyrite with minor pyrite / pyrrhotite locally reaches 10 - 15 %, average closer to 4 - 5 %. Variable chlorite and biotite alteration. The sulphide-rich sections also appear biotite-rich. Very magnetic.	C 117998	172.82	176.59	3.77	99	13216	323	8.9	11	30
		175.87 - 176.59 As above, continuing heavily mineralized in a biotite-rich pyroxenite, locally to 20 %, average about 4 %. Sulphides mostly chalcopyrite, lesser pyrite / pyrrhotite.										
176.59	197.39	MAFIC RICH SYENITE - including intervals of syenite migmatite and numerous patches / sections of pinkish-orange k-feldspar. Mafic patches are intensely chlorite altered.										
		176.59 - 177.06 Syenite migmatite with fine-grained biotite defining a weak foliation at about 80° to core axis. Weak pyrite mineralization. Magnetic.	C 117999	176.59	178.91	2.32	100	3869	217	2.9	5	9
		177.06 - 178.91 Pink and grey syenite with mafic patches showing intense chlorite-biotite alteration and strongly mineralized with blebs of chalcopyrite. Low angle (0-10° to core axis) fractures and 45° fractures (to core axis) are all coated with hematite.										
		178.91 - 181.97 As above, pink syenite with numerous small mafic patches, which show intense chlorite alteration and are biotite-rich. Many are mineralized with large blebs of and disseminations of chalcopyrite. Low angle and 45° fractures to core axis are coated with hematite.	C 118000	178.91	181.97	3.06	100	5388	307	2.8	2	8
		181.97 - 185.01 As above, pink syenite, which may be an alteration feature itself, with numerous pieces / patches to 10 cm of mafic material. Amount of mafic patches has increased since above run, all are intensely chlorite altered ± sericites, biotite-rich and many contain blebs of chalcopyrite. Epidote appears more related to low angle fractures than to mafics. Low angle fractures are exposed along the full length of the interval, all are coated with hematite. Disseminated chalcopyrite in the pink syenite.	E 143107	181.97	185.01	3.04	100	4866	174	2.2	2	6

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION
		185.01 - 188.06 Pink and grey syenite with fine-grained biotite-rich patches (of migmatite) and chlorite altered patches of mafics (after pyroxene). Weak foliation as defined by streaks of mafics and biotite. Chlorite-biotite mafic patches continuing to be magnetite and chalcopyrite-rich. Fine-grained biotite migmatite section strongly mineralized with pyrite and minor chalcopyrite. Irregular pink k-feldspar alteration, some with epidote centres.
		188.06 - 191.11 Pink syenite as above, with chlorite rich mafic patches and biotite-rich patches of migmatite, the latter becoming dominant toward bottom of run. Chlorite-mafic patches now carry little or no sulphide mineralization. Migmatite carries much more chalcopyrite and lesser pyrite. Pink syenite carries lots of fine disseminated and blebs of chalcopyrite. Also some fracture controlled blebs at 20-25° to core axis with feldspar veinlets. Trace bornite in syenite.
		191.11 - 194.16 As above, but more weakly mineralized, with low angle (0-10° to core axis) hematite coated fracture faces exposed along most of length of run. Mafic patches show extensive chlorite-sericite alteration. Sections of biotite-rich syenite (migmatite) are mostly mineralized with pyrite.
		194.16 - 197.39 Pink syenite as above. First 2 metres are almost continuously split by low angle (0-5° to core axis) fractures coated with thick (to 1 mm) hematite and chlorite, with minor carbonate. Weakly developed slickensides at 85-90°. From 195.90 to end of interval core is composed of coarse-grained pink k-feldspar, fine-grained biotite migmatite bands at 60° to core axis chlorite altered mafic patches and large irregular patches of epidote ± sericite (replacing feldspars in patches of pyroxenite).
197.39	199.52	BIOTITE PYROXENITE - a chlorite-altered pyroxenite with a highly variable biotite content, (10-60%) and cut by numerous patches and bands of reddish-pink k-feldspar veinlets / alteration. Patchy epidote ± sericite alteration of feldspars in pyroxenite. **197.39 - 199.52** No sulphides seen.
199.52	214.59	MESOCRATIC SYENITE - pink syenite with mafic patches and short intervals of biotite pyroxenite and biotite migmatite patches and cross-cutting bands of reddish orange k-feldspar alteration are common. **199.52 - 203.30** As described above. Intense and pervasive chlorite and weaker epidote alteration of mafic patches. Disseminated blebs of chalcopyrite near (10 cm) of abrupt 45° to core axis fracture contact with biotite pyroxenite above. **203.30 - 206.35** As described above but with a section of potassium-feldspar biotite pyroxenite from 203.40 - 203.98 (biotite rich) and numerous irregular patches of reddish-orange k-feldspar accompanied with weak

SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
E 143108	185.01	188.06	3.05	99	1577	55	0.8	< 2	4
E 143109	188.06	191.11	3.05	99	4514	267	2.5	4	7
E 143110	191.11	194.16	3.05	99	4329	149	2.3	3	6
E 143111	194.16	197.39	3.23	100	1166	60	0.7	4	8
E 143112	197.39	199.52	2.13	100	153	4	< .3	7	8
E 143113	199.52	203.30	3.78	100	561	15	0.4	< 2	3
E 143114	203.30	206.35	3.05	100	662	21	< .3	3	8

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		epidote alteration. Bands of reddish-orange k-feldspar cut the core at 70-80° to core axis. Large patches of epidote are associated with this section of pyroxenite. Minor chalcopyrite blebs.										
		206.35 - 209.40 Greyish pink syenite as described above. Numerous cross-cutting reddish-orange, 2-4 mm wide, alteration envelopes carry minor pyrite and cut core at 30 to 70° to core axis.	E 143115	206.35	209.40	3.05	100	1069	25	0.4	8	8
		209.40 - 212.45 Pink syenite as described above. Many large patches of orangish k-feldspar alteration, minor epidote associated with some. Several small (1-6 mm thick) quartz veins cut core at 65° to core axis. Mafics mostly altered to biotite, patchy epidote and sericite alteration.	E 143116	209.40	212.45	3.05	100	294	53	0.4	< 2	2
		212.45 - 214.59 As above. Pink syenite with biotite-rich mafic patches showing intense chlorite alteration.	E 143117	212.45	214.59	2.14	100	395	12	0.3	< 2	2
214.59	217.10	BIOTITE PYROXENITE - biotite-rich chlorite altered pyroxenite with several syenitic sections. Sulphide-rich in first couple of metres.										
		214.59 - 217.10 Biotite pyroxenite as above description. Heavy chalcopyrite and minor pyrite mineralization from 214.59 to 215.09 with blebs and net-textured chalcopyrite to 6%, average about 4%, 1% pyrite / pyrrhotite.	E 143118	214.59	217.10	2.51	100	3891	53	1.9	8	18
		Balance of run is about 1/2% chalcopyrite, with most mineralization in a few patches of blebs. Initial part is grey k-feldspar-rich (about 40%), chlorite alteration is pervasive and intense. Most of interval is biotite-rich and these areas do not carry much mineralization										
217.10	219.58	MAFIC RICH SYENITE - includes several patches and short sections of biotite rich pyroxenite and syenite, with some parts verging on migmatite.										
		217.10 - 219.58 Small amount of chalcopyrite and bornite blebs associated with some patches of biotite pyroxenite. A few blebs of chalcopyrite are associated with 45° to core axis fractures. K-feldspar (orangish-red coloured) forms veinlet / alteration envelopes at 45° to core axis with associated pyrite - much of which is cubic.	E 143119	217.10	219.58	2.48	100	2596	50	1.2	4	16
219.58	221.68	BIOTITE PYROXENITE - very biotite rich with chlorite altered pyroxene. Net textured chalcopyrite association with patches of grey k-feldspar-rich biotite pyroxenite. Most of interval is very biotite-rich, up to 80% biotite. 20 cm broken chloritic shear in center of interval.										
		219.58 - 220.40 As above.	E 143120	219.58	220.40	0.82	98	873	30	0.8	5	10
		220.40 - 221.68 As above.	E 143121	220.40	221.68	1.28	100	456	10	< .3	7	10
221.68	222.32	MESOCRATIC SYENITE - pinkish grey syenite with 10-15% biotite and small patches of biotite-rich mafic rock (above pyroxenite?).										
		221.68 - 222.32 As described above. Disseminated blebs of chalcopyrite	E 143135	221.68	222.32	0.64	100	2878	49	1.9	4	18

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		to 1% plus traces of bornite, along with blebs of chalcopyrite and bornite in altered biotite pyroxenite patches, also minor pyrite.										
222.32	226.72	BIOTITE PYROXENITE - extremely biotite-rich pyroxenite. Shearing evident on low angle (0 - 5° to core axis) chlorite fracture surfaces. Several patches of net-textured sulphides with up to 5% sulphides over 20 cm. Non-magnetic. **222.32 - 224.64** As described above. Slickensides on sheared low angle fractures at 65-80° most of run very biotite-rich. **224.64 - 226.72** As described above includes several patches of net-textured chalcopyrite and minor pyrite / pyrrhotite. Pyroxene is largely altered to biotite, including in the net-textured parts.	E 143122	222.32	224.64	2.32	100	318	21	< .3	5	8
			E 143123	224.64	226.72	2.08	100	2641	31	1.5	3	2
226.72	231.73	BIOTITE MIGMATITE SYENITE - with most of the interval being massive migmatite. Occasional random flakes of larger biotite (to 3 mm). **226.72 - 229.50** As above, contains 1-2% fine disseminated pyrite. Trace chalcopyrite. **229.50 - 231.73** Massive fine-grained biotite migmatite as described above. Several cross-cutting k-feldspar veinlets at 45° to core axis.	E 143124	226.72	229.50	2.78	100	1032	8	< .3	< 2	2
			E 143125	229.50	231.73	2.23	100	1508	44	0.5	2	6
231.73	235.13	MESOCRATIC SYENITE - grey syenite with two - 30 cm long biotite-rich mafic sections. **231.73 - 232.79** Grey syenite with minor disseminated pyrite and minor fracture controlled chalcopyrite blebs oriented at 45° to core axis. **232.79 - 233.07** Mafic rich syenite with 50% biotite-rich pyroxenite patches with blebs of chalcopyrite and magnetite. Chlorite alteration of pyroxene. **233.07 - 234.28** Grey syenite as described above, but with more k-feldspar, sericite and epidote alteration. Minor disseminated blebs of pyrite and chalcopyrite. **234.28 - 235.13** Mafic rich syenite as above, several patches of coarse biotite and patches of chloritized pyroxenite. Coarse-biotite associated with 15 cm of coarse-grained reddish orange k-feldspar. Minor fracture controlled (30° to core axis) chalcopyrite.	E 143126	231.73	233.07	1.34	100	1058	100	0.8	3	11
			E 143127	233.07	235.13	2.06	100	819	26	0.7	4	7
235.13	236.55	BIOTITE PYROXENITE - biotite-rich and carrying disseminated blebs of chalcopyrite, some of which show net-textures. Hematite coated fracture face at 45° to core axis. Upper contact brecciated; epidote-calcite rich. **235.13 - 236.55** As above description, average chalcopyrite 2-4% minor pyrite.	E 143128	235.13	236.55	1.42	100	5333	157	3.4	17	28

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION
236.55	252.98	MESOCRATIC SYENITE - grey syenite with several mafic-rich sections (biotite pyroxenite) in the first two runs. Numerous patches and bands of orangish k-feldspar and epidote alteration.
		236.55 - 239.88 Grey syenite as described above. Interval is mafic rich to 238.52 with biotite-rich pyroxenite pieces, some of which carry net-texture pyrite / pyrrhotite and lesser chalcopyrite. Balance of interval is a grey pyroxene syenite with patchy k-feldspar, epidote and sericite alteration. Carbonate on fracture surface.
		239.88 - 242.93 Mafic rich to 241.60, includes patches of biotite-rich and magnetite-rich syenite and chlorite altered biotite pyroxenite. Mafic-rich section moderately well mineralized with pyrite, minor chalcopyrite. Below 241.60 grey syenite is melanocratic in sections due to high magnetite / biotite content. Vague patchy zones of k-feldspar and epidote alteration.
		242.93 - 245.97 Grey syenite with numerous patches of potassic k-feldspar and epidote alteration, some of which forms bands (alteration envelopes) of pink k-feldspar with an epidote core, (closest to fracture at 45 60° to core axis). Between 245.25 and 245.81 there are several patches of k feldspar (pinkish-orange), biotite and pyroxenite. All showing multiple alteration (chlorite, biotite, epidote) and carrying minor sulphides.
		245.97 - 249.02 Grey syenite as above, but with almost continuous pervasive, moderate pink k-feldspar, and chlorite alteration. Patchy weak epidote alteration, and strong sericite alteration envelopes to 1 cm wide with several 45 to 70° to core axis fractures. A mafic-rich section exists at 246.66 to 247.05 and consists of fine biotite migmatite with associated k-feldspar alteration at 45° to core axis, and several chlorite-altered pyroxenite patches. Many low angle fracture.
		249.02 - 251.30 As above, grey syenite showing k-feldspar, epidote and chlorite alteration. Interval broken by weakly chloritic and hematitic coated 0-10° to core axis fractures. No sulphides seen.
		251.30 - 252.98 As above, very broken, and displaying weak patchy potassic and epidote alteration.
252.98		END OF HOLE.

SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
E 143129	236.55	239.88	3.33	100	759	5	< .3	3	7
E 143130	239.88	242.93	3.05	100	578	11	< .3	4	7
E 143131	242.93	245.97	3.04	100	250	5	< .3	7	8
E 143132	245.97	249.02	3.05	100	204	< 2	< .3	< 2	4
E 143133	249.02	251.30	2.28	98	642	5	< .3	2	5
E 143134	251.30	252.98	1.68	100	150	< 2	< .3	< 2	5

Property: Lorraine	Total Length: 234.39	DIP TESTS		Start Date: September 28, 2001
Grid Cord:	Core Size: BQTW	Footage (m) / Dip Measured / Dip: 234 / -51° / -43°		Completion: October 1, 2001
Elevation: 1604 m	Azimuth: 49.2° (GPS Corrected)			Logged By: Jay W. Page
Section:	Inclination: -45°			Date logged: Oct 7-9, 2001

NOTES: Lower main Area, PAD: Ronnie's Luck, GPS Location (corrected): UTM 347306.5 E; 6200522.0 N (NAD 83)

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
0	8.84	CASING (29 Feet).										
8.84	25.65	MAFIC-RICH SYENITE - upper part of hole is very broken and limonitic.										
		8.84 - 11.89 Broken limonitic core, fragments show intense chlorite alteration, much of run subjected to weathering ± clay alteration.	A 201001	8.84	11.89	3.05	60	183	100	0.5	5	5
		11.89 - 14.94 As above, broken and limonitic core - lots of variation, carbonate fracture fillings and veinlets. Lower 1 1/2 metres of run is fine-grained biotite migmatite rich which is sericitic altered and contains minor pyrite.	A 201002	11.89	14.94	3.05	85	102	12	< .3	2	5
		14.94 - 17.50 Broken limonitic core showing intense chlorite alteration, plus sericite alteration of feldspars in biotite migmatite - rich sections. Broken fracture faces are very hematitic toward bottom of run.	A 201003	14.94	17.50	2.56	90	244	415	0.7	< 2	6
		17.50 - 20.63 Broken up earthy gravel from fault zone. Clay rich and hematitic. Fragments show chlorite alteration.	A 201004	17.50	20.63	3.13	75	323	41	0.5	4	7
		20.63 - 24.08 Fine-grained biotite migmatite with a moderate to strongly developed foliation at 75 to 80° to core axis. Migmatite comprises 55 - 75% of rock, pink k-feldspar 25 - 45% . Migmatite shows sericite alteration of feldspar component, pink k-feldspars unaffected. Minor pyrite. Carbonate veinlets, most of which are irregular, some at 30° and 80° to core axis. Intense chlorite alteration toward bottom of run.	A 201005	20.63	24.08	3.45	100	852	220	1.3	5	14
		24.08 - 25.65 As described above, showing variations between chlorite (mafic-rich) sections and biotite migmatite-rich sections. Continuing broken and with limonitic and carbonate coatings on most surfaces.	A 201006	24.08	25.65	1.57	100	289	203	1.2	4	6
25.65	32.82	MESOCRATIC SYENITE - pink syenite with occasional darker more mafic rich sections.										
		25.65 - 29.98 Pink syenite with fragments, weakly altered patches of pink and orangish-red k-feldspar and epidote. Limonite, hematite and carbonate coatings on fracture surfaces still common.	A 201007	25.65	29.98	4.33	100	108	90	0.3	4	5
		29.98 - 32.82 Pinkish grey syenite with weak patchy orangish k-feldspar alteration, and also as alteration envelopes at 85° to core axis. Carbonate ± hematite coatings on most fracture surfaces. Last 32 cm of interval is mafic rich with 8 cm of biotite migmatite and disseminated chalcopyrite and bornite. Patchy k-feldspar alteration also near end of interval. Limonitic low angle (0-5° to core axis) fracture through 1 metre of interval.	A 201008	29.98	32.82	2.84	100	1030	41	0.6	6	4

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
32.82	36.60	MAFIC-RICH SYENITE - as described above from 32.50 to 32.82. Grey syenite with patches of biotite rich migmatite and other dark patches of biotite, magnetite and sericite. Several of these dark patches are mineralized with blebs of chalcopyrite and bornite. Minor pyrite in the grey syenite. **32.82 - 34.30** As above, medium grained biotite rich syenite to 32.50, then k-feldspar and epidote-chlorite altered rock showing considerable variation in intensity and area. Dark patches are magnetic. **34.30 - 36.60** As above, minor disseminated chalcopyrite and bornite associated with mafic rich sections between 36.06 and 36.44. Magnetic.	A 201009	32.82	34.30	1.48	100	6587	822	3.5	11	29
			A 201010	34.30	36.60	2.30	100	8998	934	5.0	14	42
36.60	45.00	CHLORITE ALTERED MAFIC SYENITE - pervasive and intense chlorite alteration plus sericite-epidote and to lesser extent, k-feldspar alteration. Rock is so thoroughly altered that no original textures are recognizable and there is little to distinguish between mafic rich, including biotite-rich migmatite, and grey syenite. Medium to dark green colour with some fine-grained dark brownish tones. **36.60 - 39.32** As above, hairline carbonate stringers common at generally low angles (0 - 30° to core axis). Tiny disseminated blebs of bornite associated with / intergrown with blebs of magnetite. **39.32 - 42.37** As above, very broken and sheared. Continuing mineralized with blebs of bornite with magnetite. **42.37 - 45.00** Extremely broken up core, continuing fine-grained biotite-rich as with above run. Continuing strong chlorite alteration. This interval is more recognizable as syenite than above runs. Bornite mineralization as disseminated blebs, not all of which is associated with magnetite. Minor disseminated chalcopyrite.	A 201011	36.60	39.32	2.72	98	11192	1398	6.5	11	21
			A 201012	39.32	42.37	3.05	90	12381	758	9.3	4	8
			A 201013	42.37	45.00	2.63	60	14146	948	11.7	5	12
45.00	152.10	MELANOCRATIC SYENITE - mafic-rich pink and grey syenite showing extensive k-feldspar, chlorite and sericite alteration. Recognizable as syenite, as opposed to chlorite altered rock above. **45.00 - 48.46** As above, highly fractured core, extensive coatings of carbonate - hematite and minor chlorite. Chalcopyrite occurs as disseminated blebs in pink syenite and in patches / fragments of intensely chlorite - altered, biotite-rich mafic rock. Disseminated bornite occurs in mafic centres and the above described mafic rock. Sections of syenite are chlorite-epidote-sericite altered - pervasively but not texturally destructively. **48.46 - 51.51** As above, low angle fractures carry extensive coatings of hematite and on a few fracture faces (0-5° to core axis) blebs of chalcopyrite. Magnetic. **51.51 - 54.56** As above, but in general with a fairly dark grey tone and more fine-grained biotite-rich than above. Disseminated blebs of chalcopyrite carry associated bornite. Perhaps in the range of 1%	A 201014	45.00	48.46	3.46	92	9033	362	5.8	4	6
			A 201015	48.46	51.51	3.05	92	7514	329	5.4	< 2	5
			A 201016	51.51	54.56	3.05	100	6288	751	15.2	< 2	3

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		combined. Most of core has a very murky look because of chlorite-sericite alteration. A 1-2 cm seam of magnetite has associated pyrite / marcasite [?] plus minor chalcopyrite. No bornite with magnetite numerous patches of orangish-red k-feldspar cut the core at 60-80° to core axis.										
		54.56 - 57.61 As above, but more broken and limonite-hematite stained. Minor malachite with limonite on some fracture surfaces. Sections of competent core, with tan or dark grey (biotite-magnetite-rich) syenite are strongly mineralized with 2-3% chalcopyrite and 1-2% bornite, all as disseminated blebs. Competent core begins continuously at 56.42 m.	A 201017	54.56	57.61	3.05	95	7211	300	4.3	5	3
		57.61 - 60.66 As described above. Dark grey / tan coloured melanocratic syenite. Strongly mineralized with small blebs of disseminated chalcopyrite and bornite. Also contains fair amount of fine biotite (15-25%). Mineralization decreases toward bottom of run. Last 75 cm are quite broken, and chlorite altered. Highly magnetic.	A 201018	57.61	60.66	3.05	96	4686	189	3.2	< 2	3
		60.66 - 63.70 First metre of interval is more broken up than above, also chlorite-sericite altered, although textures remain visible. Low angle (0 - 5° to core axis) extend through first 2 metres of interval. Carbonate coatings on fracture surfaces are extensive. Core continues to be strongly mineralized with disseminated blebs of chalcopyrite and bornite, particularly in dark areas. Lower part of run is more k-feldspar altered with patches and streaks at 30-45° to core axis. K-feldspar altered areas are poorly mineralized compared to rest of run.	A 201019	60.66	63.70	3.04	92	11144	379	7.7	< 2	2
		63.70 - 66.75 Grey syenite as described above. Pervasive chlorite and sericite alteration but not intense / texture destructive. Continuing to be strongly mineralized with chalcopyrite and bornite. Fracture controlled chalcopyrite are some 60° to core axis fractures. Mineralization has become a bit patchy toward bottom of run. Minor pyrite in some 45° to core axis k-feldspar alteration envelopes.	A 201020	63.70	66.75	3.05	100	6126	176	4.7	< 2	5
		66.75 - 69.80 Grey syenite, but with numerous patches of orangish-coloured k-feldspar alteration, overall generally lighter colour tone than above. Mineralization is weak and patchy, about 0.25 - 0.5% chalcopyrite, minor pyrite, trace bornite.	A 201021	66.75	69.80	3.05	100	2078	60	1.5	2	4
		69.80 - 72.85 As above, most of interval consists of patches of k-feldspar alterations along with weaker but also patchy epidote and chlorite alteration. Continuing weakly mineralized as above.	A 201022	69.80	72.85	3.05	96	673	33	0.4	< 2	5
		72.85 - 75.90 Run begins with 60 cm of rubble followed by 60 cm of greyish pink syenite that is strongly mineralized. Followed by weakly mineralized grey syenite with patchy k-feldspar-epidote alteration. Mineralization consists of disseminated chalcopyrite with a trace of bornite. Continuing pervasive sericite alteration.	A 201023	72.85	75.90	3.05	96	2068	99	1.3	< 2	< 2
		75.90 - 78.95 Grey syenite with numerous orange-feldspar patches and alteration envelopes at generally steep angles (60-80° to core axis). Pervasive weak sericitic alteration. Overall weakly mineralized.	A 201024	75.90	78.95	3.05	100	1732	60	0.8	< 2	4
		78.95 - 81.99 Melanocratic syenite is described above. Many variations between dark grey and lighter orangish sections of k-feldspar alteration.	A 201083	78.95	81.99	3.04	100	1213	78	0.7	3	9

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		Chlorite and epidote alteration is patchy and locally intense, along with weak sericitic alteration. Weak sulphide mineralization.										
		81.99 - 85.04 Greyish green syenite as above, but with pervasive and intense chlorite alteration along with sericite-clay alteration leaving a dirty earthy deposit / coating exposed on broken surfaces. Highly altered sections have little mineralization but the more weakly altered last metre of the interval is strongly mineralized with chalcopyrite and bornite. Many fracture faces have heavy coatings of hematite.	A 201025	81.99	85.04	3.05	100	7162	327	4.5	< 2	6
		85.04 - 88.09 Syenite as above but with extensive k-feldspar alteration giving a very mottled orangish - pink and dark black / grey (biotite-rich) pattern. Low angle fracture faces at 0 - 10° to core axis persist for about 50 cm and have slickensides that rake at 85°. The upper metre of this interval shows intensive potassic alteration, the last metre is intensely chlorite altered. Patchy mineralization is overall weak.	A 201026	85.04	88.09	3.05	100	1210	67	0.9	2	2
		88.09 - 91.14 As above. Most of first metre of run is intensely chlorite altered with a low angle sheer zone at 88.60 with thick chlorite-carbonate fracture fillings. Balance of run is a dark grey chlorite-sericite altered rock with many dark areas which may contain very fine-grained biotite. Weak k-feldspar alteration through much of the interval allows the interval to be recognizable as a syenite. Hematite on irregular fracture surfaces. Weakly mineralized. Non magnetic.	A 201027	88.09	91.14	3.05	100	466	13	0.4	< 2	< 2
		91.14 - 94.38 Dark grey syenite as described above. Dark cloudy appearance, murkiness due to sericite alteration, perhaps also due to development of very fine-grained biotite. Weakly mineralized with 0.25 - 0.5% blebs of chalcopyrite. Continuing several percent magnetite. Minor pyrite. Weak patchy k-feldspar alteration.	A 201028	91.14	94.38	3.24	100	1831	52	1.7	< 2	7
		94.38 - 97.23 Continuing melanocratic syenite. Medium grey colour. Fine grained with an earthy / ground lustre, murky due to biotite-sericite chlorite alteration. Beginning of strong disseminated chalcopyrite and bornite mineralization. This interval is shot through with white quartz ± feldspar veinlets at 0-10° to core axis, most are irregular along the long axis of the core from 95.65 to 96.40. Core is broken, ground into gravel and displaying intense chlorite alteration. Mineralization seems to continue through the broken zone and the bornite appears to increase to 2-4%.	A 201029	94.38	97.23	2.85	100	20411	1343	12.7	5	15
		97.23 - 100.28 As described above. Pink and grey syenite shot through with white quartz ± feldspar veinlets along with some very black highly altered sections (biotite and sericite?). Core broken and sheared through much of interval and extremely chlorite ± sericite altered. Nothing recognizable through these sections, but mineralization seems to persist below in less altered rocks. Less altered sections are still heavily altered (biotite-chlorite-sericite) but textures still visible, plus patchy weak to moderate k-feldspar alteration.	A 201030	97.23	100.28	3.05	100	4767	240	2.8	4	7
		100.28 - 103.33 Pinkish grey syenite with some dark altered sections as described above, patchy k-feldspar alteration and irregular cross-cutting 1-3 mm wide quartz veins. Continuing strongly mineralized with	A 201031	100.28	103.33	3.05	100	8711	241	6.0	2	3

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		disseminated chalcopyrite and bornite.										
		103.33 - 106.38 Pinkish grey syenite as described above. Continuing strong mineralization, in places bornite is dominant at 2-3%.	A 201032	103.33	106.38	3.05	100	7951	156	5.7	< 2	< 2
		106.38 - 109.42 As above, grey syenite, somewhat darker than above, and includes some fine-grained biotite sections similar in composition to migmatite but as patches, not streaks / bands. Weak k-feldspar alteration forming vague patches of 10-20%. Reddish brown k-feldspar. Continuing strongly mineralized with bornite and chalcopyrite including chalcopyrite selvages in 2-3 mm quartz veins oriented at 50 and 55° to core axis. Irregular white quartz veining. Weak to non-magnetic.	A 201033	106.38	109.42	3.04	100	16426	831	12.1	3	8
		109.42 - 112.47 Pinkish grey syenite as described above, with many vague darker areas of fine biotite and small 1 cm patches of chlorite (very dark green). Toward the bottom of the run. Vague, barely distinct banding and cross-cutting streaks at 90° to core axis has begun to develop a slight pink component (k-feldspar alteration?) along with biotite rich grey streaks suggests incipient migmatite banding beginning to develop. Continuing strong fine-grained chalcopyrite and bornite disseminated mineralization.	A 201034	109.42	112.47	3.05	100	21319	2266	13.4	11	15
		112.47 - 115.52 As described above. Dark fine-grained biotite rich areas tend to carry mostly chalcopyrite. Overall amount of bornite has dropped off to about 0.5%. Chalcopyrite also fracture controlled, mostly steeper fractures around 60-80° to core axis, some with 2-4 mm quartz veins.	A 201035	112.47	115.52	3.05	100	12895	1212	12.8	4	12
		115.52 - 118.57 As described above. Continuing to be strongly mineralized with fine-grained disseminated chalcopyrite and bornite. Part of interval cut by low angle (0-5° to core axis) 2 mm wide, white quartz (± feldspar) veinlets. They are barren of sulphide mineralization.	A 201036	115.52	118.57	3.05	100	11326	478	8.2	4	5
		118.57 - 121.62 Syenite as described above. Medium-dark grey tone with a slight brownish-purple tinge due to fine-grained biotite and possibly weak k-feldspar (potassic alteration). Continuing to be strongly mineralized, most sulphide, especially bornite, is very fine grained.	A 201037	118.57	121.62	3.05	100	8127	299	6.2	< 2	4
		121.62 - 124.66 As described above, but more broken than above, includes some low angle fractures with 1-2 mm of chlorite (± epidote) paste as a filling continuing well mineralized but very fine grained, perhaps not as strong as above.	A 201038	121.62	124.66	3.04	98	15407	1220	10.7	3	13
		124.66 - 127.71 As above, the first 15 cm are massive chlorite (pale green) (± sericite?) with irregular magnetite veins carrying numerous blebs of bornite. Followed by tan / pinkish grey syenite with a heavy load of chalcopyrite - bornite. From about 124.95 to 126.26 the core is extremely chlorite altered and most is broken / sheared to a pasty gravel - nothing recognizable in it. Latter part of run is not broken but remains heavily altered (chlorite ± sericite).	A 201039	124.66	127.71	3.05	92	7214	558	5.3	9	11
		127.71 - 130.76 As described above, pinkish - tan / grey syenite with average 10-20% very fine-grained biotite. K-feldspar alteration (orangish-red k-feldspar) becoming more distinct with biotite rich parts forming more distinct patches with irregular edges or as migmatitic streaks which cut the core at high angles (65 to 90° to core axis). Continuing well mineralized with	A 201040	127.71	130.76	3.05	100	4334	259	3.0	< 2	3

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION
		most sulphide, especially bornite fracture controlled (at low angles about 10° to core axis).
		130.76 - 133.81 As described above. Most of run is migmatitic pinkish syenite. Continuing to be well mineralized, although perhaps not as strongly as some intervals above. Some fracture controlled chalcopyrite at 45° and 85° to core axis. Magnetic.
		133.81 - 136.86 As above, numerous dark patches which are very fine-grained biotite-rich (migmatite?) syenite. Amount of mineralization has decreased with depth, although patches rich in both chalcopyrite and bornite are still present. Pyrite present on some low angle fracture surfacs (0 - 10° to core axis). Syenite migmatite is much more patchy than banded.
		136.86 - 139.90 As above. Amount of pink k-feldspar has become dominant and is cut by many k-feldspar reddish orange alteration envelopes at 45 to 60° to core axis. Bornite still found in dark biotite rich patches with chalcopyrite, but in pink syenite the sulphides are chalcopyrite and pyrite. Blebs of chalcopyrite and pyrite are also noted on fractures (generally in the 45 to 60° to core axis range).
		139.90 - 142.95 As above, very blotchy dark areas in pink syenite patchy-chlorite and k-feldspar alteration. Mineralization is patchy, varying from weak chalcopyrite to strong chalcopyrite plus bornite. Overall mineralization appears to be weaker except in short strongly mineralized sections.
		142.95 - 146.00 As described above. Numerous dark patches with contrasting reddish-orange k-feldspar patches and streaks. Dark areas tend to be biotite rich and do not carry much mineralization any more, 1-2% magnetite. Disseminated and fracture controlled chalcopyrite and pyrite in the pink syenite. Fractures tend to be oriented in the range of 15-30° to core axis, often carrying quartz and k-feldspar. One 3 cm weak quartz vein cuts the core at 75° to core axis and carries pyrite, chalcopyrite and possibly a tiny flake of molybdenite. [There is, however, no marked increase in Mo content for this interval.]
		146.00 - 149.05 As above with many dark patches and migmatite streaks at 55-65° to core axis. Many of dark patches are becoming magnetite rich (5-10%). Patchy chalcopyrite mineralization is often weak. Minor epidote alteration.
		149.05 - 152.10 As above, but with large irregular patches of black mafics and massive magnetite. No sulphides noted in these patches. Some patches may be chlorite-epidote altered pyroxenite. Core has become magnetite-rich and carries only minor chalcopyrite, trace bornite.
152.10	189.77	MESOCRATIC SYENITE - a gradational change over several runs to a lighter-coloured syenite ± migmatite.
		152.10 - 155.14 Orangish-red syenite with dark streaks of fine biotite-rich migmatite. Patchy, weak to moderate disseminated mineralization of chalcopyrite with minor bornite.
		155.14 - 158.19 As described above, orange syenite with a weak to

SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
A 201041	130.76	133.81	3.05	100	5268	362	4.2	3	7
A 201042	133.81	136.86	3.05	100	6565	341	5.8	5	5
A 201043	136.86	139.90	3.04	100	3559	148	2.8	5	6
A 201044	139.90	142.95	3.05	100	4506	516	3.0	8	9
A 201045	142.95	146.00	3.05	100	7058	532	5.8	5	21
A 201046	146.00	149.05	3.05	100	2993	196	2.2	4	12
A 201047	149.05	152.10	3.05	100	1028	73	0.8	3	7
A 201048	152.10	155.14	3.04	100	1057	26	0.8	< 2	3
A 201049	155.14	158.19	3.05	100	2407	116	1.6	< 2	2

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		moderately well developed biotite migmatite. Most of core / interval appears to be strongly potassic altered (up to 80% bright orangish-red k-feldspar). Strongly mineralized in streaks parallel to foliation defined by migmatite. Some strongly k-feldspar altered sections are poorly mineralized.										
		158.19 - 161.24 As described above. Orange-grey syenite with numerous thin lines, blebs and patches of mostly fine biotite. Numerous patches and cross-cutting bands of orangish k-feldspar. Many grey areas with wispy dark biotite-rich areas are strongly mineralized by chalcopyrite and bornite. Orangish k-feldspar rich areas are mineralized with chalcopyrite.	A 201050	158.19	161.24	3.05	100	2567	152	1.8	< 2	< 2
		161.24 - 164.29 Pinkish grey syenite as described above with numerous orange k-feldspar alteration zones. Strongly to moderately well mineralized with disseminated blebs of chalcopyrite and pyrite. Orange k-feldspar alteration envelopes cut the core at 60 - 80° to core axis.	A 201051	161.24	164.29	3.05	100	1978	62	1.6	< 2	< 2
		164.29 - 167.34 Pinkish-grey syenite as described above, numerous k-feldspar alteration zones. This run appears to be slightly coarser grained than above and the k-feldspar slightly less altered. Grey patches (grey orthoclase and biotite ± magnetite) contain better mineralization (chalcopyrite plus minor bornite) as opposed to pink syenite (chalcopyrite ± pyrite) some of which is fracture controlled, at 45 - 60° to core axis. Run contains small patches of chlorite altered mafic, also chlorite coatings on some low angle (0 - 10° to core axis) fracture faces.	A 201052	164.29	167.34	3.05	100	1640	66	1.3	< 2	4
		167.34 - 170.38 Pink / grey syenite with a number of orangish-red patches as described above. Some variation in grain size with the pink-orangish red sections being coarser grained. Sections with migmatitic blebs and streaks are mineralized the best with chalcopyrite and minor bornite in the mafic bits (fine biotite and magnetite) while just chalcopyrite (aligned with foliation) is found in the k-feldspar between migmatite blebs. Overall run is weakly mineralized. There is an increase in chlorite-epidote alteration toward bottom of run. Pyrite is associated with orange k-feldspar alteration envelopes at 80-85° to core axis.	A 201053	167.34	170.38	3.04	100	1526	40	1.4	2	5
		170.38 - 173.43 As above, pink / grey syenite with many grey patches and vague weakly developed k-feldspar alteration zones beginning of weak epidote alteration but pervasive over much of core. Overall fairly light colour tone. Most of the epidote appears to be associated with the potassic k-feldspar alteration. Minor pyrite mineralization. The alteration gives a cloudy indistinct appearance to most of interval.	A 201054	170.38	173.43	3.05	100	878	18	0.5	5	6
		173.43 - 176.48 Grey / pink syenite as described above. Patchy pink k-feldspar alteration with epidote centres common. Alteration has a weakly developed banding, most commonly about 60° but ranging as low as 30° to core axis. Weakly mineralized with minor chalcopyrite disseminated specks.	A 201055	173.43	176.48	3.05	100	1812	16	1.6	5	5
		176.48 - 179.53 Grey syenite with many irregular veinlets of white milky quartz and carbonate, also includes areas of fine-grained chlorite and patches of foliated chlorite - sericite altered rock (pieces of partly assimilated other rock type). No sulphides seen. Continuing magnetic.	A 201056	176.48	179.53	3.05	100	726	12	0.4	< 2	< 2

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION
		179.53 - 182.58 A transitional interval from pink syenite to highly sericite - chlorite altered syenite (?). Several white 'milky' quartz veins disrupt the interval and surround angular fragments of the altered host. Pinkish red / orange k-feldspar alteration also common as patches. Small irregular quartz veinlets carry pyrite and display colliform structures.
		182.58 - 185.62 Highly altered (sericite and chlorite) rock with numerous patches of orangish-red k-feldspar alteration cut by irregular veins of milky quartz much of core has a very fine grained blotchy appearance due to variable intensity of alteration. Light green colour in places as above run. Bright orange k-feldspar alteration envelopes 1-2 cm surround 102 mm quartz veins and carry minor cubic pyrite, oriented at 45° to core axis. Non-magnetic.
		185.62 - 188.67 Grey syenite with almost continuous patches of orange k-feldspar alteration, most of run is medium to coarse grained and carries 20% fairly coarse (6-8 mm) books of biotite. Most of run is disrupted by low angle (about 10° to core axis) and 45° to core axis quartz veins. Mostly white milky quartz with weak colliform structures and later stage clear quartz filling centres. They range from 1 mm to 1 cm is size. Minor cubic pyrite associated with veins.
		188.67 - 189.77 Pink syenite as above, increasing mafic / chlorite alteration with depth.
189.77	194.27	MAFIC-RICH SYENITE - increases in mafic-biotite (chlorite content is gradual but is enough to push balance of this syenitic interval into mafic-rich melanocratic syenite. Most of this gradual change takes place in this run (from 188.67 to 191.72). The mafic rich portion also shows an increase in alteration and more chlorite ± epidote on fracture surfaces. Also an apparent decrease in grain size (?) as textures become obscured by alteration. Contact between potassic altered (orange k-feldspar alteration envelopes at 0° to 45° to core axis) rock and the host is more apparent, along with associated pyrite.
		189.77 - 191.72 As above, quartz veinlets common, mostly in the range of 30° to 45° to core axis.
		191.72 - 194.27 As above but becoming more mafic rich and more altered (chlorite-sericite) textures obscure / destroyed by bottom of interval. Includes a 20 cm patch of intensely chlorite altered biotite pyroxenite. Numerous irregular quartz veinlets, a 6-8 mm quartz vein at 45°, patchy orange k-feldspar plus pyrite alteration plus weak epidote alteration noted at contact with pyroxenite below. Between 194.27 and the EOH at 234.39 is an alternating sequence of narrow bands of biotite pyroxenite and syenite.

SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
A 201057	179.53	182.58	3.05	100	748	13	0.6	2	3
A 201058	182.58	185.62	3.04	100	298	11	< .3	< 2	< 2
A 201059	185.62	188.67	3.05	100	517	20	0.4	3	5
A 201060	188.67	191.72	3.05	100	873	103	1.4	2	4
A 201061	191.72	194.27	2.55	100	1764	102	1.9	5	8

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
194.27	197.18	BIOTITE PYROXENITE - Biotite-rich (40-60%) moderate but pervasive chlorite alteration of pyroxene. Biotite (alteration) increases toward bottom of interval.										
		194.27 - 197.18 Includes a few weakly developed patches of k-feldspar. No sulphides seen.	A 201062	194.27	197.18	2.91	100	86	3	< .3	7	< 2
197.18	204.61	MELANOCRATIC SYENITE - a mafic rich syenite with locally well developed syenite migmatite. Fairly high content of fine-grained biotite along with magnetite form patches and streaks of migmatite, generally at steep angles 70-90° to core axis. Orange k-feldspar alteration becomes very pronounced with depth.										
		197.18 - 200.04 As described above, moderately well mineralized with disseminated chalcopyrite in syenite fraction, migmatitic fraction includes disseminated pyrite with chalcopyrite.	A 201063	197.18	200.04	2.86	100	3343	52	2.2	3	8
		200.04 - 204.61 As described above. Migmatite decreases with depth through the interval, there only being patches left after 201.50. Amount of orange k-feldspar alteration increases gradually with depth and is dominant after 201.50. Run is moderately well mineralized with chalcopyrite (in range of 0.5 to 1.5%) but becomes patchy in the lower half of run. A 1 cm wide magnetite vein (75° to core axis) at 203.66 carries blebs of bornite and chalcopyrite. Also, some disseminated blebs of both in host syenite. Traces *specular hematite and bornite elsewhere.*	A 201064	200.04	204.61	4.57	100	1333	23	0.9	< 2	7
204.61	207.31	BIOTITE PYROXENITE - showing pervasive moderate to intense chlorite alteration except between 205.20 to 205.70 where it has been subjected to intense chlorite-sericite-carbonate and pyrite alteration.										
		204.61 - 205.20 As described above, no sulphides noted.	A 201065	204.61	205.20	0.59	100	27	< 2	< .3	8	< 2
		205.20 - 205.70 *Intensely altered biotite pyroxenite, almost* unrecognizable except for some 15-20% random large biotite flakes. Interval is a multitude of 30°, 45° and 70° carbonate veinlets. Grey colour due to intense sericite-carbonate-pyrite alteration of feldspars, along with chlorite alteration of pyroxene. Contains 1-2% pyrite. An orange-colored k-feldspar patch is at the bottom of the interval.	A 201066	205.20	205.70	0.50	100	47	54	0.5	9	< 2
		205.70 - 207.31 Biotite pyroxenite as described above between 204.61 - 205.20 pervasive and intense chlorite alteration. Minor pyrite noted.	A 201067	205.70	207.31	1.61	100	44	< 2	< .3	7	< 2
207.31	208.55	MELANOCRATIC SYENITE - mafic (biotite) rich syenite with a weakly developed migmatitic foliation.										
		207.31 - 208.59 Biotite-rich (fine-grained) syenite with a dark, fairly indistinct appearance. Very similar to much of the weakly developed syenite	A 201068	207.31	208.59	1.28	100	576	7	0.4	6	10

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		migmatite describe higher in the section. Has a slight purplish-pink tinge to grey colour. Minor to locally 1% disseminated chalcopyrite through upper part of interval, dies out toward the bottom where there are sericite-carbonate-altered patches of pyroxenite, and irregular quartz-carbonate veining.										
208.59	210.01	BIOTITE PYROXENITE - as described above. Intense chlorite alteration of pyroxene along with a large patch (12 cm) of coarse tan-coloured k-feldspar. **208.59 - 210.01** Biotite pyroxenite as above, but toward the bottom of interval (last 50 cm) it is sericite (± carbonate) altered and has a grey colour, similar to 205.20 to 205.70 above, although not as intense. Probably due in part to higher original feldspar content in this section of pyroxenite.	A 201069	208.59	210.01	1.42	100	24	< 2	< .3	6	2
210.01	218.65	MELANOCRATIC SYENITE MIGMATITE - mafic-rich with variable, weak to strongly developed migmatite texture at 80-90° to core axis. **210.01 - 213.06** As described above, syenite with fine grained biotite migmatite cut by irregular milky white quartz veinlets to 5 mm at low angles, generally less than 30° to core axis. Mineralized with 1% disseminated blebs of chalcopyrite and variable 0.5 to 2.0% cubic pyrite. **213.06 - 216.10** As above, but with many small patches of intensely chlorite altered pyroxenite (also carbonate rich). Migmatitic fabric not present through most of run. Core quite broken with chlorite-sericite common on fracture surfaces. Mineralized with fine disseminated chalcopyrite and pyrite through syenite migmatite sections locally reach 1% continued patches of pyroxenite carry minor blebs of chalcopyrite and pyrite. **216.10 - 218.65** As described above mineralized with disseminated chalcopyrite to 1% with minor bornite, pyrite locally to 2% but patchy. Interval becomes coarser grained toward bottom of run.	A 201070	210.01	213.06	3.05	100	1501	23	0.7	4	6
			A 201071	213.06	216.10	3.04	100	512	35	0.4	< 2	2
			A 201072	216.10	218.65	2.55	100	741	46	0.8	2	4
218.65	219.68	BIOTITE PYROXENITE (**218.65 - 219.68**) - showing intense pervasive chlorite alteration. Below 219.00 it is cut by many 1-3 cm wide coarse-grained syenitic 'veins' between 45-90° to core axis which show weak to moderate sericitic alteration.	A 201073	218.65	219.68	1.03	100	213	6	0.3	2	2
219.68	223.63	MESOCRATIC SYENITE - with sections of weakly developed syenite migmatite and a 24 cm section of potassic feldspar biotite pyroxenite. **219.68 - 222.20** As above, with several sections of migmatite at 80° to core axis. Mineralized with disseminated chalcopyrite to locally 1%, average 0.25 to 0.5% minor pyrite. Pyroxenitic section between 221.52 to 221.76 is unmineralized.	A 201074	219.68	222.20	2.52	100	1005	16	0.5	< 2	2

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		222.20 - 223.63 As above. Mineralized with up to 1% chalcopyrite but average is closer to 0.5% with minor bornite.	A 201075	222.20	224.81	2.61	100	699	35	< .3	3	4
223.63	224.81	MELANOCRATIC MAFIC-RICH SYENITE - a transitional unit to pyroxenite below. Includes several short sections of pyroxenite and mafic rich syenite. **223.63 - 224.81** As above, coarse grained, chlorite and epidote alteration patches. Section of pyroxenite is very biotite rich (65%). Moderate chlorite alteration, no sulphides seen. Magnetic.										
224.81	225.25	BIOTITE PYROXENITE - showing pervasive and intense chlorite alteration. **224.81 - 225.25** As above, minor disseminated blebs of chalcopyrite.	A 201076	224.81	225.25	0.44	100	153	8	< .3	3	2
225.25	227.02	MESOCRATIC SYENITE - identical to syenite above between 219.68 to 223.63. Initial 30 cm and lower 20 cm are coarse-grained, minor epidote. **225.25 - 227.02** As above, mineralized with disseminated small blebs of chalcopyrite to 1% and tiny specks of bornite to 0.25 - 0.5%, bornite is usually associated with larger blebs of chalcopyrite. Magnetic.	A 201077	225.25	227.02	1.77	100	1063	32	0.9	3	5
227.02	228.37	BIOTITE PYROXENITE - showing intense and pervasive chlorite alteration of pyroxene. Magnetic. **227.02 - 228.09** Biotite pyroxenite as described above. No sulphides seen. **228.09 - 228.37** Potassium feldspar biotite pyroxenite, gradational between pyroxenite above and the syenite below.	A 201078	227.02	228.37	1.35	100	152	< 2	0.3	3	3
			A 201079	228.37	229.00	0.63	100	754	74	< .3	15	13
228.37	229.00	MESOCRATIC SYENITE - coarse-grained greyish-pink syenite (a coarse-grained analogue of the syenite above). 1-2% blebs of magnetite. Contains a few small patches of disaggregated, chlorite altered pyroxenite. Sericite alteration of feldspars in weakly developed alteration envelopes along 45° fractures (to core axis). Fractures are coated with carbonate.										
229.00	233.50	POTASSIUM-FELDSPAR BIOTITE PYROXENITE - showing moderate to intense, pervasive chlorite alteration. **229.00 - 229.94** Biotite pyroxenite with 30-40% irregular masses of k-feldspar. Moderate to intense chlorite alteration of pyroxenes. **229.94 - 231.34** Potassium-feldspar biotite pyroxenite as above but with increase in k-feldspar to 65%. Most of which is as oikocrysts of k-feldspar to 1 cm. Some variation in colour between grey and pink oikocrysts, but no zoning apparent. Some carbonate coated fractures at 45° to core axis.	A 201080	229.00	231.34	2.34	100	121	3	< .3	6	8

FOOTAGE (metres) From (m)	To (m)	LITHOLOGICAL DESCRIPTION	SAMPLES Sample #	From (m)	To (m)	Metres	Rec. %	ASSAYS Cu (ppm)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)
		231.34 - 233.50 As above, but with a few patches to 3-4 cm of coarse-grained k-feldspar. Intense chlorite alteration plus a few specks of epidote alteration.	A 201081	231.34	233.50	2.16	100	13	4	< .3	5	3
233.50	234.39	MELANOCRATIC SYENITE (**233.50 - 234.39**) - greenish grey syenite with chlorite-sericite alteration giving a green tinge to colour. Medium-grained with more green sericite alteration (pervasive-moderately strong) than seen before in this hole. Several percent fine grained magnetite. Trace pyrite.	A 201082	233.50	234.39	0.89	100	926	13	0.7	2	7
234.39		END OF HOLE.										

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
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GEOCHEMICAL ANALYSIS CERTIFICATE

Eastfield Resources Ltd. File # A102955 Page 1

110 - 325 Howe St., Vancouver BC V6C 1Z7 Submitted by: Jay W. Page

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117151	2	2314	6	55	1.3	12	6	396	1.91	4	<8	<2	2	62	<.2	<3	<3	115	.57	.094	9	57	.31	60	.14	<3	.54	.05	.30	<2	32	4	5
C 117152	3	2111	8	67	1.0	11	7	547	1.59	2	<8	<2	2	73	.2	<3	<3	85	.53	.077	7	35	.77	87	.18	<3	.84	.04	.51	3	58	4	5
C 117153	1	2822	3	54	1.9	8	5	392	1.24	2	<8	<2	2	75	.5	<3	<3	73	.88	.070	9	30	.53	59	.15	<3	.83	.04	.33	3	145	3	6
C 117154	3	2098	5	59	1.6	7	6	445	1.56	2	<8	<2	3	131	.2	<3	<3	90	1.05	.086	9	32	.53	70	.14	5	.83	.05	.31	2	57	<2	4
C 117155	2	1874	<3	54	1.1	8	6	369	1.49	2	<8	<2	<2	105	<.2	<3	<3	91	.75	.068	7	30	.54	80	.17	3	.77	.05	.39	2	52	4	6
C 117156	3	2068	7	54	1.1	6	6	431	1.34	2	<8	<2	3	68	<.2	<3	<3	76	.87	.080	10	43	.65	81	.19	4	.81	.04	.46	2	48	4	6
C 117157	2	2797	<3	54	2.5	6	6	359	1.25	2	<8	<2	3	83	.3	<3	<3	70	.90	.087	10	24	.53	249	.15	3	.90	.06	.34	2	73	5	7
C 117158	3	4046	4	60	2.3	6	10	322	1.57	3	<8	<2	5	100	.4	<3	3	60	.67	.155	16	33	.45	96	.11	5	.68	.04	.39	3	164	4	6
C 117159	5	2401	4	32	1.0	5	4	141	.81	2	<8	<2	2	153	.2	<3	<3	32	.23	.026	9	41	.11	165	.12	<3	.29	.04	.28	<2	62	2	3
C 117160	5	3110	7	29	1.3	4	3	148	.78	2	<8	<2	3	316	.3	<3	<3	33	.38	.100	11	37	.15	330	.10	4	.32	.05	.32	2	60	3	4
RE C 117160	5	3090	3	29	1.7	4	3	147	.77	2	<8	<2	3	315	.3	<3	<3	32	.38	.101	11	36	.15	327	.10	4	.31	.04	.32	2	58	<2	4
RRE C 117160	5	3007	4	27	1.5	5	3	145	.75	3	<8	<2	3	310	.3	<3	<3	32	.41	.114	12	33	.14	320	.10	5	.32	.05	.32	2	62	2	3
C 117161	3	2299	3	44	.8	5	5	291	1.08	<2	<8	<2	2	179	<.2	<3	<3	58	.42	.071	10	38	.51	191	.16	5	.60	.05	.51	<2	43	5	4
C 117162	3	2318	3	28	1.4	4	2	197	.82	<2	<8	<2	3	76	<.2	<3	<3	34	.39	.028	12	36	.11	100	.07	3	.36	.04	.28	2	34	3	4
C 117163	3	2268	<3	41	1.1	6	7	357	1.81	2	<8	<2	2	100	<.2	<3	<3	73	.68	.086	10	37	.37	132	.12	4	.52	.04	.46	2	40	2	4
C 117164	3	4144	4	36	1.9	5	3	328	1.07	3	<8	<2	3	54	<.2	<3	<3	49	.61	.065	15	31	.15	72	.02	<3	.42	.03	.24	2	65	2	2
C 117165	15	10399	5	53	4.5	4	5	361	1.48	9	<8	<2	4	39	.4	3	<3	42	.31	.097	17	28	.23	77	.01	<3	.58	.02	.22	<2	222	3	4
C 117166	11	17024	3	149	18.7	11	10	686	3.53	15	<8	<2	5	53	1.5	21	7	166	.48	.122	23	38	.33	65	.06	<3	.84	.03	.28	<2	669	7	8
C 117167	2	9198	4	114	8.0	9	10	642	3.42	3	<8	<2	3	114	.4	<3	4	169	1.03	.132	12	35	.59	73	.14	<3	.96	.04	.25	2	562	4	6
C 117168	9	3601	8	128	2.5	12	14	1122	4.42	5	<8	<2	5	94	.4	<3	3	220	2.05	.150	15	27	.89	61	.08	<3	1.21	.04	.30	4	184	4	5
C 117169	5	2943	3	111	1.6	9	13	779	3.78	6	<8	<2	4	109	<.2	<3	<3	167	.74	.098	9	29	.74	57	.14	3	1.02	.04	.31	4	74	3	4
C 117170	2	2381	6	120	1.2	10	10	683	3.57	9	<8	<2	10	123	<.2	<3	<3	184	1.66	.294	24	29	.67	44	.11	3	.95	.05	.26	3	51	5	5
C 117171	2	2071	6	172	1.6	10	16	790	4.28	3	<8	<2	3	133	2.8	<3	<3	210	1.86	.115	10	28	.74	53	.15	3	.96	.05	.38	5	133	5	5
C 117172	1	1538	5	103	1.0	10	10	734	3.60	4	<8	<2	4	144	<.2	<3	<3	161	1.96	.178	15	27	.69	53	.14	<3	1.00	.06	.29	3	80	5	5
RE C 117172	2	1535	3	101	1.1	10	10	728	3.59	4	<8	<2	4	142	<.2	<3	<3	161	1.95	.177	15	28	.69	53	.14	<3	1.00	.06	.28	4	91	4	4
RRE C 117172	2	1451	4	99	.9	9	10	714	3.51	5	<8	<2	4	137	<.2	<3	<3	154	1.86	.164	14	24	.69	49	.14	3	.97	.05	.27	4	64	3	3
C 117173	2	3687	8	98	3.1	9	9	761	2.76	8	<8	<2	7	154	.2	<3	<3	128	2.00	.262	26	30	.78	55	.12	<3	1.02	.05	.36	3	164	2	4
C 117174	3	2337	5	112	1.9	8	11	1020	3.18	6	<8	<2	5	195	.3	<3	<3	150	2.68	.219	21	30	.84	116	.12	<3	1.04	.05	.50	4	77	5	5
C 117175	2	2438	7	119	2.0	9	10	927	3.31	3	<8	<2	5	153	.2	<3	<3	173	2.16	.150	16	30	.75	66	.13	3	.97	.06	.42	4	82	7	6
C 117176	3	2699	6	114	1.6	8	9	731	3.32	2	<8	<2	2	142	<.2	<3	<3	167	1.35	.080	9	28	.49	59	.15	3	.81	.05	.34	4	76	2	3
C 117177	3	5947	11	143	4.2	12	12	749	4.14	2	<8	<2	2	126	.8	<3	<3	213	1.22	.056	7	34	.44	53	.15	<3	.75	.05	.27	4	185	4	5
C 117178	4	3207	4	104	2.4	6	7	673	2.86	2	<8	<2	3	105	.4	<3	<3	150	1.41	.055	8	33	.31	57	.12	5	.53	.04	.22	3	118	2	2
C 117179	4	4118	14	77	3.5	13	11	757	3.34	<2	<8	<2	2	180	.3	<3	3	148	2.07	.139	13	34	.59	116	.12	4	.75	.05	.46	2	199	6	8
C 117180	4	274	6	60	<.3	3	11	668	3.16	3	<8	<2	3	562	<.2	<3	<3	120	1.87	.153	12	26	.77	553	.13	5	1.10	.05	.77	2	2	2	<2
STANDARD C3/FA-10R	26	68	34	165	5.4	37	11	781	3.43	53	24	2	19	29	23.5	15	23	82	.58	.088	19	170	.63	152	.10	19	1.89	.04	.16	20	494	484	500
STANDARD G-2	2	4	5	42	<.3	8	4	533	2.01	<2	<8	<2	3	70	<.2	<3	<3	40	.64	.094	8	76	.61	222	.15	<3	.91	.07	.45	4	-	-	-

2001-50

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE R150 60C AU** PT** PD** GROUP 3B BY FIRE ASSAY & ANALYSIS BY ICP-ES. (30 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 31 2001 **DATE REPORT MAILED:** Sept 19/01 **SIGNED BY.** C. Leong D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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 ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117181	2	3609	8	94	2.2	8	9	520	3.16	3	<8	<2	2	120	.4	<3	<3	175	.85	.068	7	26	.50	68	.18	<3	.96	.06	.44	3	80	<2	<2
C 117182	2	4432	<3	124	2.7	10	11	657	3.96	4	<8	<2	2	83	.7	<3	<3	239	.61	.074	7	35	.53	70	.21	<3	.77	.05	.55	4	94	2	<2
C 117183	3	9843	9	122	7.1	15	10	638	3.29	4	<8	<2	3	77	1.3	<3	<3	200	.69	.065	8	31	.50	64	.19	3	.67	.06	.50	5	514	5	7
C 117184	3	8182	8	79	6.1	11	8	420	2.30	3	<8	<2	2	110	.9	<3	<3	114	.67	.081	10	37	.44	94	.17	<3	.57	.05	.49	3	344	3	3
C 117185	3	2602	3	99	1.6	17	17	832	4.11	2	<8	<2	2	178	.4	<3	<3	198	1.88	.204	17	42	.97	163	.16	<3	1.06	.05	.70	4	99	<2	4
C 117186	4	2998	4	99	1.5	9	11	732	3.47	5	<8	<2	2	155	.6	<3	3	177	1.22	.113	13	39	.56	78	.17	<3	1.04	.12	.40	4	192	2	<2
C 117187	3	2400	6	105	1.8	8	10	661	3.29	5	<8	<2	5	101	.6	<3	<3	178	1.20	.180	18	37	.51	67	.15	3	.75	.05	.43	4	66	<2	<2
C 117188	3	2896	6	159	1.6	12	15	886	5.23	5	<8	<2	5	114	<.2	<3	4	302	1.42	.203	20	45	.55	51	.15	<3	.87	.05	.33	5	109	2	3
C 117189	2	4559	<3	99	2.3	12	13	761	3.96	4	<8	<2	3	84	.4	<3	5	224	.79	.148	14	36	.71	82	.19	<3	.86	.05	.63	5	150	<2	<2
C 117190	3	3219	10	145	1.7	12	15	1019	4.80	4	<8	<2	4	128	.8	<3	3	260	1.96	.189	17	43	.97	62	.16	<3	1.05	.05	.40	6	72	<2	3
RE C 117190	3	3248	5	145	1.5	12	15	1026	4.86	4	<8	<2	3	129	.5	<3	3	267	1.98	.188	17	40	.97	62	.16	<3	1.06	.05	.41	4	91	3	3
RRE C 117190	2	3172	6	138	1.6	13	15	993	4.75	3	<8	<2	4	126	.5	<3	<3	261	1.89	.185	16	40	.94	63	.16	<3	1.02	.05	.41	5	75	3	.4
C 117191	3	5448	7	120	2.5	13	15	994	4.77	3	<8	<2	3	154	.6	<3	3	261	1.65	.145	13	43	1.03	115	.19	<3	1.07	.05	.64	4	79	3	3
C 117192	7	3389	7	92	1.4	11	12	624	3.09	3	<8	<2	2	187	.7	<3	3	157	1.39	.123	14	32	.72	202	.16	<3	1.00	.05	.60	3	107	2	2
C 117193	11	1885	6	41	1.2	4	7	375	1.11	2	<8	<2	2	167	.4	<3	<3	43	1.70	.072	11	24	.25	422	.04	4	.58	.04	.36	2	43	<2	<2
C 117194	4	1935	10	95	1.3	6	5	462	1.14	2	<8	<2	<2	148	.4	<3	<3	47	1.91	.027	5	31	.23	181	.04	4	.43	.05	.28	4	70	<2	<2
C 117195	5	4594	<3	101	2.2	12	16	769	2.98	<2	<8	<2	2	132	.6	<3	<3	136	1.65	.050	7	39	1.95	106	.27	3	1.51	.10	1.24	4	160	<2	2
C 117196	12	5562	5	87	2.3	24	27	506	5.01	2	<8	<2	2	131	.9	<3	<3	197	1.18	.093	8	52	3.02	163	.42	<3	2.28	.13	2.17	4	122	<2	4
C 117197	5	1685	3	108	.3	16	17	706	4.61	3	<8	<2	2	216	.4	<3	4	233	1.35	.105	8	44	2.05	110	.33	7	1.69	.09	1.48	4	38	<2	<2
C 117198	7	5669	8	117	3.3	19	22	631	3.76	3	<8	<2	2	197	1.6	<3	<3	178	1.07	.082	7	43	2.37	180	.37	<3	1.93	.08	1.81	4	126	2	3
C 117199	8	2799	6	102	1.2	15	21	677	4.13	4	<8	<2	2	222	.7	<3	3	188	1.16	.115	8	42	1.72	117	.30	<3	1.59	.08	1.34	3	39	2	5
C 117200	5	2913	8	123	1.2	25	29	914	4.06	<2	<8	<2	3	153	.8	<3	<3	197	1.72	.106	7	53	2.93	100	.37	3	2.27	.08	2.14	4	55	<2	5
C 117201	3	2715	9	74	1.7	10	10	470	2.51	2	<8	<2	3	141	.6	<3	<3	119	.92	.076	8	37	.56	85	.16	<3	.77	.07	.54	2	82	3	5
C 117202	3	1728	9	71	.9	11	10	496	2.30	<2	<8	<2	3	180	.2	<3	<3	102	.90	.098	8	37	.76	95	.21	3	.99	.08	.67	3	45	<2	3
RE C 117202	3	1691	8	70	1.1	11	9	485	2.26	<2	<8	<2	3	176	.3	<3	<3	100	.88	.096	7	36	.74	90	.20	5	.95	.07	.65	4	43	2	5
RRE C 117202	4	1687	5	70	1.1	10	9	486	2.24	2	<8	<2	3	174	.3	<3	3	100	.89	.099	8	38	.75	88	.20	<3	.94	.07	.64	3	41	<2	2
C 117203	3	653	3	67	.4	7	6	491	2.21	<2	<8	<2	2	231	<.2	<3	<3	97	1.08	.069	8	30	.57	93	.18	3	.85	.07	.52	3	20	2	3
C 117204	3	394	5	34	.4	3	3	303	1.23	<2	<8	<2	2	250	<.2	<3	<3	48	.84	.034	5	33	.29	135	.11	<3	.53	.06	.37	2	18	<2	2
C 117205	5	443	5	57	.4	7	6	463	2.08	<2	<8	<2	2	323	.2	<3	<3	94	1.04	.056	7	30	.45	123	.15	<3	.82	.09	.50	3	18	2	2
C 117206	4	520	4	67	.4	8	8	766	2.73	<2	<8	<2	2	447	.3	<3	<3	95	2.28	.086	8	26	.66	210	.06	4	.64	.04	.47	3	11	<2	4
C 117207	2	159	<3	67	<.3	76	24	802	3.79	<2	<8	<2	2	439	.3	<3	<3	96	2.44	.120	10	184	2.05	256	.16	3	1.41	.03	1.30	2	17	<2	<2
C 117276	6	488	15	92	.4	22	32	1761	5.78	4	<8	<2	2	350	.4	<3	<3	206	6.67	.344	17	43	1.79	1270	.15	<3	1.72	.04	.75	5	19	2	6
C 117277	5	121	<3	129	<.3	38	48	1438	7.75	<2	<8	<2	2	312	<.2	<3	4	279	3.55	.406	28	55	3.17	1615	.08	<3	2.67	.05	1.90	5	7	7	7
C 117278	4	200	4	96	.3	67	30	1275	3.31	5	<8	<2	2	257	.9	<3	<3	113	3.88	.193	14	133	2.88	566	.16	<3	2.33	.05	1.38	4	9	<2	3
C 117279	10	457	<3	91	.5	77	29	1247	3.14	4	<8	<2	2	308	.6	<3	<3	105	3.54	.158	12	121	2.78	750	.18	<3	2.24	.05	1.55	6	3	2	4
STANDARD C3/FA-10R	26	69	34	165	6.0	37	11	782	3.46	56	22	2	19	30	23.6	15	22	82	.58	.089	19	170	.63	154	.10	19	1.93	.04	.16	20	486	472	478
STANDARD G-2	1	4	4	41	<.3	8	3	523	2.00	<2	<8	<2	3	69	<.2	<3	<3	38	.64	.092	7	77	.61	218	.14	<3	.90	.07	.45	3	-	-	-

2001-50

2001-51

Sample type: CORE R150 60C. 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 ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117280	2	568	3	61	<.3	25	19	812	3.92	<2	<8	<2	<2	229	.2	<3	<3	151	2.57	.283	15	54	1.09	562	.11	<3	1.03	.04	.71	2	59	9	23
C 117281	2	37	3	7	<.3	2	1	165	.58	2	<8	<2	2	51	<.2	<3	<3	23	.48	.004	2	48	.02	193	.01	<3	.16	.07	.13	3	16	<2	<2
C 117301	8	61	<3	76	<.3	6	8	545	2.98	4	<8	<2	8	267	<.2	<3	3	133	1.86	.244	25	26	.25	36	.05	<3	2.44	.81	.24	4	2	6	2
C 117302	3	179	5	93	<.3	7	9	779	3.46	<2	<8	<2	3	228	<.2	<3	<3	168	1.17	.122	12	40	.36	66	.10	<3	1.36	.38	.37	4	11	2	4
C 117303	3	721	<3	180	<.3	9	17	1371	5.66	4	<8	<2	8	319	<.2	<3	<3	287	1.50	.201	23	38	.54	80	.11	7	1.25	.21	.44	<2	281	8	11
C 117304	6	678	5	115	.5	6	12	1119	4.73	2	<8	<2	4	325	<.2	<3	<3	247	1.68	.115	13	35	.37	44	.11	5	2.03	.56	.32	4	58	2	2
C 117305	<1	347	6	73	<.3	8	7	697	2.78	<2	<8	<2	3	124	<.2	<3	<3	128	.88	.067	9	29	.26	72	.10	<3	.51	.09	.27	2	20	<2	2
C 117306	11	1327	<3	143	.6	9	13	1330	5.53	4	<8	<2	12	328	.2	<3	<3	302	2.13	.330	40	27	.26	41	.09	8	1.91	.50	.24	5	122	4	7
C 117307	6	2097	5	149	1.1	10	12	1262	5.21	<2	<8	<2	8	256	.2	<3	<3	273	1.78	.262	34	32	.23	43	.09	8	1.53	.38	.24	5	175	4	7
C 117308	4	1803	7	143	.9	7	11	1041	4.01	<2	<8	<2	6	173	.2	<3	<3	187	1.30	.119	16	37	.22	42	.10	3	1.12	.34	.21	4	336	3	8
C 117309	6	873	6	99	.6	15	11	837	3.28	2	<8	<2	4	213	<.2	<3	3	137	1.79	.181	15	61	.71	122	.10	<3	.79	.06	.51	4	31	86	9
C 117310	2	693	18	156	<.3	10	15	1054	5.87	2	<8	<2	12	169	<.2	<3	<3	341	2.32	.365	34	35	.74	57	.08	7	.88	.04	.46	3	11	3	3
RE C 117310	2	686	18	156	.5	10	16	1048	5.83	4	<8	<2	12	169	.2	<3	<3	341	2.30	.365	33	33	.74	57	.08	6	.86	.05	.46	4	12	5	3
RRE C 117310	<1	679	22	160	.3	11	16	1083	6.08	4	<8	<2	13	174	<.2	<3	4	353	2.39	.382	35	33	.75	60	.09	7	.89	.05	.47	4	11	2	3
C 117311	3	618	6	96	.4	6	8	740	2.16	2	8	<2	4	170	.5	<3	<3	91	1.97	.121	12	33	.54	162	.06	<3	.63	.04	.38	3	17	3	2
C 117312	1	174	5	225	<.3	15	23	2052	8.85	3	<8	<2	14	182	<.2	<3	<3	494	3.87	.400	42	25	.91	117	.08	13	1.11	.05	.33	<2	23	10	14
C 117313	5	93	<3	282	<.3	17	26	1410	11.95	4	<8	<2	14	188	<.2	<3	<3	735	2.15	.383	40	27	.55	41	.10	12	.99	.05	.22	<2	8	3	2
C 117314	3	128	3	220	<.3	16	24	1296	10.81	3	<8	<2	13	177	<.2	<3	<3	688	2.12	.392	39	26	.56	38	.10	13	.98	.06	.27	<2	10	<2	5
C 117315	2	62	<3	179	<.3	15	22	1197	9.98	7	<8	<2	21	191	<.2	<3	<3	596	2.64	.594	57	23	.48	28	.08	15	1.06	.05	.18	4	3	2	7
C 117316	4	85	<3	203	<.3	13	20	1085	7.54	7	<8	<2	16	227	<.2	<3	<3	439	2.76	.468	42	26	.64	28	.08	11	1.14	.05	.18	<2	<2	3	3
C 117317	2	80	<3	201	<.3	19	27	1371	12.49	20	<8	<2	42	206	<.2	<3	6	815	3.97	1.076	97	22	.44	27	.07	8	1.15	.06	.19	<2	3	5	5
C 117318	2	23	<3	200	<.3	19	27	1415	12.41	12	<8	<2	25	195	<.2	<3	5	729	3.00	.653	63	23	.43	24	.09	10	1.19	.06	.18	4	2	5	5
C 117319	4	28	<3	221	<.3	23	33	1805	15.43	4	<8	<2	8	156	<.2	<3	4	890	1.82	.226	23	20	.56	47	.13	7	.92	.05	.27	<2	6	<2	3
C 117320	2	44	<3	218	<.3	24	31	1804	14.87	7	<8	<2	12	162	.2	<3	8	854	1.93	.293	30	19	.53	22	.12	8	1.00	.06	.17	<2	2	3	9
C 117321	3	38	<3	233	<.3	23	32	1625	15.16	3	<8	<2	7	134	<.2	<3	<3	857	1.46	.204	21	24	.48	27	.14	11	.92	.05	.17	<2	10	2	4
C 117322	1	59	4	319	<.3	23	26	1463	12.19	<2	<8	<2	2	149	<.2	<3	<3	646	1.27	.053	7	22	.69	32	.18	13	1.00	.05	.29	<2	6	2	2
RE C 117322	2	60	<3	320	<.3	22	26	1473	12.07	<2	8	<2	2	148	<.2	<3	<3	638	1.26	.053	7	22	.68	32	.19	14	.99	.05	.29	<2	4	3	3
RRE C 117322	4	56	<3	311	<.3	20	27	1495	12.14	<2	<8	<2	2	152	.2	<3	<3	646	1.29	.055	7	23	.68	31	.19	14	1.01	.05	.29	<2	<2	3	2
C 117323	5	71	6	101	<.3	6	7	633	1.15	<2	<8	<2	<2	233	<.2	<3	<3	39	1.92	.012	4	21	.85	39	.07	3	1.10	.06	.35	4	<2	<2	3
C 117324	9	586	7	79	<.3	16	14	756	2.90	<2	<8	<2	3	254	.2	<3	<3	101	3.00	.136	11	47	.74	266	.08	<3	.84	.06	.56	2	10	4	11
C 117325	4	338	10	45	<.3	12	7	453	1.96	<2	<8	<2	2	157	<.2	<3	<3	70	1.21	.067	7	37	.41	139	.07	5	.47	.06	.39	3	5	3	2
C 117326	4	4697	11	193	3.8	15	17	1173	5.37	3	<8	<2	4	162	.5	<3	<3	274	1.41	.254	21	47	.61	122	.12	6	.75	.05	.44	5	372	4	11
C 117327	2	1279	6	138	.7	26	20	1189	4.46	3	<8	<2	7	221	<.2	<3	<3	176	2.61	.246	19	62	1.33	139	.16	4	1.19	.05	.82	5	120	6	14
C 117328	5	4645	10	157	4.5	9	12	1003	4.04	2	<8	<2	6	187	.4	<3	<3	206	1.76	.242	22	39	.51	144	.10	<3	.67	.05	.40	4	449	8	28
C 117329	11	4578	12	138	4.4	11	12	910	4.11	4	<8	<2	5	166	.6	<3	<3	202	1.95	.265	22	43	.54	110	.10	5	.73	.05	.38	4	586	9	20
STANDARD C3/FA-10R	26	67	34	166	5.9	37	11	781	3.40	56	21	3	19	29	23.5	16	23	82	.57	.087	19	170	.61	148	.10	18	1.86	.04	.16	20	502	465	493
STANDARD G-2	2	4	<3	41	<.3	8	4	551	2.03	<2	<8	<2	3	71	<.2	<3	<3	39	.66	.095	7	82	.63	228	.15	3	.93	.07	.47	3	-	-	-

2001-51

2001-52

Sample type: CORE R150 60C. 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 ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117330	3	166	8	75	<.3	59	19	799	3.85	2	<8	<2	5	177	<.2	<3	<3	130	1.37	.165	13	132	1.60	174	.21	6	1.47	.07	1.21	2	5	3	2
C 117331	3	133	8	54	<.3	29	13	693	3.24	2	<8	<2	4	222	<.2	<3	<3	121	2.12	.122	12	77	.99	276	.17	5	.96	.09	.73	2	7	<2	<2
C 117332	3	153	3	73	<.3	41	21	965	5.17	<2	<8	<2	3	267	<.2	<3	<3	196	2.80	.240	14	82	1.61	451	.21	5	1.42	.06	1.10	2	5	3	7
C 117333	3	85	4	59	<.3	13	16	793	5.29	<2	<8	<2	3	218	<.2	<3	<3	225	2.63	.146	9	42	1.34	183	.18	<3	1.39	.06	.94	<2	9	<2	4
C 117334	2	74	3	64	<.3	15	16	781	4.73	2	<8	<2	3	218	<.2	<3	<3	201	1.95	.187	11	45	1.15	241	.17	<3	1.18	.06	.81	<2	5	3	8
C 117335	4	393	<3	60	<.3	15	14	685	4.62	<2	<8	<2	3	229	<.2	<3	<3	225	2.32	.245	12	70	.84	183	.13	<3	1.02	.05	.68	<2	7	4	7
C 117336	4	557	15	89	3.2	21	19	848	4.96	<2	<8	<2	3	194	.5	<3	<3	224	2.39	.179	10	63	1.58	197	.22	3	1.53	.06	1.15	2	121	3	6
C 117337	3	250	3	62	<.3	14	17	841	5.67	<2	8	<2	3	174	<.2	<3	<3	282	2.19	.192	10	49	1.55	190	.22	4	1.42	.06	1.12	<2	36	2	8
C 117338	4	599	7	73	1.0	22	26	1106	6.69	<2	<8	<2	2	338	.4	<3	<3	300	4.41	.176	10	71	1.56	159	.16	<3	1.25	.05	.94	<2	131	<2	10
C 117339	5	454	5	57	<.3	12	14	747	4.24	<2	<8	<2	2	189	<.2	<3	<3	181	2.56	.177	11	41	1.21	161	.17	<3	1.18	.05	.78	<2	33	3	5
C 117340	9	148	6	76	<.3	11	14	867	4.15	<2	<8	<2	3	215	.3	<3	<3	163	3.01	.128	8	35	1.28	145	.15	<3	1.28	.04	.91	2	23	3	7
C 117341	2	14	5	91	<.3	51	35	1080	7.74	<2	<8	<2	3	144	<.2	<3	<3	267	2.86	.525	28	61	1.79	76	.10	<3	1.57	.05	1.09	<2	<2	3	<2
C 117342	3	38	3	70	<.3	19	22	921	6.83	<2	<8	<2	2	199	<.2	<3	<3	251	1.89	.156	9	52	1.35	187	.19	<3	1.47	.05	1.08	2	6	7	28
C 117343	4	300	5	76	<.3	21	17	872	5.48	<2	<8	<2	2	204	<.2	<3	<3	266	1.38	.152	9	69	1.81	191	.27	<3	1.84	.07	1.46	2	7	2	11
C 117344	2	84	<3	58	<.3	13	12	662	4.24	<2	<8	<2	3	400	<.2	<3	<3	204	1.68	.197	12	45	.98	107	.15	<3	1.45	.12	.72	2	<2	2	10
RE C 117344	3	81	6	56	<.3	13	12	643	4.13	<2	<8	<2	3	390	<.2	<3	<3	197	1.64	.189	12	43	.95	104	.15	<3	1.41	.12	.70	<2	2	2	11
RRE C 117344	3	87	5	56	<.3	12	13	657	4.17	<2	8	<2	3	384	<.2	<3	<3	201	1.69	.196	12	44	1.00	103	.15	<3	1.42	.11	.72	<2	<2	<2	8
C 117345	2	143	4	69	<.3	15	17	858	4.66	<2	9	<2	2	389	<.2	<3	<3	205	2.17	.159	10	40	1.26	159	.18	<3	1.71	.12	.97	2	13	3	10
C 117346	2	178	3	64	<.3	11	15	734	4.77	<2	<8	<2	2	535	<.2	<3	<3	218	1.64	.205	12	46	.86	134	.15	<3	1.94	.23	.68	2	3	3	9
C 117347	3	190	6	81	<.3	18	18	993	4.80	<2	9	<2	3	378	<.2	<3	<3	216	2.85	.234	14	56	1.24	196	.15	<3	1.65	.14	.70	3	4	6	12
C 117348	2	126	4	90	<.3	20	21	1140	5.22	<2	8	<2	2	373	<.2	<3	<3	230	3.25	.269	14	61	1.55	227	.16	<3	1.79	.14	.77	2	5	6	19
STANDARD C3/FA-10R	26	66	37	167	5.9	38	11	792	3.44	54	19	3	20	30	23.9	15	23	83	.60	.092	20	172	.65	156	.10	17	1.95	.04	.16	19	490	478	479
STANDARD G-2	2	4	4	44	.3	9	4	550	2.04	<2	<8	<2	4	72	<.2	<3	<3	43	.68	.099	8	83	.65	235	.15	4	.96	.07	.48	3	-	-	-

2001-52

Sample type: CORE R150 60C. 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 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Eastfield Resources Ltd. File # A103069 Page 1

110 - 325 Howe St., Vancouver BC V6C 1Z7 Submitted by: Jay W. Page

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117001	3	3064	12	82	1.9	12	14	681	3.62	4	<8	<2	4	131	.3	<3	4	209	.52	.167	10	23	.70	183	.14	3	.87	.05	.66	3	163	4	5
C 117002	3	2641	14	94	1.4	12	17	837	4.08	4	<8	<2	3	146	.4	<3	4	224	.69	.170	10	24	.77	177	.14	<3	1.03	.06	.63	3	103	<2	4
C 117003	3	1199	11	106	.5	14	19	918	4.40	<2	<8	<2	3	146	.4	<3	<3	226	.65	.155	10	22	.82	196	.14	6	.94	.05	.66	3	39	<2	4
C 117004	2	1121	4	100	1.0	8	8	507	2.77	<2	<8	<2	2	144	.4	<3	<3	146	.26	.025	6	25	.20	259	.07	<3	.47	.05	.38	3	170	4	3
C 117005	2	1437	3	69	1.1	9	12	595	2.57	2	<8	<2	<2	132	.4	<3	<3	127	.47	.106	7	20	.77	205	.16	3	.93	.05	.86	2	49	2	3
C 117006	1	527	7	70	<.3	11	12	697	2.97	3	<8	<2	<2	223	.2	<3	<3	130	1.48	.140	9	31	.77	131	.09	<3	1.02	.04	.35	2	50	3	6
C 117007	2	1241	6	78	.5	53	24	902	3.67	2	<8	<2	2	210	.3	<3	<3	133	1.64	.170	11	125	1.68	181	.19	<3	1.48	.06	1.18	3	94	4	7
C 117008	2	22	3	79	<.3	110	34	862	4.32	<2	<8	<2	2	174	<.2	<3	<3	139	1.12	.127	9	261	2.80	262	.27	<3	2.01	.06	1.94	2	2	6	<2
C 117009	1	652	<3	79	<.3	124	36	922	4.57	3	<8	<2	2	176	.2	<3	<3	139	1.48	.144	10	296	3.03	328	.25	<3	2.10	.06	2.06	2	20	7	2
C 117010	3	8348	19	72	5.5	14	14	479	2.46	3	<8	<2	2	108	.8	<3	<3	117	1.03	.208	12	19	.68	76	.16	3	.81	.06	.71	3	195	3	3
RE C 117010	2	8410	19	71	5.6	13	14	480	2.47	4	<8	<2	2	107	.8	<3	<3	118	1.04	.208	11	20	.68	74	.16	<3	.80	.05	.70	3	192	<2	3
RRE C 117010	2	8446	21	71	5.8	13	14	476	2.44	3	<8	<2	2	105	.8	<3	3	117	1.02	.207	11	16	.67	73	.16	<3	.79	.05	.70	3	202	<2	3
C 117011	1	15410	11	157	10.0	18	36	901	6.23	3	<8	<2	8	95	1.8	<3	6	440	2.23	.558	43	16	.62	60	.06	<3	.73	.04	.55	7	364	<2	4
C 117012	<1	15631	10	125	11.5	16	17	726	3.77	2	<8	<2	4	80	1.6	<3	4	211	1.36	.247	15	19	.58	69	.14	4	.68	.04	.62	6	1114	7	11
C 117013	2	11086	10	112	8.6	17	17	787	3.39	9	<8	<2	3	119	1.3	<3	<3	181	1.34	.162	11	25	.71	87	.16	<3	.87	.04	.77	4	778	7	7
C 117014	2	6449	4	82	3.7	9	13	423	2.87	95	<8	<2	3	144	.7	<3	<3	157	.67	.127	9	17	.52	73	.10	<3	.79	.04	.62	3	249	4	3
C 117015	1	6706	3	87	3.7	10	14	312	2.54	90	<8	<2	4	144	.7	<3	<3	134	.44	.159	9	14	.49	61	.08	<3	.76	.03	.58	3	313	<2	2
C 117016	2	6881	8	87	5.0	8	14	222	2.67	95	8	<2	5	184	.9	<3	<3	103	.63	.244	14	17	.42	67	.06	<3	.77	.03	.49	4	215	<2	3
C 117017	1	7364	3	81	4.4	9	12	382	2.35	24	8	<2	4	148	1.0	<3	4	94	.92	.147	8	17	.51	230	.10	4	.79	.04	.61	4	139	<2	3
C 117018	2	4797	4	96	3.2	11	17	735	3.34	10	<8	<2	3	112	.5	<3	<3	195	.94	.111	6	26	.92	121	.23	<3	1.01	.05	.97	3	152	2	3
C 117019	2	9421	8	112	8.2	12	18	735	2.77	152	<8	<2	2	138	1.3	<3	<3	140	1.16	.111	7	18	.89	108	.15	<3	1.08	.03	.95	4	235	<2	3
C 117020	3	4688	<3	101	2.9	6	12	573	1.60	4	<8	<2	3	198	.8	<3	<3	105	2.27	.220	11	17	.56	176	.08	3	1.04	.03	.49	3	247	3	5
C 117021	4	9669	7	103	9.1	9	14	680	2.26	13	9	<2	4	173	1.5	<3	<3	112	1.89	.134	9	16	.54	115	.07	<3	.85	.03	.62	4	339	2	3
C 117022	1	9269	6	124	7.2	11	19	747	2.81	26	<8	<2	3	138	1.3	<3	<3	157	1.12	.130	8	15	1.26	90	.19	<3	1.28	.04	1.26	4	707	<2	3
RE C 117022	2	8974	8	121	6.9	10	18	722	2.72	26	<8	<2	4	132	1.1	<3	4	154	1.08	.127	8	14	1.22	86	.18	3	1.25	.04	1.22	5	704	4	4
RRE C 117022	2	8923	<3	120	6.8	11	18	726	2.73	25	<8	<2	3	136	1.2	<3	<3	152	1.09	.128	7	18	1.22	89	.18	<3	1.26	.04	1.23	5	667	2	3
C 117023	2	7098	6	171	4.4	8	20	759	2.83	6	<8	<2	2	121	1.4	<3	<3	168	1.06	.111	7	19	.85	112	.16	<3	1.16	.04	.84	4	173	2	4
C 117024	2	6996	13	87	5.2	13	18	665	2.76	5	<8	<2	3	197	.7	<3	<3	147	1.73	.211	12	25	.75	163	.12	<3	1.02	.04	.53	3	214	4	4
C 117025	<1	6945	15	143	4.7	61	40	1358	8.78	3	<8	<2	4	205	1.1	<3	<3	513	1.85	.157	9	110	2.02	238	.36	4	1.69	.07	1.52	4	259	9	22
C 117026	5	4771	22	121	5.1	12	11	627	2.66	2	<8	<2	2	137	1.3	<3	<3	127	1.20	.103	7	24	.48	194	.09	<3	.71	.03	.46	4	505	8	9
C 117027	2	4841	6	128	3.2	11	14	711	3.65	4	<8	<2	4	124	.5	<3	<3	212	1.48	.301	18	20	.43	77	.09	<3	.65	.04	.32	3	277	5	5
C 117028	1	9274	6	107	6.6	14	11	532	2.84	3	<8	<2	3	110	1.2	<3	4	164	.90	.084	6	21	.40	87	.14	3	.67	.05	.37	3	519	7	7
C 117029	2	5147	9	93	3.6	10	9	526	2.37	3	<8	<2	<2	132	.6	<3	6	126	1.07	.085	6	17	.42	75	.10	<3	.71	.04	.43	2	98	3	3
STANDARD DS3/FA-10R	9	123	34	157	<.3	38	12	825	3.18	30	<8	<2	4	28	5.7	4	8	78	.54	.094	18	191	.61	152	.09	<3	1.76	.04	.17	6	486	491	481

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GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE R150 60C AU** PT** PD** GROUP 3B BY FIRE ASSAY & ANALYSIS BY ICP-ES. (30 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 7 2001 **DATE REPORT MAILED:** Sept 19/01 **SIGNED BY** C. Leong ..D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only. 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 ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117030	1	3315	4	93	1.7	21	11	807	2.49	15	<8	<2	2	168	.5	<3	<3	107	1.81	.073	8	53	.54	58	.07	<3	.72	.04	.40	3	123	2	4
C 117031	2	3014	11	86	2.0	11	9	498	2.45	2	<8	<2	<2	138	.4	<3	<3	133	.88	.077	5	30	.56	87	.13	5	.77	.04	.44	2	82	<2	3
C 117032	2	2565	8	58	2.1	7	7	419	1.63	3	<8	<2	<2	146	.4	<3	<3	72	1.05	.071	5	20	.43	212	.10	<3	.60	.04	.46	<2	57	3	3
C 117033	2	3568	7	72	2.7	9	9	690	2.05	20	<8	<2	<2	213	.6	<3	4	89	1.58	.112	8	24	.45	123	.07	<3	.63	.04	.42	2	145	4	5
C 117034	1	3647	6	80	2.9	16	10	1088	2.43	24	<8	<2	2	387	.4	<3	<3	114	2.74	.190	13	51	.62	172	.08	<3	.75	.03	.60	3	45	6	19
C 117035	1	3829	11	131	2.8	29	21	1164	3.97	9	<8	<2	3	312	.6	<3	5	199	2.25	.314	19	58	1.29	249	.12	3	1.33	.04	1.01	4	128	<2	7
C 117036	2	4036	5	81	2.0	15	9	674	2.52	6	<8	<2	2	162	.3	<3	<3	126	1.34	.103	8	51	.46	96	.10	<3	.63	.03	.44	3	89	4	3
C 117037	1	3623	9	64	1.8	10	6	413	1.71	3	<8	<2	2	115	.4	<3	<3	97	.87	.056	7	34	.30	89	.08	<3	.43	.04	.33	<2	125	<2	2
C 117038	2	5015	4	57	2.7	8	4	272	1.08	4	<8	<2	3	95	.3	<3	<3	44	.70	.054	11	30	.19	107	.04	<3	.32	.04	.32	2	110	<2	5
C 117039	2	5992	4	58	4.5	9	7	425	1.48	4	<8	<2	4	83	.5	<3	<3	82	.96	.096	9	47	.41	101	.08	3	.46	.05	.48	<2	198	<2	<2
C 117040	2	4098	<3	99	2.0	11	13	661	2.88	2	<8	<2	2	102	.4	<3	3	157	1.24	.050	6	30	.97	113	.17	<3	.89	.04	.85	2	110	<2	3
RE C 117040	2	4121	5	100	1.9	10	12	664	2.87	3	<8	<2	2	103	.5	<3	4	158	1.25	.051	5	29	.97	114	.17	4	.90	.04	.86	3	112	2	3
RRE C 117040	2	4077	4	103	1.7	11	13	673	2.94	2	<8	<2	2	108	.6	<3	<3	159	1.25	.054	6	19	1.00	123	.18	<3	.95	.05	.91	3	102	5	3
C 117041	1	3292	7	124	1.1	11	17	663	3.72	3	<8	<2	2	105	.7	<3	5	183	1.26	.107	6	16	1.31	114	.24	<3	1.18	.06	1.14	4	74	2	4
C 117042	2	4048	11	93	2.0	9	13	644	2.73	4	<8	<2	2	108	.6	<3	<3	138	1.24	.112	7	23	1.01	93	.20	<3	.91	.05	.93	2	108	2	4
C 117043	1	4222	7	92	1.9	8	13	634	2.51	3	<8	<2	3	100	.6	<3	<3	113	1.11	.094	5	20	1.06	83	.22	<3	.93	.05	.94	3	143	2	5
C 117044	1	2212	14	152	1.0	7	14	743	3.10	4	<8	<2	3	106	.8	<3	3	155	1.29	.091	5	19	.97	113	.18	6	.97	.05	.86	4	86	3	3
C 117045	2	457	5	58	.8	7	7	472	2.19	2	<8	<2	4	147	.2	<3	<3	104	.99	.076	5	15	.39	346	.08	<3	.54	.04	.49	2	85	<2	<2
C 117046	2	871	6	65	.5	6	7	412	2.25	2	<8	<2	2	121	.2	<3	<3	126	.94	.052	4	17	.37	104	.10	<3	.55	.04	.42	<2	30	2	4
C 117047	3	888	6	38	.3	6	8	280	1.52	<2	<8	<2	<2	126	.2	<3	<3	62	.59	.026	3	30	.31	91	.09	3	.46	.05	.40	<2	16	2	8
C 117048	13	496	4	20	<.3	3	4	192	.85	<2	<8	<2	3	77	<.2	<3	<3	35	.49	.012	4	22	.22	111	.12	<3	.33	.04	.36	<2	8	<2	<2
C 117049	1	334	4	35	.3	4	4	497	1.04	<2	<8	<2	2	102	<.2	<3	<3	50	1.34	.011	3	24	.35	118	.08	<3	.42	.04	.38	<2	8	<2	<2
C 117050	<1	275	4	70	<.3	13	10	552	2.72	2	<8	<2	<2	126	<.2	<3	<3	136	1.11	.061	4	38	.72	89	.12	<3	.85	.05	.59	2	10	<2	3
C 117051	<1	1482	5	90	<.3	11	13	583	3.57	3	<8	<2	2	99	.4	<3	4	228	.49	.120	4	22	1.12	173	.29	<3	1.24	.06	1.28	2	37	4	5
C 117052	1	1528	6	22	1.5	6	6	204	1.23	<2	<8	<2	2	133	.2	<3	<3	52	.42	.025	4	25	.35	277	.12	3	.47	.06	.51	<2	94	<2	<2
RE C 117052	1	1434	4	21	1.3	6	5	190	1.13	<2	<8	<2	<2	126	.2	<3	<3	47	.40	.023	4	24	.32	261	.12	<3	.44	.05	.47	<2	90	4	2
RRE C 117052	1	1567	4	22	1.3	7	6	198	1.20	<2	9	<2	2	132	<.2	<3	<3	50	.41	.024	4	21	.34	276	.12	<3	.46	.06	.50	<2	91	<2	2
C 117053	1	2978	6	77	1.4	132	42	763	4.86	3	<8	<2	<2	193	.4	<3	<3	151	1.01	.161	9	299	3.27	415	.37	<3	2.24	.06	2.38	2	107	9	23
C 117054	1	1089	<3	73	<.3	143	47	750	4.96	<2	<8	<2	<2	148	.3	<3	4	160	1.06	.123	7	322	3.30	408	.34	4	2.25	.06	2.41	2	13	11	6
C 117055	2	1690	5	81	.8	155	44	830	4.78	<2	<8	<2	<2	78	.4	<3	3	175	1.15	.141	7	372	3.61	639	.45	<3	2.58	.06	2.72	2	52	14	15
C 117056	1	999	<3	89	<.3	97	45	911	5.60	2	<8	<2	2	151	.3	<3	<3	202	1.33	.274	16	210	3.02	876	.26	<3	2.32	.06	2.36	3	41	7	9
C 117057	1	2460	3	110	1.2	103	42	979	5.38	3	<8	<2	<2	138	.9	<3	<3	224	1.54	.229	14	254	3.04	755	.28	<3	2.36	.06	2.45	3	65	7	14
C 117058	1	1646	5	128	1.0	148	39	1026	4.75	2	<8	<2	<2	56	.9	<3	3	209	.86	.182	8	343	3.30	522	.42	5	2.52	.06	2.63	2	51	14	14
C 117059	1	10167	9	192	9.6	92	31	541	4.00	2	<8	<2	<2	94	4.2	<3	4	136	.92	.210	9	137	.64	149	.11	4	.57	.06	.49	2	423	5	10
STANDARD DS3/FA-10R	9	121	37	153	<.3	37	12	808	3.12	31	<8	<2	3	27	5.8	4	8	77	.53	.093	17	195	.59	151	.09	<3	1.71	.04	.17	6	496	480	496

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Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data L FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117060	1	11558	9	301	10.1	76	61	1542	8.48	<2	<8	<2	<2	186	4.1	<3	<3	482	2.16	.376	20	133	3.64	127	.18	5	3.11	.07	2.93	2	378	6	19
C 117061	2	1686	6	101	1.4	99	47	823	6.73	<2	<8	<2	<2	188	.5	<3	<3	271	2.46	.349	20	239	2.74	952	.08	<3	1.94	.08	1.91	3	53	15	36
C 117062	1	5181	8	95	4.4	115	53	800	6.30	<2	<8	<2	<2	141	.8	<3	<3	265	1.75	.335	19	235	3.11	1034	.17	<3	2.38	.08	2.38	3	134	5	37
C 117063	1	36	<3	66	<.3	103	43	677	5.40	<2	<8	<2	<2	138	<.2	<3	<3	183	1.71	.274	14	262	2.76	787	.12	3	1.94	.06	2.05	<2	7	13	8
C 117064	1	18	<3	77	<.3	95	43	758	5.59	2	<8	<2	<2	130	<.2	<3	<3	212	1.55	.281	15	239	2.68	762	.15	<3	1.97	.07	2.08	<2	3	9	3
C 117065	1	1810	4	95	1.1	19	25	897	3.94	4	<8	<2	2	574	.2	<3	<3	146	1.90	.246	12	23	1.39	1762	.13	<3	1.29	.07	.69	3	69	4	12
C 117066	1	186	<3	81	<.3	62	39	797	6.38	2	<8	<2	<2	139	.2	<3	<3	275	1.84	.338	17	166	1.92	385	.09	<3	1.43	.06	1.41	2	11	9	20
C 117067	3	1518	<3	82	.9	59	41	926	6.42	3	<8	<2	<2	252	.5	<3	<3	265	3.35	.271	16	151	2.47	735	.11	<3	1.78	.06	1.86	2	10	8	21
C 117068	3	177	<3	72	<.3	55	33	777	5.79	<2	<8	<2	<2	146	.2	<3	<3	237	1.80	.287	13	124	1.60	461	.14	<3	1.20	.06	1.09	<2	8	12	8
RE C 117068	2	174	4	72	<.3	55	33	778	5.81	<2	<8	<2	<2	146	<.2	<3	<3	238	1.81	.295	12	126	1.61	461	.15	<3	1.21	.06	1.09	2	7	7	5
RRE C 117068	1	167	3	72	<.3	56	33	779	5.80	2	<8	<2	<2	147	.2	<3	<3	237	1.81	.286	13	128	1.61	446	.14	<3	1.20	.06	1.09	2	5	5	4
C 117069	3	2301	7	47	1.6	41	25	560	2.80	4	<8	<2	<2	219	.2	<3	<3	102	1.73	.290	14	110	1.65	398	.18	<3	1.39	.07	1.24	<2	110	9	23
C 117070	2	52	<3	65	<.3	62	31	677	5.15	2	<8	<2	<2	82	<.2	<3	<3	191	1.12	.140	6	186	1.52	228	.22	<3	1.11	.06	1.06	2	4	9	6
C 117071	1	390	<3	72	<.3	58	36	730	6.37	<2	<8	<2	<2	158	<.2	<3	<3	264	1.14	.217	9	127	1.55	297	.21	<3	1.18	.05	1.17	2	6	3	5
C 117101	8	244	6	28	.6	42	16	467	3.06	3	<8	<2	<2	571	.2	<3	<3	118	2.26	.172	8	153	.66	723	.10	<3	3.29	.91	.48	2	6	2	4
C 117102	3	261	12	71	<.3	58	35	800	6.30	2	<8	<2	<2	390	.3	<3	<3	263	2.24	.361	18	132	1.61	798	.14	<3	2.23	.29	1.16	2	7	4	13
C 117103	1	426	3	69	<.3	74	35	841	5.29	2	<8	<2	<2	151	<.2	<3	3	210	2.24	.296	13	152	1.87	582	.14	<3	1.45	.06	1.35	2	10	4	3
C 117104	<1	24	5	99	<.3	56	49	1191	7.90	<2	<8	<2	<2	307	.4	<3	<3	330	3.27	.418	21	105	2.64	1840	.07	<3	2.17	.07	1.63	3	3	5	4
C 117105	2	121	12	79	<.3	31	20	700	4.01	5	<8	<2	<2	1309	.2	<3	<3	163	2.24	.292	14	79	.91	376	.12	<3	1.99	.20	.61	3	3	2	3
C 117106	2	128	<3	105	<.3	36	33	1221	5.47	2	<8	<2	<2	243	.4	<3	<3	207	2.73	.373	19	57	1.99	411	.15	<3	1.73	.06	1.12	3	6	<2	3
C 117107	2	2836	12	72	2.1	8	9	596	2.46	<2	<8	<2	2	95	.4	<3	<3	149	.92	.070	8	36	.48	81	.12	<3	.65	.05	.30	2	84	<2	5
C 117108	1	2520	13	61	2.0	7	8	523	2.05	4	<8	<2	5	112	.5	<3	<3	108	1.31	.264	17	53	.56	93	.13	<3	.76	.05	.42	2	384	5	5
C 117109	1	1662	10	71	1.0	8	10	652	2.84	3	<8	<2	3	88	.3	<3	<3	163	1.26	.210	13	48	.70	73	.13	<3	.78	.05	.43	2	178	2	2
C 117110	2	1282	8	72	.9	6	9	647	2.07	2	<8	<2	3	131	.3	<3	<3	114	1.63	.194	13	52	.66	63	.12	<3	.77	.04	.30	2	74	3	4
C 117111	1	1293	5	46	.9	6	7	427	1.42	<2	<8	<2	2	120	.3	<3	<3	70	.99	.127	10	36	.53	79	.13	<3	.68	.05	.34	<2	53	<2	2
C 117112	2	973	8	55	.8	6	9	740	1.65	2	<8	<2	2	121	.2	<3	<3	68	2.61	.058	9	22	.48	66	.07	<3	.75	.04	.27	2	66	2	2
RE C 117112	3	985	8	55	.8	6	9	743	1.67	2	<8	<2	<2	123	.2	<3	<3	68	2.61	.059	9	23	.48	67	.07	<3	.76	.04	.27	3	61	2	<2
RRE C 117112	3	954	6	54	.6	5	8	722	1.65	<2	<8	<2	2	119	.3	<3	<3	67	2.54	.057	8	20	.46	64	.06	<3	.73	.04	.26	2	64	<2	2
C 117113	2	497	9	74	<.3	7	11	878	2.51	3	<8	<2	3	157	.2	<3	<3	128	2.56	.116	8	16	.50	68	.06	<3	.79	.04	.22	3	35	<2	6
C 117114	2	286	5	142	<.3	12	24	1435	6.94	7	<8	<2	6	217	.3	<3	<3	463	2.40	.369	19	11	.59	72	.10	<3	.98	.05	.29	3	10	20	5
C 117115	2	216	5	109	<.3	9	15	1140	4.98	3	<8	<2	4	270	<.2	<3	<3	310	1.79	.213	12	19	.46	80	.08	<3	.90	.05	.25	3	13	<2	4
C 117116	2	296	<3	43	<.3	6	10	678	2.75	2	<8	<2	4	291	<.2	<3	<3	143	1.44	.152	9	17	.24	69	.06	<3	.53	.04	.22	<2	4	<2	<2
C 117117	2	1229	6	72	.5	8	13	794	3.74	<2	<8	<2	4	173	.2	<3	<3	203	1.53	.196	10	23	.62	86	.12	<3	.91	.05	.41	2	51	<2	8
C 117118	2	273	<3	93	<.3	9	15	931	4.31	2	<8	<2	6	165	.2	<3	<3	220	1.69	.225	13	21	.51	80	.11	<3	.88	.06	.29	2	7	<2	3
STANDARD DS3/FA-10R	8	119	37	153	.3	36	12	807	3.12	30	11	<2	4	28	5.5	4	7	76	.54	.093	18	191	.59	148	.09	4	1.72	.04	.17	6	484	480	478

2001-48

2001-49

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data d FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117119	1	286	6	101	<.3	9	19	1128	5.14	2	<8	<2	5	114	.2	<3	<3	254	2.03	.232	13	22	.88	62	.08	<3	1.06	.04	.28	2	2	5	6
C 117120	2	467	3	133	<.3	10	20	1558	5.99	3	<8	<2	4	145	.3	<3	<3	283	3.30	.207	15	23	.74	76	.03	<3	1.12	.03	.28	4	33	<2	4
C 117121	1	850	7	133	<.3	11	18	1284	5.54	4	12	<2	6	165	.3	<3	<3	254	2.76	.433	25	22	.50	58	.05	<3	.97	.05	.27	4	36	<2	2
C 117122	1	4169	7	58	2.4	6	10	875	2.69	6	<8	<2	8	136	.4	<3	<3	129	2.95	.362	30	23	.43	67	.02	3	.74	.04	.26	2	447	5	20
C 117123	3	778	10	64	.5	6	11	1428	2.68	4	<8	<2	3	177	.3	<3	<3	105	4.48	.135	12	18	.45	56	.03	<3	.80	.03	.24	2	52	4	5
C 117124	2	751	7	79	.3	6	12	772	3.29	4	<8	<2	4	225	.3	<3	<3	132	1.85	.165	11	26	.60	64	.11	3	.93	.06	.21	2	17	2	<2
C 117125	2	237	5	64	<.3	6	10	608	3.24	<2	<8	<2	2	213	.2	<3	<3	127	1.07	.074	6	24	.48	77	.12	<3	.85	.07	.22	3	4	<2	2
C 117126	3	919	9	45	<.3	4	9	501	2.33	<2	<8	<2	<2	145	.2	<3	<3	87	1.02	.021	5	33	.30	117	.08	<3	.48	.06	.22	<2	68	5	2
C 117127	2	454	10	48	<.3	5	10	594	2.17	<2	<8	<2	<2	290	<.2	<3	<3	70	1.92	.025	5	12	.53	47	.08	<3	.85	.05	.14	2	15	3	4
C 117128	<1	469	9	39	<.3	5	6	544	1.25	<2	<8	<2	2	663	.3	<3	<3	40	1.90	.014	5	10	.64	107	.08	<3	1.00	.06	.15	2	4	<2	<2
C 117129	2	513	6	45	.6	5	8	723	2.03	<2	<8	<2	2	983	.2	<3	<3	69	2.37	.021	5	18	.52	156	.09	<3	.94	.05	.17	2	56	<2	2
C 117130	4	420	3	26	<.3	4	6	613	1.16	<2	<8	<2	3	520	.2	<3	<3	29	2.78	.032	8	14	.44	95	.02	<3	.89	.05	.20	<2	13	<2	2
RE C 117130	4	435	6	26	<.3	4	7	625	1.19	<2	<8	<2	3	531	.2	<3	<3	30	2.84	.033	8	10	.45	98	.02	<3	.92	.05	.21	2	8	2	4
RRE C 117130	5	438	4	27	<.3	3	7	630	1.18	<2	<8	<2	2	545	.2	<3	<3	28	2.86	.033	8	14	.45	97	.02	<3	.89	.04	.20	<2	11	2	3
C 117131	2	539	3	33	<.3	4	6	545	1.51	<2	<8	<2	3	294	.2	<3	<3	55	2.13	.061	8	11	.39	128	.04	<3	.74	.05	.23	2	23	2	<2
C 117132	2	165	5	40	<.3	5	9	388	2.27	<2	<8	<2	6	322	<.2	<3	<3	84	1.19	.141	11	8	.40	125	.06	<3	.71	.05	.28	2	63	3	<2
C 117133	1	215	9	55	<.3	8	11	526	3.36	2	<8	<2	3	173	.2	<3	<3	143	.90	.054	5	17	.49	73	.15	<3	.76	.07	.29	2	24	3	3
C 117134	2	136	4	34	<.3	4	7	382	1.93	<2	<8	<2	3	215	<.2	<3	<3	71	1.14	.059	6	10	.37	66	.09	<3	.70	.06	.22	<2	15	<2	<2
C 117135	2	867	7	36	.3	5	8	386	2.23	<2	<8	<2	4	199	<.2	<3	<3	91	.89	.042	4	19	.41	66	.09	4	.68	.06	.30	<2	49	2	<2
C 117136	2	197	<3	50	<.3	17	12	541	3.31	2	10	<2	5	142	<.2	<3	<3	135	.87	.123	8	53	.67	71	.14	<3	.90	.07	.52	2	18	<2	2
C 117137	3	304	6	43	<.3	19	11	603	2.82	2	8	<2	3	318	<.2	<3	<3	103	1.29	.075	9	54	.77	77	.14	<3	1.14	.06	.64	2	14	4	5
C 117138	2	116	6	44	<.3	13	9	549	2.62	2	<8	<2	2	180	<.2	<3	<3	91	.89	.074	8	40	.69	47	.12	3	1.00	.07	.59	2	72	<2	4
C 117139	1	66	3	49	<.3	11	8	562	2.66	<2	<8	<2	3	151	<.2	<3	<3	96	.70	.071	6	35	.58	46	.13	3	.84	.07	.57	2	3	6	3
C 117140	2	669	7	62	.4	8	14	651	3.64	<2	<8	<2	3	259	<.2	<3	<3	149	1.21	.130	8	24	.77	64	.15	<3	1.08	.07	.49	2	38	4	4
C 117141	3	460	7	47	.3	12	12	501	2.75	<2	<8	<2	2	162	.2	<3	<3	95	1.49	.127	7	26	.72	85	.12	<3	.95	.07	.50	2	74	<2	6
C 117142	3	345	8	33	<.3	13	9	389	2.45	<2	<8	<2	2	170	.2	<3	<3	81	.89	.058	8	36	.58	52	.13	3	.73	.08	.49	<2	96	<2	<2
RE C 117142	3	348	11	34	<.3	13	9	391	2.46	2	<8	<2	2	172	.3	<3	<3	82	.90	.059	7	34	.58	53	.13	<3	.74	.08	.49	<2	99	2	<2
RRE C 117142	3	348	10	33	.4	13	9	390	2.46	<2	<8	<2	2	172	.2	<3	<3	81	.88	.059	8	28	.58	50	.12	<3	.71	.07	.47	<2	104	3	<2
C 117143	3	170	5	35	<.3	14	8	444	2.51	<2	<8	<2	3	206	<.2	<3	<3	92	.93	.062	9	30	.62	48	.14	<3	.74	.09	.50	2	19	2	2
C 117144	2	179	3	41	<.3	13	10	510	2.72	<2	<8	<2	2	110	<.2	<3	<3	95	1.02	.082	7	30	.61	44	.13	5	.75	.07	.52	<2	15	3	3
C 117145	4	305	6	51	<.3	19	10	650	2.63	<2	<8	<2	2	148	<.2	<3	<3	91	1.13	.081	6	44	.72	44	.12	<3	.90	.08	.62	2	16	4	3
C 117251	1	1352	4	80	.7	9	11	657	3.28	3	<8	<2	2	115	.2	<3	<3	185	.91	.171	12	48	.45	54	.10	<3	.81	.05	.28	2	33	3	2
C 117252	<1	3156	5	52	1.7	9	6	464	1.50	3	<8	<2	2	50	.3	<3	3	98	.52	.074	7	39	.41	56	.10	<3	.47	.05	.32	3	96	5	2
C 117253	1	2482	5	51	1.3	9	7	460	1.31	<2	<8	<2	<2	66	.2	<3	<3	87	.44	.052	6	36	.57	95	.16	<3	.63	.04	.54	2	50	5	<2
STANDARD DS3/FA-10R	9	123	34	155	<.3	37	12	819	3.15	32	<8	<2	4	28	5.7	5	<3	77	.54	.096	17	193	.60	153	.09	<3	1.74	.04	.17	6	498	479	492

2001-49

2001-51

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data K FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117254	3	3293	6	54	2.1	9	6	390	1.12	3	<8	<2	2	93	.4	<3	4	60	.52	.063	7	22	.39	87	.11	4	.70	.05	.40	<2	100	2	<2
C 117255	2	2880	3	40	1.5	7	4	318	1.05	5	<8	<2	2	58	.3	<3	5	73	.54	.081	8	44	.21	51	.09	<3	.36	.04	.23	<2	69	2	2
C 117256	1	3001	7	61	2.0	6	7	434	1.37	2	<8	<2	2	81	.3	<3	<3	87	.77	.074	8	35	.41	84	.14	<3	.73	.07	.41	2	83	2	<2
C 117257	2	3772	6	67	2.3	5	7	481	1.52	5	<8	<2	4	89	.5	<3	<3	100	1.15	.204	14	18	.55	72	.12	4	.92	.06	.41	2	155	5	4
C 117258	2	4177	6	71	2.5	7	8	427	1.32	3	<8	<2	2	107	.7	<3	<3	80	1.12	.143	10	17	.52	75	.12	<3	.88	.07	.36	2	111	4	5
C 117259	1	4688	4	83	3.2	6	7	492	1.37	3	<8	<2	2	88	.6	<3	<3	86	1.02	.128	10	20	.56	52	.13	3	.84	.05	.29	3	136	3	4
C 117260	2	3290	7	33	1.8	3	3	323	.80	<2	<8	<2	4	70	.3	<3	<3	44	.62	.032	12	14	.19	118	.07	3	.41	.05	.39	<2	137	2	<2
C 117261	1	2427	8	34	1.0	4	4	307	.91	<2	<8	<2	3	84	.3	<3	<3	57	.62	.043	9	19	.27	169	.11	3	.51	.06	.50	<2	72	5	3
C 117262	2	2776	7	38	.6	3	3	310	.78	<2	<8	<2	2	89	.4	<3	4	45	.35	.021	9	18	.33	161	.12	3	.51	.06	.50	<2	102	2	<2
C 117263	2	3300	3	23	1.5	3	4	273	.79	<2	<8	<2	3	80	.3	<3	4	35	.31	.027	12	24	.16	139	.04	3	.37	.04	.36	<2	163	4	2
C 117264	2	3835	4	32	2.0	4	5	448	1.20	2	<8	<2	3	70	.2	<3	<3	59	1.40	.089	10	9	.22	153	.02	3	.38	.04	.31	2	227	3	4
RE C 117264	2	3835	3	32	2.2	4	5	448	1.20	4	<8	<2	3	70	.3	<3	3	58	1.40	.090	10	14	.22	152	.02	4	.37	.04	.31	2	225	<2	<2
RRE C 117264	1	3904	6	32	2.1	3	5	457	1.23	2	<8	<2	3	69	.2	<3	3	58	1.40	.086	10	14	.22	148	.02	4	.35	.04	.28	<2	222	3	2
C 117265	1	4382	7	35	2.1	5	6	547	1.35	3	<8	<2	3	62	.2	<3	<3	61	1.39	.044	8	9	.17	97	.03	6	.43	.05	.34	2	358	<2	2
C 117266	3	4954	<3	57	3.0	6	8	732	2.24	3	<8	<2	4	58	.7	<3	3	120	1.60	.092	12	9	.25	74	.05	<3	.63	.04	.28	<2	252	4	2
C 117267	1	69	6	5	<.3	5	1	143	.42	<2	<8	<2	3	16	<.2	<3	<3	11	.28	.001	2	17	.01	39	<.01	3	.16	.07	.14	4	7	<2	<2
C 117268	1	29	<3	6	<.3	2	1	166	.57	<2	<8	<2	4	18	<.2	<3	3	16	.36	.001	2	8	.01	49	.01	3	.17	.07	.12	2	13	<2	<2
C 117269	2	41	<3	5	<.3	5	<1	116	.49	<2	<8	<2	2	18	.2	<3	<3	19	.24	.001	1	17	<.01	56	.01	3	.17	.07	.17	5	26	2	2
C 117270	2	116	<3	7	<.3	2	1	123	.51	<2	<8	<2	<2	13	<.2	<3	<3	19	.24	<.001	2	10	.01	34	<.01	<3	.18	.07	.13	2	18	4	<2
C 117271	2	142	<3	7	<.3	4	1	183	.62	<2	<8	<2	2	26	<.2	<3	<3	30	.46	.001	3	15	.01	167	.01	<3	.21	.08	.16	3	19	<2	<2
C 117272	1	24	<3	5	<.3	1	1	155	.51	<2	<8	<2	3	33	<.2	<3	<3	22	.39	.001	3	32	.01	187	.01	3	.17	.07	.14	<2	14	<2	<2
C 117273	2	266	<3	8	<.3	3	1	139	.53	<2	<8	<2	6	108	<.2	<3	<3	21	.11	.001	2	40	.01	58	.01	3	.22	.08	.15	2	21	<2	<2
C 117274	3	68	<3	9	<.3	2	1	171	.63	2	<8	<2	2	39	<.2	<3	<3	32	.36	.006	2	39	.02	132	.01	<3	.20	.08	.15	3	40	<2	<2
RE C 117274	3	67	<3	8	.5	1	2	168	.62	<2	<8	<2	3	38	.2	<3	<3	32	.35	.006	3	40	.02	131	.01	3	.22	.08	.16	2	45	2	<2
RRE C 117274	2	66	<3	8	<.3	3	2	171	.64	<2	<8	<2	<2	38	<.2	<3	<3	31	.35	.005	2	49	.02	138	<.01	4	.22	.08	.16	4	41	<2	<2
C 117282	3	61	4	12	.3	1	1	169	.54	<2	<8	<2	2	47	<.2	<3	<3	20	.44	.002	2	52	.01	201	.01	5	.18	.08	.15	<2	16	<2	<2
C 117283	2	80	6	6	.4	4	2	196	.67	<2	<8	<2	2	49	<.2	<3	<3	32	.52	.010	3	66	.03	138	.02	6	.18	.08	.17	2	15	<2	<2
C 117284	4	1155	7	77	.7	16	25	1043	4.27	2	<8	<2	3	295	.2	<3	<3	173	2.40	.304	14	37	1.39	734	.15	<3	1.36	.09	1.01	3	47	5	7
C 117285	4	971	9	64	.3	13	27	837	3.28	4	<8	<2	4	832	<.2	<3	<3	131	1.40	.231	11	32	1.20	830	.13	5	1.35	.11	.76	3	58	3	9
C 117286	4	1286	<3	93	.5	28	40	1096	6.25	3	<8	<2	2	327	.4	<3	<3	252	2.13	.376	20	38	2.14	1551	.08	<3	1.77	.07	1.46	3	20	6	23
C 117351	7	378	8	41	<.3	3	3	357	.71	<2	9	<2	3	366	.3	<3	<3	31	1.74	.045	9	11	.20	41	.06	4	2.67	.96	.18	3	16	3	14
C 117352	6	1028	<3	51	.3	3	4	482	.73	2	<8	<2	4	286	.3	<3	<3	38	1.87	.043	12	11	.23	36	.12	6	2.30	.77	.20	2	86	6	20
C 117353	4	1238	17	55	1.0	3	4	489	.65	3	<8	<2	3	259	.4	<3	<3	27	1.31	.039	9	10	.31	48	.07	3	1.81	.73	.29	3	64	6	11
C 117354	5	329	3	35	<.3	2	2	337	.48	2	<8	<2	3	322	.2	<3	<3	23	1.81	.035	9	6	.17	43	.06	5	2.58	.97	.19	2	16	7	15
STANDARD DS3/FA-10R	10	124	33	157	<.3	37	12	823	3.16	32	<8	<2	4	29	5.5	4	6	78	.55	.095	18	192	.60	155	.09	3	1.78	.04	.17	5	485	484	495

2001-51

2001-53

Sample type: CORE R150 60C. 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 ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117355	7	273	5	52	<.3	3	4	497	.67	3	<8	<2	4	499	.2	<3	3	29	2.41	.048	9	6	.33	70	.04	3	3.68	1.45	.13	2	16	2	14
C 117356	3	4532	8	57	3.8	3	6	521	.81	3	<8	<2	4	316	.5	3	<3	26	2.54	.059	10	5	.39	50	.02	<3	2.82	.81	.16	<2	602	11	24
C 117357	3	798	3	61	.8	3	6	740	.96	<2	<8	<2	2	454	.3	<3	<3	33	3.07	.028	6	5	.53	91	.03	<3	2.79	1.00	.16	<2	44	9	35
C 117358	3	526	3	56	<.3	3	6	687	.95	<2	<8	<2	2	425	.2	<3	<3	34	2.30	.058	10	10	.57	87	.03	<3	2.15	.85	.20	<2	25	2	27
C 117359	1	199	<3	56	.4	36	25	715	4.00	3	<8	<2	2	280	<.2	<3	4	158	2.15	.242	14	108	1.31	181	.14	5	1.34	.31	.76	2	8	10	10
C 117360	<1	114	5	59	<.3	29	30	736	5.41	4	<8	<2	<2	320	.2	<3	<3	218	1.82	.315	17	52	1.21	102	.12	<3	1.67	.53	.57	<2	5	8	7
C 117361	<1	36	4	72	<.3	33	38	906	6.75	<2	10	<2	<2	245	<.2	<3	<3	281	2.61	.351	22	47	1.38	98	.11	3	1.11	.13	.65	2	<2	5	5
C 117362	2	89	4	112	.4	40	38	1079	6.02	2	9	<2	<2	220	<.2	<3	<3	238	2.73	.372	25	69	2.15	276	.13	3	1.42	.10	1.16	2	<2	9	20
C 117363	1	748	<3	215	.9	21	25	1501	5.70	5	8	<2	7	378	.2	<3	3	319	2.52	.405	38	39	1.18	203	.11	<3	1.80	.41	.62	<2	56	3	13
C 117364	4	971	5	71	.9	7	13	819	2.90	2	<8	<2	3	778	.2	<3	<3	127	1.89	.152	14	9	.56	178	.07	<3	2.32	.96	.41	2	99	6	9
RE C 117364	4	1012	4	74	.5	6	14	851	3.02	2	<8	<2	2	810	.2	<3	<3	132	1.96	.157	15	12	.58	185	.07	<3	2.40	1.00	.43	3	104	4	10
RRE C 117364	4	1060	<3	75	.7	8	14	891	3.12	4	<8	<2	3	820	.3	<3	<3	138	2.04	.160	15	13	.60	193	.07	<3	2.43	1.00	.45	3	91	5	6
C 117365	3	667	10	55	.5	4	7	414	1.85	2	<8	<2	2	246	.3	<3	<3	88	.94	.103	7	8	.21	79	.05	3	1.09	.54	.26	2	23	2	7
C 117366	1	1070	15	33	1.0	4	3	169	.65	<2	<8	<2	3	96	.4	<3	<3	26	.32	.011	3	6	.08	62	.05	<3	.28	.08	.31	2	23	<2	<2
C 117367	2	409	7	22	.6	2	2	226	.70	2	<8	<2	3	169	.2	<3	<3	36	.50	.022	4	6	.09	55	.04	4	.58	.32	.24	<2	6	3	2
C 117368	2	159	<3	73	<.3	17	19	777	3.47	3	<8	<2	2	284	.2	<3	<3	144	1.89	.227	13	18	.92	81	.12	3	1.87	.61	.88	3	<2	4	7
C 117369	3	1811	10	54	1.3	12	16	622	3.26	4	<8	<2	2	442	.4	<3	<3	145	1.76	.277	18	25	.56	272	.07	3	1.05	.21	.53	2	46	3	8
C 117370	6	5008	9	87	3.9	21	16	749	3.45	3	<8	<2	5	429	.5	<3	<3	147	2.31	.372	29	27	.64	110	.09	<3	2.15	.64	.51	4	499	8	13
C 117371	2	1887	7	160	1.4	37	33	1241	7.55	7	<8	<2	6	587	.2	<3	<3	361	3.04	.565	40	69	1.32	248	.12	<3	2.22	.37	.77	<2	130	4	10
C 117372	3	504	7	124	.5	9	13	1175	2.49	9	<8	<2	9	362	.2	<3	<3	130	3.38	.451	53	21	.77	149	.08	3	1.57	.34	.60	4	37	4	9
C 117373	4	3010	8	94	2.5	18	17	801	3.72	7	<8	<2	4	794	.4	<3	<3	168	2.18	.327	24	36	.75	96	.08	4	1.88	.41	.58	3	55	<2	7
C 117374	7	5932	9	69	3.7	5	4	970	1.80	4	<8	<2	7	403	.6	<3	3	141	2.64	.222	30	22	.26	56	.12	3	1.51	.41	.33	4	271	4	5
C 117375	4	3190	4	130	1.9	6	8	1528	2.66	7	<8	<2	10	322	.5	<3	4	175	2.96	.327	45	16	.55	45	.08	<3	1.20	.16	.37	3	142	3	5
C 117376	4	4168	11	175	3.1	10	11	1723	3.98	5	8	<2	6	142	.8	<3	4	239	2.08	.188	21	23	.48	119	.09	<3	.83	.06	.46	2	160	4	5
C 117377	8	3142	22	165	2.1	8	12	1372	3.72	7	<8	<2	9	586	.9	<3	<3	233	2.42	.309	35	17	.43	44	.08	<3	1.96	.71	.29	5	134	3	5
C 117378	5	1765	27	211	1.4	10	15	1648	5.04	6	<8	<2	9	476	.6	<3	3	319	2.11	.310	33	22	.54	94	.08	<3	1.23	.29	.40	2	29	3	5
RE C 117378	4	1709	18	203	1.3	10	15	1579	4.84	6	<8	<2	9	456	.7	<3	4	305	2.03	.300	31	19	.52	89	.08	3	1.18	.28	.38	2	30	<2	3
RRE C 117378	4	1785	22	213	1.3	8	15	1649	5.02	5	<8	<2	9	481	.7	<3	<3	318	2.13	.327	34	19	.54	88	.08	<3	1.23	.29	.38	<2	27	<2	2
C 117379	9	2227	10	309	1.4	16	29	3053	9.04	7	<8	<2	5	194	.6	<3	<3	542	4.37	.211	24	18	1.02	307	.04	<3	.98	.05	.60	<2	158	2	10
C 117380	13	445	8	216	.5	9	22	2135	4.08	3	<8	<2	5	169	.3	<3	<3	183	4.31	.177	20	16	1.09	144	.07	<3	1.39	.06	.79	<2	28	5	5
C 117381	1	339	6	151	<.3	9	16	1434	4.00	3	<8	<2	5	122	.2	<3	3	199	2.09	.110	12	18	.75	118	.08	<3	.96	.06	.41	5	7	3	5
C 117382	2	189	4	134	<.3	37	32	1108	6.61	<2	<8	<2	3	259	<.2	<3	<3	339	1.53	.276	17	51	1.08	79	.11	<3	.96	.06	.69	3	7	3	<2
C 117383	6	3261	16	139	2.4	13	15	1327	3.94	7	<8	<2	4	158	.7	<3	<3	196	2.22	.123	11	23	.59	160	.08	3	.75	.06	.52	4	103	5	17
C 117384	3	1129	6	141	.5	10	16	1298	3.16	3	<8	<2	3	218	<.2	<3	<3	148	1.85	.103	11	19	.57	333	.08	<3	.80	.06	.48	4	36	3	4
STANDARD DS3/FA-10R	9	124	32	154	.3	37	12	813	3.12	31	8	<2	4	28	5.5	5	7	76	.53	.094	18	190	.59	152	.08	<3	1.71	.04	.17	5	494	474	485

2001-53

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data L FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117385	15	103	38	159	<.3	43	27	1082	5.89	5	<8	<2	7	93	<.2	<3	<3	238	1.93	.345	24	77	.97	51	.10	5	.66	.06	.56	4	7	5	7
C 117386	5	197	5	84	<.3	6	9	769	2.32	2	<8	<2	3	262	<.2	<3	<3	100	1.47	.122	11	13	.49	76	.07	3	1.03	.16	.35	3	9	3	2
C 117387	11	40	10	98	<.3	7	10	850	2.69	4	<8	<2	5	290	.2	<3	<3	122	1.96	.146	15	13	.47	69	.07	5	1.69	.36	.30	5	4	2	<2
C 117388	6	150	<3	115	.3	7	11	982	2.72	4	<8	<2	6	288	<.2	<3	<3	126	1.87	.152	15	15	.61	62	.07	3	1.65	.47	.38	4	10	<2	<2
C 117389	12	130	7	153	.5	8	15	1412	3.54	4	<8	<2	9	257	<.2	<3	<3	158	2.74	.186	23	14	.81	62	.07	5	1.96	.73	.48	4	4	<2	<2
C 117390	10	161	4	90	.6	6	8	724	2.78	5	<8	<2	8	343	<.2	<3	<3	138	1.99	.168	18	13	.27	37	.05	4	2.46	.75	.26	4	4	2	2
C 117391	5	97	7	79	<.3	7	7	631	2.80	4	<8	<2	3	246	<.2	<3	<3	147	1.50	.123	12	18	.16	42	.07	4	2.00	.57	.24	4	2	<2	4
C 117392	7	31	11	41	<.3	4	4	385	1.73	3	<8	<2	3	261	<.2	<3	<3	88	1.17	.040	7	8	.14	22	.05	5	2.18	.88	.24	3	4	<2	<2
C 117393	8	356	8	62	.4	6	7	634	2.42	6	<8	<2	12	268	.2	<3	<3	127	2.13	.244	29	8	.21	38	.05	4	2.27	.70	.20	4	12	<2	8
C 117394	5	142	<3	56	<.3	4	6	576	1.85	4	<8	<2	<2	257	.2	<3	<3	95	1.32	.016	5	10	.24	31	.06	4	1.65	.64	.21	2	7	5	8
RE C 117394	4	139	5	55	<.3	4	6	582	1.86	2	<8	<2	2	258	<.2	<3	<3	95	1.33	.016	5	6	.25	31	.06	6	1.66	.63	.21	2	8	3	6
RRE C 117394	5	133	4	53	<.3	5	6	559	1.80	2	<8	<2	<2	247	<.2	<3	<3	93	1.27	.015	5	11	.23	32	.06	5	1.57	.61	.21	3	4	<2	9
C 117395	9	201	<3	187	<.3	9	20	1578	3.25	5	<8	<2	2	133	.2	<3	<3	165	2.37	.053	8	15	1.23	119	.11	<3	1.43	.19	.69	<2	7	<2	5
C 117396	7	127	5	132	<.3	10	15	1269	4.31	<2	<8	<2	<2	245	.2	<3	<3	234	1.91	.010	5	16	.63	40	.11	3	2.52	.91	.45	4	3	<2	3
C 117397	16	1002	23	183	.4	10	14	1336	4.21	3	<8	<2	2	213	.4	<3	<3	232	1.69	.084	9	20	.72	67	.11	<3	1.22	.18	.66	<2	148	<2	<2
C 117398	5	1326	9	154	1.3	9	13	1181	3.17	6	<8	<2	8	174	.4	<3	3	162	2.15	.217	23	18	.66	65	.08	<3	1.22	.23	.49	4	303	5	2
C 117399	5	826	5	111	.7	7	10	938	3.63	5	<8	<2	3	230	.3	<3	<3	195	1.70	.106	11	11	.32	33	.08	3	1.82	.62	.26	3	183	<2	<2
C 117400	6	1902	4	106	1.6	8	10	873	3.55	4	<8	<2	4	234	.4	<3	<3	194	1.45	.124	13	16	.26	35	.07	<3	1.65	.55	.25	3	300	3	<2
C 117401	22	4427	14	191	3.1	10	15	1359	4.83	24	9	<2	3	147	.7	5	<3	251	1.82	.120	13	16	.62	92	.08	<3	.99	.08	.51	<2	363	5	2
C 117402	4	4511	13	192	2.7	9	15	1349	4.41	7	<8	<2	12	288	.6	<3	3	227	2.31	.321	36	20	.80	66	.08	<3	1.14	.06	.55	<2	244	3	2
C 117403	6	2494	10	244	1.7	11	16	1592	4.41	11	<8	<2	16	381	.3	<3	<3	227	2.29	.376	52	17	.76	55	.08	3	1.24	.12	.58	<2	74	<2	<2
C 117404	4	2750	8	162	1.7	9	13	1218	5.54	2	<8	<2	5	193	.6	<3	<3	309	1.72	.174	26	17	.29	30	.08	<3	1.85	.51	.27	4	81	4	2
C 117405	4	9388	11	113	6.5	9	11	779	4.05	5	<8	<2	9	121	1.3	<3	7	219	1.35	.226	23	17	.18	38	.08	3	1.39	.46	.27	5	159	4	5
C 117406	6	15526	18	164	10.3	10	13	956	4.31	5	<8	<2	11	118	2.2	<3	8	230	1.56	.276	30	20	.37	35	.08	<3	1.45	.48	.37	4	275	3	3
RE C 117406	7	15515	19	164	10.5	9	13	972	4.35	6	<8	<2	11	119	2.2	<3	8	234	1.57	.274	31	17	.37	35	.08	<3	1.44	.48	.37	<2	273	3	5
RRE C 117406	7	15518	22	163	10.1	11	13	983	4.40	5	<8	<2	11	126	2.1	<3	6	238	1.64	.285	32	19	.38	42	.08	<3	1.52	.50	.40	6	271	<2	6
C 117407	6	687	5	79	.4	8	11	737	2.57	5	<8	<2	6	233	.2	<3	3	120	1.94	.234	20	15	.56	134	.06	<3	1.56	.55	.49	3	23	2	9
C 117408	3	103	7	190	<.3	11	18	1791	2.77	4	<8	<2	11	160	.2	<3	<3	116	3.35	.250	28	15	1.36	193	.08	<3	1.39	.07	.92	<2	8	3	12
C 117409	2	190	7	143	<.3	28	21	1102	3.99	5	<8	<2	4	261	.2	<3	<3	162	2.11	.143	11	80	1.08	71	.12	<3	1.34	.24	.80	4	5	5	17
C 117410	6	109	4	85	<.3	8	9	729	2.76	4	<8	<2	6	229	<.2	<3	<3	126	1.40	.131	13	18	.30	47	.07	<3	1.84	.72	.32	4	2	7	3
C 117411	6	139	4	77	.3	7	9	702	2.68	3	<8	<2	8	187	<.2	<3	<3	118	1.75	.180	18	12	.28	37	.06	3	2.32	.91	.25	3	<2	6	3
C 117412	5	92	6	146	<.3	10	13	1111	2.33	4	<8	<2	8	301	<.2	<3	<3	100	1.95	.226	22	16	.68	88	.08	<3	1.53	.48	.52	5	<2	5	4
C 117413	5	88	3	118	<.3	13	15	1021	3.14	5	<8	<2	5	328	<.2	<3	<3	128	2.13	.219	15	36	.81	188	.09	<3	1.41	.29	.61	3	<2	<2	4
C 117414	20	20	6	62	<.3	10	13	725	3.18	4	<8	<2	5	421	<.2	<3	<3	127	2.37	.227	17	22	.58	233	.07	<3	2.45	.94	.52	4	<2	2	<2
STANDARD DS3/FA-10R	9	122	37	154	<.3	37	12	813	3.13	31	9	<2	4	27	5.7	5	6	77	.53	.093	18	192	.60	153	.08	<3	1.72	.04	.17	5	478	481	465

2001-53

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data L FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117415	3	6	6	83	<.3	29	16	685	3.02	3	<8	<2	2	130	<.2	<3	<3	107	1.38	.127	8	193	1.09	53	.13	10	1.26	.24	.81	2	<2	4	<2
C 117416	7	46	<3	36	<.3	8	9	418	2.52	3	<8	<2	3	370	<.2	<3	<3	106	2.12	.153	12	21	.30	95	.05	8	3.25	1.13	.29	2	<2	2	2
C 117451	1	3479	14	117	1.9	10	12	973	2.99	2	<8	<2	2	90	.6	<3	3	198	.86	.109	9	40	.77	98	.13	9	1.02	.08	.53	3	151	3	3
C 117452	2	209	4	23	<.3	7	3	329	1.17	<2	<8	<2	3	57	<.2	<3	<3	61	.76	.034	5	15	.14	55	.03	5	.36	.08	.20	5	38	3	<2
C 117453	2	547	10	52	.3	5	9	574	3.01	2	<8	<2	<2	150	.2	<3	<3	205	1.22	.119	9	13	.41	67	.11	6	.92	.09	.31	2	44	9	11
C 117454	2	646	7	59	<.3	7	9	526	3.19	2	<8	<2	2	182	<.2	<3	<3	208	1.28	.140	11	16	.31	61	.10	3	1.08	.10	.29	3	49	11	8
C 117455	2	4147	20	81	2.3	8	11	464	2.58	3	<8	<2	3	112	.7	<3	3	117	.95	.120	11	20	.43	58	.11	10	1.09	.08	.32	2	604	2	8
C 117456	2	1581	15	88	.6	8	10	580	2.68	2	<8	<2	<2	149	.3	<3	<3	142	.96	.102	9	19	.39	74	.10	3	1.10	.11	.34	3	124	4	4
C 117457	3	3001	59	88	2.1	6	9	488	2.40	3	<8	<2	2	123	.5	<3	<3	120	.93	.110	10	12	.23	46	.07	3	.91	.08	.24	2	177	8	13
C 117458	2	3164	11	77	2.0	8	8	416	1.68	4	<8	<2	2	81	.4	<3	<3	97	.67	.125	12	15	.43	92	.13	3	.79	.08	.46	3	135	3	4
C 117459	2	2432	11	102	1.6	9	12	829	4.29	3	<8	<2	3	125	.2	<3	<3	263	.84	.122	10	19	.37	70	.11	3	.83	.07	.32	3	276	<2	4
C 117460	2	2176	4	35	1.2	5	3	235	1.02	<2	<8	<2	2	70	.3	<3	3	55	.23	.034	5	28	.10	77	.08	3	.35	.06	.35	3	131	5	2
RE C 117460	1	2148	7	34	1.1	4	3	226	.98	<2	<8	<2	<2	67	.4	<3	<3	51	.22	.033	5	27	.09	74	.07	5	.32	.06	.33	2	140	<2	<2
RRE C 117460	2	2205	7	36	1.0	3	3	237	1.05	2	<8	<2	<2	70	.3	<3	<3	52	.23	.035	4	25	.10	77	.08	3	.35	.06	.34	2	144	4	<2
C 117461	2	1560	7	33	.8	6	5	298	1.19	<2	<8	<2	2	135	.4	<3	<3	44	.75	.049	6	17	.20	116	.06	3	.41	.07	.43	2	91	3	2
C 117462	1	425	3	67	<.3	21	27	899	4.59	2	<8	<2	2	254	<.2	<3	<3	184	1.70	.279	16	39	1.37	274	.17	4	1.30	.06	1.01	2	26	8	17
C 117463	2	440	6	90	<.3	12	18	871	4.13	3	<8	<2	5	241	<.2	<3	3	178	1.85	.247	15	20	.70	243	.12	5	.95	.07	.62	4	47	22	30
C 117464	2	1016	6	153	.6	7	13	794	4.62	2	<8	<2	3	139	.7	<3	3	267	1.34	.143	8	18	.32	90	.10	4	.81	.07	.28	4	49	4	13
C 117465	1	1020	9	145	.5	9	13	744	4.09	2	<8	<2	3	132	.5	<3	<3	225	1.26	.146	9	17	.39	66	.10	6	.85	.07	.30	4	73	24	34
C 117466	2	1159	8	185	.5	8	15	1017	5.41	3	<8	<2	6	108	.7	<3	<3	334	2.16	.257	15	15	.48	55	.10	8	.85	.05	.26	<2	71	3	6
C 117467	3	1299	3	166	.9	10	14	728	5.22	3	<8	<2	8	125	.4	<3	<3	341	1.41	.289	18	16	.34	61	.10	9	.93	.08	.32	5	72	4	4
C 117468	1	915	3	192	.5	9	15	968	5.99	4	<8	<2	7	118	.4	<3	<3	385	1.62	.301	18	17	.39	54	.10	11	.82	.07	.26	<2	49	4	8
C 117469	2	864	<3	152	<.3	10	15	890	4.57	<2	<8	<2	5	125	.2	<3	<3	275	1.36	.203	12	18	.40	64	.10	9	.86	.08	.29	4	20	16	8
C 117470	2	1997	6	148	<.3	14	27	972	6.47	10	<8	<2	20	176	.2	<3	<3	365	3.21	.963	62	18	.53	41	.06	12	1.08	.07	.23	4	66	4	8
C 117471	2	924	3	91	.5	8	8	537	2.75	4	<8	<2	3	183	.3	<3	3	161	1.26	.145	11	16	.34	67	.10	9	1.02	.11	.31	4	47	10	19
C 117472	2	1078	7	72	.9	6	8	446	1.68	2	<8	<2	2	147	.2	<3	<3	89	1.12	.143	10	14	.45	76	.10	8	.94	.09	.35	2	43	<2	6
RE C 117472	2	1113	6	72	.4	6	8	456	1.72	<2	<8	<2	<2	151	.2	<3	<3	91	1.15	.146	10	14	.46	75	.10	<3	.95	.09	.36	2	49	3	8
RRE C 117472	1	1027	5	68	.5	8	7	436	1.62	2	<8	<2	2	146	.2	<3	3	85	1.11	.137	10	17	.43	74	.10	7	.92	.09	.35	3	41	3	5
C 117473	2	1522	5	50	.8	5	6	321	1.26	<2	<8	<2	2	112	.2	<3	<3	65	.81	.112	10	14	.35	78	.11	9	.73	.08	.39	2	56	2	2
C 117474	1	1808	8	48	1.0	7	6	350	1.38	2	<8	<2	2	124	<.2	<3	<3	78	.99	.158	12	15	.36	86	.09	9	.72	.08	.40	3	58	<2	6
C 117475	2	2534	4	56	1.8	10	7	384	1.57	3	<8	<2	2	111	.4	<3	<3	85	.84	.167	12	25	.51	115	.11	10	.73	.07	.52	2	123	4	5
C 117476	2	6445	9	29	6.0	6	4	189	1.24	9	<8	<2	6	110	.4	<3	4	97	1.75	.797	80	18	.11	121	.05	7	.42	.07	.40	3	439	17	41
C 117477	2	7728	10	60	6.6	5	5	339	1.33	2	<8	<2	2	75	.8	<3	5	66	.72	.192	16	14	.25	96	.08	6	.45	.06	.32	2	310	2	6
C 117478	1	2977	7	100	2.3	8	9	837	2.12	3	<8	<2	3	73	.7	<3	3	113	2.36	.242	21	17	.62	72	.04	8	.88	.05	.29	4	232	17	30
STANDARD DS3/FA-10R	10	121	36	152	<.3	36	12	803	3.08	31	8	<2	3	27	5.5	6	7	76	.51	.093	17	187	.58	149	.08	<3	1.68	.04	.16	7	472	470	471

2001-53

2001-54

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data L FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117479	2	1637	5	48	.8	4	5	472	1.49	<2	<8	<2	3	88	.3	<3	<3	79	1.42	.153	16	12	.26	148	.04	7	.43	.03	.28	2	100	<2	4
C 117480	3	2767	134	105	3.8	11	12	883	3.66	3	<8	<2	2	147	.9	<3	<3	213	2.19	.210	16	17	.50	247	.07	5	.76	.06	.56	5	163	3	4
C 117481	1	1679	3	104	.7	8	11	731	2.32	<2	<8	<2	2	148	.3	<3	<3	116	1.13	.058	6	15	.69	74	.12	6	.88	.06	.47	2	91	4	9
C 117482	2	2449	5	138	1.3	11	13	976	3.69	<2	8	<2	<2	132	.3	<3	<3	210	1.01	.075	7	19	.74	83	.14	5	.94	.06	.52	5	96	<2	5
C 117483	3	4526	6	124	3.6	11	14	1036	4.09	3	<8	<2	<2	169	.7	<3	3	206	1.93	.096	8	15	.74	265	.09	7	.72	.05	.49	4	157	2	6
C 117484	3	4116	9	82	3.3	11	11	730	3.25	4	<8	<2	2	125	.5	<3	<3	167	1.28	.095	8	19	.64	118	.11	8	.85	.06	.62	4	106	<2	3
C 117485	3	4065	7	122	3.4	5	11	716	3.56	2	<8	<2	2	139	.6	<3	<3	198	.73	.097	8	13	.57	84	.15	6	.86	.05	.47	4	69	5	4
C 117486	1	2455	<3	152	1.5	13	17	985	6.32	2	<8	<2	<2	374	.4	<3	4	385	.66	.042	5	16	.49	87	.17	3	.83	.06	.45	5	116	4	5
C 117487	2	1755	<3	130	.5	9	14	848	4.67	<2	<8	<2	<2	250	.2	<3	<3	317	.60	.082	6	12	.77	125	.17	6	.88	.06	.75	3	86	<2	3
C 117488	2	981	9	76	<.3	46	21	829	3.67	3	<8	<2	<2	175	.2	<3	<3	157	1.74	.129	11	86	1.40	142	.15	5	1.38	.06	.78	3	52	5	6
RE C 117488	2	981	7	77	.3	45	21	827	3.67	4	<8	<2	2	175	.3	<3	3	156	1.74	.129	11	82	1.40	142	.15	5	1.39	.06	.78	3	52	2	7
RRE C 117488	3	1008	6	79	.6	45	22	852	3.75	4	<8	<2	3	180	.3	<3	<3	160	1.80	.138	12	87	1.44	141	.15	9	1.41	.07	.80	3	51	4	6
C 117489	6	922	3	65	<.3	40	15	556	3.13	3	<8	<2	<2	542	.2	<3	<3	131	1.14	.084	9	88	.69	88	.13	5	1.88	.32	.65	4	27	6	3
C 117490	5	1733	7	88	.7	5	11	794	3.96	5	<8	<2	<2	231	.4	<3	<3	186	1.22	.061	9	1	.25	41	.10	4	1.81	.56	.30	4	104	4	4
C 117491	2	660	4	100	<.3	8	9	782	3.34	<2	<8	<2	<2	145	.2	<3	<3	155	1.20	.053	7	6	.46	101	.10	3	.78	.07	.40	4	29	<2	2
C 117492	3	599	5	79	.4	4	9	705	2.87	3	13	<2	2	183	.2	<3	<3	112	1.65	.067	7	6	.43	167	.07	7	.76	.05	.35	3	69	4	2
C 117493	8	836	4	67	.4	6	8	565	2.87	3	<8	<2	<2	462	.3	<3	3	139	1.25	.080	8	6	.24	50	.09	8	1.68	.42	.30	4	26	<2	2
C 117494	2	766	5	103	<.3	6	10	653	3.74	<2	<8	<2	<2	154	.3	<3	<3	194	.83	.027	4	6	.36	65	.12	7	.70	.06	.30	3	36	3	6
C 117495	2	577	7	90	<.3	8	10	732	3.07	2	<8	<2	<2	159	.4	<3	<3	135	1.38	.060	6	11	.47	151	.10	5	.70	.05	.42	4	35	4	4
C 117496	3	647	11	111	<.3	8	9	613	3.02	<2	<8	<2	<2	184	.3	<3	<3	143	.86	.037	4	17	.35	85	.11	4	.68	.05	.31	3	22	2	6
C 117497	1	849	3	88	.6	11	10	747	3.37	<2	<8	<2	<2	175	.3	<3	3	165	1.24	.060	6	23	.52	139	.11	8	.77	.06	.45	4	27	2	4
C 117498	2	358	3	75	<.3	8	9	623	2.81	2	<8	<2	2	390	.2	<3	<3	133	1.28	.055	6	22	.44	90	.10	7	.94	.12	.39	3	10	3	5
C 117499	6	630	5	62	.3	10	8	515	2.92	2	<8	<2	3	577	.2	<3	<3	150	1.07	.087	8	23	.32	68	.11	8	1.33	.25	.39	4	35	4	2
C 117500	1	1525	4	62	.3	11	9	443	2.35	<2	<8	<2	2	84	.2	<3	<3	120	.63	.075	6	23	.54	68	.13	5	.65	.06	.54	2	45	3	<2
RE C 117500	2	1505	6	62	.3	11	9	442	2.35	2	<8	<2	2	82	.2	<3	<3	120	.63	.076	6	23	.54	67	.13	8	.64	.06	.53	<2	45	<2	4
RRE C 117500	1	1453	5	63	.6	14	9	454	2.38	<2	<8	<2	2	90	.2	<3	<3	124	.64	.072	6	27	.56	76	.14	8	.70	.07	.59	4	39	2	2
C 117501	1	225	5	39	<.3	9	4	321	1.46	<2	<8	<2	3	80	<.2	<3	<3	64	.53	.021	5	27	.29	67	.09	11	.38	.06	.29	<2	10	<2	<2
C 117502	3	57	4	11	<.3	8	1	122	.58	<2	<8	<2	3	22	<.2	<3	<3	9	.15	.003	7	17	.07	27	.01	10	.20	.07	.15	6	22	<2	<2
C 117503	2	1971	5	85	.9	8	11	625	3.10	<2	12	<2	3	91	.2	<3	<3	189	.87	.101	7	20	.62	83	.13	7	.70	.06	.58	3	102	4	6
C 117504	2	430	3	99	<.3	12	11	716	3.38	<2	8	<2	3	141	.2	<3	<3	175	.95	.070	6	33	.60	75	.14	8	.69	.06	.48	4	32	<2	4
C 117505	2	286	3	90	<.3	10	10	602	2.94	<2	<8	<2	2	170	<.2	<3	<3	125	1.09	.070	6	20	.53	77	.12	3	.72	.06	.38	3	20	6	5
C 117551	2	555	3	110	<.3	8	2	271	.68	<2	<8	<2	4	38	.5	<3	<3	20	.23	.008	6	20	.04	131	.02	7	.22	.07	.17	8	9	<2	<2
C 117552	2	362	<3	28	<.3	3	1	215	.53	<2	<8	<2	3	36	.4	<3	3	18	.26	.005	6	11	.03	133	.03	9	.18	.07	.16	2	2	2	<2
C 117553	2	216	4	22	<.3	8	1	172	.53	<2	<8	<2	3	59	.3	<3	<3	12	.20	.002	3	16	.02	132	.01	6	.19	.07	.16	7	<2	4	<2
STANDARD DS3/FA-10R	11	126	36	158	<.3	38	12	840	3.22	31	12	<2	4	28	5.8	5	6	77	.54	.096	18	191	.61	158	.08	4	1.76	.04	.17	4	486	482	472

2001-54

2001-55

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data L FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117554	2	143	6	22	.3	3	1	191	.58	2	<8	<2	2	34	.3	<3	<3	14	.22	.002	3	13	.03	117	.01	7	.21	.07	.17	2	6	<2	<2
C 117555	3	165	4	19	<.3	7	2	292	.64	<2	<8	<2	2	33	.2	<3	<3	17	.27	.004	4	17	.07	99	.01	7	.27	.08	.21	7	30	<2	<2
C 117556	1	251	<3	29	.3	5	5	462	1.25	<2	<8	<2	2	39	.2	<3	<3	53	.63	.038	6	14	.31	71	.02	7	.43	.06	.19	2	96	<2	<2
C 117557	<1	2512	13	138	1.7	14	14	891	3.99	2	<8	<2	4	133	.4	<3	<3	229	1.53	.351	25	41	.70	76	.09	6	.84	.08	.23	5	122	4	10
C 117558	1	93	6	35	<.3	3	3	328	1.49	<2	<8	<2	3	42	.2	<3	<3	71	.35	.040	7	13	.15	63	.04	9	.33	.09	.22	2	<2	2	<2
C 117559	1	212	4	100	<.3	9	10	762	2.47	3	<8	<2	4	146	.3	<3	<3	128	1.02	.191	12	17	.78	81	.11	7	1.16	.09	.51	4	11	<2	3
C 117560	1	333	4	72	<.3	6	10	665	2.52	3	<8	<2	2	172	.2	<3	3	127	1.11	.127	9	17	.63	84	.10	8	1.11	.09	.45	3	17	3	3
C 117561	<1	1219	3	94	<.3	9	12	777	3.16	3	<8	<2	4	157	<.2	<3	<3	167	1.43	.285	17	19	.80	94	.11	6	1.12	.09	.53	4	293	5	4
C 117562	1	1217	3	99	<.3	8	11	773	3.21	2	<8	<2	2	159	.2	<3	3	181	1.35	.162	12	16	.60	90	.10	6	.96	.07	.39	3	275	5	7
C 117563	2	1921	4	81	.4	8	11	597	3.05	<2	<8	<2	<2	84	.2	<3	<3	193	.63	.103	9	17	.56	106	.15	7	.80	.05	.54	4	116	4	4
C 117564	1	1070	<3	65	<.3	5	8	480	2.23	<2	<8	<2	<2	100	.3	<3	<3	132	.65	.077	7	12	.40	87	.12	7	.65	.06	.40	2	34	3	5
RE C 117564	1	1077	4	65	<.3	5	8	484	2.23	3	<8	<2	2	99	.2	<3	<3	133	.65	.078	7	10	.40	84	.12	8	.65	.06	.39	2	36	3	4
RRE C 117564	1	1101	3	66	<.3	7	8	498	2.29	<2	<8	<2	<2	103	.2	<3	<3	137	.66	.076	8	13	.41	92	.13	6	.68	.06	.42	4	39	4	6
C 117565	1	178	6	66	<.3	7	13	614	3.80	3	<8	<2	<2	184	<.2	<3	<3	189	1.26	.178	10	12	.44	54	.10	8	.77	.06	.23	2	22	5	7
C 117566	1	159	4	23	<.3	4	4	341	1.59	<2	<8	<2	<2	84	<.2	<3	<3	61	.97	.035	6	8	.21	58	.03	6	.45	.09	.23	3	17	<2	<2
C 117567	1	1899	3	85	.7	13	19	775	4.20	<2	10	<2	2	137	.2	<3	3	209	1.34	.166	11	24	.91	60	.15	6	1.25	.07	.37	2	171	8	10
C 117568	1	459	6	91	<.3	12	14	765	3.92	<2	<8	<2	<2	167	<.2	<3	<3	203	1.57	.208	15	24	.68	59	.12	6	1.13	.08	.31	4	35	2	7
C 117569	1	1405	<3	67	<.3	5	8	495	2.63	<2	<8	<2	<2	74	<.2	<3	<3	157	.66	.103	10	33	.29	62	.10	7	.56	.05	.27	2	82	4	3
C 117570	<1	2394	8	59	1.3	6	8	448	1.85	<2	<8	<2	2	112	.3	<3	<3	103	.70	.075	8	27	.34	107	.09	7	.65	.08	.37	2	77	<2	2
C 117571	1	1821	6	48	.9	5	7	420	1.96	<2	<8	<2	2	87	.2	<3	<3	117	.51	.081	7	23	.33	80	.08	7	.56	.07	.33	<2	74	<2	3
C 117572	2	4531	6	73	2.0	6	10	523	3.02	2	<8	<2	2	148	.2	<3	<3	178	.73	.140	11	25	.35	73	.10	6	.69	.07	.30	2	226	13	7
C 117573	1	2173	9	99	1.0	8	12	657	3.63	<2	<8	<2	<2	119	<.2	<3	<3	204	.90	.172	10	23	.50	82	.13	6	.78	.06	.44	2	127	2	4
C 117574	<1	2194	7	65	.8	7	9	506	3.16	4	<8	<2	6	83	.3	<3	<3	193	1.09	.292	17	26	.36	85	.08	8	.56	.06	.39	2	47	2	2
C 117575	1	1932	4	41	.7	4	7	393	1.85	3	<8	<2	5	75	.2	<3	<3	116	1.40	.453	27	28	.37	97	.07	7	.54	.07	.47	2	61	10	5
C 117576	17	1239	9	36	.5	5	6	432	1.81	<2	<8	<2	2	88	<.2	<3	<3	106	.99	.108	9	22	.25	146	.08	6	.46	.06	.44	2	25	<2	3
RE C 117576	19	1296	4	37	.3	5	7	452	1.90	2	<8	<2	2	92	.3	<3	<3	112	1.04	.112	9	28	.26	153	.08	6	.48	.06	.46	2	29	<2	3
RRE C 117576	16	1287	8	37	.5	5	6	445	1.85	<2	<8	<2	<2	89	<.2	<3	3	109	1.03	.112	8	14	.27	147	.08	7	.47	.06	.44	2	24	2	2
C 117577	5	1941	<3	56	1.2	7	13	585	2.64	2	<8	<2	<2	151	.3	<3	<3	146	1.32	.115	8	12	.47	143	.07	6	.57	.06	.47	2	29	<2	3
C 117578	2	1580	6	43	1.3	5	7	610	1.53	2	<8	<2	<2	300	.4	<3	<3	84	2.43	.122	9	5	.30	391	.04	5	.52	.05	.45	3	73	<2	4
C 117579	9	1976	7	61	2.6	5	9	839	2.09	<2	<8	<2	<2	99	1.2	<3	<3	118	2.00	.074	7	4	.38	147	.01	6	.73	.02	.27	3	151	2	7
C 117580	4	2461	6	124	1.3	7	16	871	4.93	2	8	<2	2	71	.5	<3	<3	318	1.90	.132	12	17	.49	132	.02	6	.99	.03	.25	7	105	4	3
C 117581	2	2488	7	89	1.9	6	11	769	2.84	<2	8	<2	2	137	.3	<3	<3	160	1.63	.081	9	21	.62	124	.10	7	.81	.05	.38	3	125	2	3
C 117582	1	1921	3	112	.8	8	13	918	3.33	2	<8	<2	<2	145	<.2	<3	<3	157	1.60	.121	10	13	.82	56	.10	4	.99	.08	.35	3	96	<2	4
C 117583	1	1205	3	112	<.3	12	18	953	3.72	<2	<8	<2	2	186	<.2	<3	<3	162	1.50	.191	12	17	1.11	122	.15	7	1.16	.07	.63	3	66	3	7
STANDARD DS3/FA-10R	8	122	34	153	<.3	37	12	804	3.08	28	9	<2	4	27	5.6	5	8	76	.52	.093	17	190	.59	150	.08	5	1.71	.04	.17	7	480	480	472

2001 - 55

Sample type: CORE R150 60C. 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 ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117584	1	1309	4	110	.5	11	16	920	4.80	2	<8	<2	3	139	.4	<3	<3	281	1.75	.149	12	20	.79	76	.12	5	.88	.06	.41	2	87	<2	3
C 117585	2	1726	3	49	1.2	5	7	440	1.55	<2	<8	<2	2	105	.3	<3	<3	77	.91	.069	6	24	.43	79	.09	7	.54	.06	.34	<2	81	3	4
C 117586	2	2580	<3	104	1.4	17	16	810	4.38	2	9	<2	3	175	.4	<3	<3	248	1.48	.190	16	44	.81	81	.12	7	.92	.08	.41	2	137	5	9
C 117587	2	2872	3	71	1.8	11	12	511	3.19	2	<8	<2	2	140	.3	<3	3	178	1.00	.167	11	32	.50	136	.11	6	.63	.08	.44	<2	247	11	12
C 117588	1	2031	4	136	1.1	15	16	817	4.94	3	<8	<2	2	176	.4	<3	<3	281	1.14	.143	9	40	.54	75	.12	5	.85	.07	.31	2	103	4	10
C 117589	2	2166	<3	110	.9	33	23	878	8.39	4	<8	<2	3	146	.4	<3	<3	496	1.29	.156	10	75	.72	78	.14	6	.81	.06	.37	3	128	11	18
C 117590	2	2093	5	128	.7	24	24	959	6.67	3	<8	<2	2	125	.4	<3	<3	395	1.00	.146	8	55	.72	92	.16	5	.84	.07	.51	2	78	4	11
C 117591	1	2469	6	73	1.9	45	16	688	3.03	4	<8	<2	5	78	.2	<3	<3	135	1.76	.293	17	126	1.24	91	.14	7	.91	.07	.72	2	165	12	30
C 117592	3	1819	3	81	.8	19	14	832	3.24	<2	<8	<2	2	211	.4	<3	<3	157	2.14	.149	9	40	.95	192	.11	5	.93	.06	.63	2	81	5	9
C 117593	2	739	7	103	<.3	9	12	967	3.35	2	<8	<2	3	134	.2	<3	<3	165	1.94	.172	15	25	.71	59	.11	5	.91	.09	.40	2	36	3	4
C 117594	2	4472	5	99	3.4	50	17	1086	3.60	93	<8	<2	4	184	.8	35	<3	168	4.36	.293	18	98	1.27	90	.11	4	.83	.07	.60	2	200	14	41
RE C 117594	3	4465	8	100	3.0	50	17	1085	3.61	93	<8	<2	4	183	.7	34	<3	170	4.36	.294	18	100	1.28	90	.11	7	.84	.07	.59	3	339	13	42
RRE C 117594	2	4526	9	101	3.3	49	17	1091	3.65	106	<8	<2	4	183	.8	40	<3	169	4.38	.293	18	98	1.29	89	.11	6	.84	.07	.60	2	229	17	43
C 117595	1	2518	6	189	.8	13	20	1261	5.93	3	<8	<2	3	161	.7	<3	<3	342	1.75	.183	16	23	.78	69	.13	4	1.03	.08	.37	<2	109	3	8
C 117596	1	4434	4	76	2.8	48	22	718	5.60	4	<8	<2	4	103	.5	<3	<3	329	2.19	.375	22	113	1.14	145	.11	4	.83	.08	.65	2	411	18	36
C 117597	3	928	4	37	.3	9	6	328	1.97	2	<8	<2	4	103	.2	<3	<3	97	.72	.056	6	20	.20	130	.07	10	.34	.07	.25	2	56	<2	5
C 117598	3	54	4	9	<.3	4	1	179	.54	2	<8	<2	4	35	<.2	<3	<3	18	.39	.006	6	11	.03	46	.01	8	.16	.06	.15	2	5	<2	2
C 117599	1	3130	3	44	1.5	46	14	489	2.96	2	<8	<2	3	82	.2	<3	<3	145	1.80	.207	13	124	1.06	84	.12	8	.71	.08	.61	<2	225	18	43
C 117600	2	1925	4	35	1.0	42	13	396	2.62	2	<8	<2	3	69	.2	<3	<3	124	1.21	.115	8	131	.98	99	.11	10	.69	.08	.55	<2	122	11	39
C 117601	2	3668	12	65	2.1	53	21	648	4.43	2	10	<2	3	95	.4	<3	<3	205	1.78	.140	9	141	1.20	268	.17	7	.92	.10	.83	2	179	10	32
C 117602	2	5604	23	73	4.1	61	24	597	4.60	5	<8	<2	3	79	.8	<3	3	211	1.58	.241	13	145	1.31	95	.17	6	.96	.07	.80	<2	303	17	58
C 117603	3	2620	3	75	1.6	6	11	628	2.98	2	<8	<2	<2	226	.3	<3	<3	131	1.82	.124	8	14	.42	202	.07	7	.74	.04	.41	2	265	2	7
C 117604	4	2076	<3	99	1.3	7	11	766	3.59	3	<8	<2	<2	331	.4	<3	<3	174	2.19	.119	8	8	.46	171	.07	5	.82	.05	.35	2	119	3	8
C 117605	2	3863	<3	106	2.5	26	18	790	5.02	2	<8	<2	2	649	.4	<3	<3	265	1.65	.207	13	82	.76	137	.15	7	1.19	.15	.49	3	262	7	18
C 117606	3	3494	6	82	2.9	8	9	652	2.87	2	<8	<2	2	224	.4	<3	<3	133	1.73	.161	12	32	.41	171	.06	7	.70	.05	.34	2	331	4	9
RE C 117606	3	3409	<3	81	2.9	8	10	644	2.83	3	<8	<2	2	221	.4	<3	3	129	1.71	.161	12	33	.40	168	.06	6	.70	.05	.34	2	340	4	10
RRE C 117606	2	3368	5	81	3.1	9	10	645	2.86	<2	<8	<2	2	217	.4	<3	<3	133	1.70	.157	11	32	.40	167	.06	8	.70	.05	.34	2	354	4	15
C 117607	4	918	8	62	.9	12	13	679	2.55	<2	<8	<2	2	364	.2	<3	<3	106	1.88	.159	12	38	.76	197	.08	7	.86	.05	.45	2	62	<2	7
C 117608	1	154	3	74	<.3	120	35	814	4.47	2	9	<2	2	234	<.2	3	<3	123	1.37	.124	10	293	2.65	196	.20	6	1.91	.10	1.49	2	<2	7	3
C 117609	6	1924	5	98	1.1	24	18	921	4.38	3	<8	<2	2	245	.3	<3	<3	190	2.57	.160	11	61	1.06	83	.13	3	1.23	.07	.47	3	73	2	10
C 117610	14	3987	19	132	2.3	13	17	906	4.60	3	<8	<2	2	557	.8	<3	3	228	1.83	.153	13	33	.66	93	.10	3	1.51	.38	.23	4	148	2	7
C 117611	7	4131	18	124	2.9	16	17	997	4.01	3	<8	<2	2	1591	.8	<3	<3	165	2.13	.134	12	33	.97	219	.12	4	1.64	.20	.51	4	185	2	12
C 117612	<1	160	<3	86	<.3	113	39	858	5.66	<2	<8	<2	<2	237	.2	<3	4	196	1.55	.212	14	233	2.51	217	.28	5	1.86	.08	1.88	2	7	3	3
C 117613	4	619	5	32	<.3	13	9	407	2.07	<2	<8	<2	<2	1396	.2	<3	<3	75	1.60	.068	5	26	.56	189	.07	4	1.69	.27	.51	3	45	2	6
STANDARD DS3/FA-10R	9	125	36	158	.4	38	12	834	3.21	30	10	<2	4	31	5.8	4	6	79	.55	.095	18	195	.61	158	.09	6	1.79	.04	.17	6	487	482	473

2001-55

Sample type: CORE R150 60C. 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 ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117614	<1	11	<3	82	<.3	142	44	849	5.71	<2	13	<2	<2	155	<.2	<3	<3	187	1.47	.209	16	306	2.95	442	.29	<3	2.04	.09	2.16	2	7	4	<2
C 117615	2	10	<3	66	<.3	136	39	732	4.46	<2	8	<2	<2	338	<.2	<3	4	127	1.07	.157	11	310	2.83	298	.25	5	2.00	.12	2.03	<2	<2	7	2
C 117616	3	47	8	64	<.3	143	40	661	4.38	2	<8	<2	<2	191	<.2	<3	4	101	.98	.115	10	354	2.89	188	.21	<3	1.81	.08	1.95	2	3	7	2
C 117617	1	113	6	89	<.3	137	39	1051	4.56	<2	<8	<2	2	171	.2	<3	<3	150	2.18	.086	7	354	3.02	186	.24	5	1.95	.06	1.91	2	2	6	<2
C 117618	7	1205	5	70	.8	12	14	741	3.68	<2	<8	<2	2	313	.3	<3	<3	154	2.54	.141	9	23	.57	414	.07	<3	.80	.05	.57	<2	44	<2	4
C 117619	5	1093	6	85	<.3	6	16	889	4.51	2	<8	<2	2	469	.2	<3	4	221	2.38	.186	11	8	.73	483	.11	<3	.96	.05	.85	2	52	2	5
C 117620	7	278	6	74	<.3	5	11	756	3.27	<2	<8	<2	<2	337	<.2	<3	3	151	2.10	.099	8	12	.53	267	.10	<3	.77	.06	.53	2	13	2	3
RE C 117620	7	280	4	75	<.3	5	11	762	3.30	<2	<8	<2	<2	338	<.2	<3	4	153	2.12	.100	8	11	.54	268	.10	<3	.78	.06	.54	<2	15	<2	3
RRE C 117620	7	269	5	74	<.3	4	11	759	3.41	<2	<8	<2	2	344	.2	<3	<3	158	2.09	.096	8	9	.53	264	.10	5	.80	.06	.53	2	21	2	4
C 117621	11	624	5	87	.3	15	13	751	3.11	<2	<8	<2	<2	339	.2	<3	<3	134	1.53	.055	5	32	.67	365	.12	<3	.83	.07	.57	2	42	6	7
C 117622	5	348	3	82	.4	29	16	863	3.04	<2	<8	<2	<2	529	.3	<3	<3	115	2.21	.091	7	76	1.08	420	.12	4	1.03	.06	.87	2	21	<2	3
C 117623	5	388	3	87	1.0	13	15	985	3.64	<2	<8	<2	2	469	.3	<3	<3	131	2.69	.066	5	22	.67	433	.08	<3	.76	.07	.62	3	107	3	9
C 117624	1	30	6	79	<.3	145	41	853	4.67	<2	<8	<2	2	177	<.2	<3	<3	109	1.12	.085	8	352	3.11	216	.20	4	2.05	.06	2.29	2	<2	8	2
C 117625	5	386	5	66	<.3	50	19	841	2.63	2	<8	<2	3	373	<.2	<3	<3	76	2.68	.094	9	123	1.45	207	.14	<3	1.21	.10	1.17	<2	20	2	3
C 117626	3	6	6	63	<.3	61	25	919	3.08	<2	<8	<2	3	326	<.2	<3	<3	90	2.56	.114	10	129	1.97	111	.14	5	1.45	.09	1.44	2	11	3	<2
STANDARD DS3/FA-10R	10	122	37	156	.4	37	12	823	3.18	29	12	<2	4	29	5.7	5	7	80	.55	.095	18	193	.61	157	.09	<3	1.75	.04	.17	6	493	476	483

2001-55

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Eastfield Resources Ltd. File # A103251 Page 1

110 - 325 Howe St., Vancouver BC V6C 1Z7 Submitted by: Jay W. Page

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	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	Au** ppb	Pt** ppb	Pd** ppb
SI	1	4	<3	3	<.3	2	<1	9	.07	<2	<8	<2	<2	5	<.2	<3	<3	<1	.21	<.001	<1	8	<.01	5	<.01	4	.02	.77	.01	<2	<2	<2	<2
C 117651	1	726	5	69	.3	7	11	592	1.85	10	<8	<2	<2	73	.3	<3	<3	81	1.20	.065	6	21	.61	108	.06	<3	.79	.05	.66	2	15	2	<2
C 117652	2	1926	3	30	.9	5	5	154	.94	30	<8	<2	5	129	.2	<3	<3	33	.22	.074	11	24	.11	190	.02	<3	.58	.08	.58	<2	31	2	2
C 117653	2	1187	4	83	.5	6	12	439	2.06	29	<8	<2	<2	75	.4	3	<3	96	.90	.094	6	19	.24	101	.02	<3	.64	.02	.35	2	8	2	3
C 117654	1	1767	<3	82	.5	8	14	581	2.82	8	<8	<2	<2	120	.3	<3	3	136	.68	.097	6	24	.54	154	.09	<3	.86	.07	.77	2	28	<2	2
C 117655	3	2421	5	97	.8	8	16	603	2.59	<2	<8	<2	<2	111	.3	<3	<3	128	.63	.091	5	22	1.17	179	.17	<3	1.29	.11	1.43	2	45	3	<2
C 117656	1	2243	5	67	1.2	7	11	464	1.92	2	<8	<2	2	110	.2	<3	<3	105	.30	.066	5	23	.73	183	.12	5	1.02	.11	1.17	2	28	<2	2
C 117657	4	1961	7	62	.6	6	18	383	1.73	2	<8	<2	<2	122	.3	<3	<3	83	.70	.064	7	18	.52	162	.10	<3	.98	.10	.69	<2	21	2	2
C 117658	1	2419	6	43	.9	6	11	276	1.57	<2	<8	<2	2	142	<.2	<3	<3	75	.61	.096	8	20	.47	138	.08	<3	.80	.09	.61	<2	32	<2	<2
C 117659	2	2045	5	55	.6	7	14	482	2.97	2	<8	<2	<2	146	<.2	<3	<3	124	1.10	.114	6	19	.68	164	.12	<3	.94	.11	.71	<2	19	4	2
C 117660	2	430	6	66	<.3	7	9	631	3.46	<2	<8	<2	<2	151	<.2	<3	<3	149	1.53	.111	6	20	.78	107	.12	3	.91	.11	.60	2	5	<2	<2
RE C 117660	1	414	8	65	<.3	6	9	613	3.36	<2	<8	<2	<2	147	<.2	<3	<3	144	1.49	.107	6	20	.76	104	.12	<3	.89	.11	.58	<2	5	3	<2
RRE C 117660	2	418	8	66	<.3	5	9	621	3.37	<2	<8	<2	<2	142	<.2	<3	<3	146	1.51	.110	6	18	.77	91	.12	<3	.85	.09	.52	<2	5	3	<2
C 117661	1	372	6	56	<.3	5	9	506	2.80	<2	<8	<2	<2	149	<.2	<3	<3	116	1.34	.135	6	20	.57	100	.12	<3	.80	.12	.61	<2	9	4	<2
C 117662	2	898	4	79	.5	5	14	779	3.54	<2	<8	<2	<2	157	<.2	<3	<3	161	1.72	.110	5	20	.78	107	.13	<3	.89	.11	.95	<2	32	<2	<2
C 117663	2	1476	3	78	.6	8	14	563	3.25	2	<8	<2	<2	145	.3	<3	<3	152	.94	.145	6	21	.82	155	.16	<3	1.05	.14	1.07	<2	28	<2	2
C 117664	2	1067	<3	42	<.3	5	7	333	1.83	<2	<8	<2	<2	170	<.2	<3	<3	86	.64	.066	5	9	.37	238	.13	4	.81	.14	.93	<2	20	<2	<2
C 117665	2	812	6	68	.3	5	10	541	2.86	<2	<8	<2	<2	162	<.2	<3	<3	145	.67	.089	5	9	.84	216	.17	5	1.18	.15	1.40	<2	12	3	3
C 117666	8	2387	11	35	1.6	5	6	239	1.11	<2	<8	<2	2	127	.5	<3	<3	51	.68	.050	6	9	.21	208	.08	<3	.50	.07	.51	<2	31	<2	<2
C 117667	20	5461	10	62	1.6	9	29	284	3.11	18	<8	<2	<2	189	.5	<3	<3	96	1.02	.118	6	8	.41	105	.12	3	1.03	.09	.59	<2	39	<2	<2
C 117668	1	6768	5	66	3.6	8	10	282	1.69	<2	<8	<2	2	128	.7	<3	<3	80	.53	.074	4	15	.45	117	.11	4	.71	.11	.71	2	207	<2	<2
C 117669	1	1930	5	56	1.0	8	8	414	2.20	<2	<8	<2	2	229	.2	<3	<3	117	.62	.058	4	27	.36	130	.10	<3	.71	.11	.75	<2	56	3	2
C 117670	2	2523	10	62	1.3	9	10	408	2.65	2	<8	<2	4	226	.4	<3	<3	143	.73	.123	6	24	.40	149	.10	<3	.73	.10	.77	2	96	2	<2
C 117671	2	7627	7	139	3.3	21	26	745	3.69	2	<8	<2	4	113	.8	<3	<3	206	1.13	.270	20	26	1.92	124	.16	<3	1.40	.06	1.77	3	177	3	6
C 117672	2	5079	4	147	1.7	26	31	787	3.96	<2	<8	<2	2	158	.8	<3	<3	233	1.27	.228	13	45	2.22	187	.21	<3	1.74	.11	2.07	3	72	2	6
RE C 117672	3	4930	<3	143	1.6	24	30	764	3.86	3	<8	<2	2	162	.7	<3	<3	227	1.24	.230	12	43	2.16	197	.22	<3	1.74	.12	2.07	2	71	3	5
RRE C 117672	4	5125	<3	146	2.0	24	31	776	3.92	2	<8	<2	2	167	.7	<3	<3	231	1.24	.224	12	41	2.21	204	.22	<3	1.81	.12	2.12	2	68	3	6
C 117673	2	6013	5	145	2.6	21	28	802	4.04	3	<8	<2	5	154	1.1	<3	<3	234	1.83	.373	26	43	1.97	112	.12	<3	1.45	.09	1.72	3	126	<2	7
C 117674	2	3258	6	114	.9	32	22	760	3.17	<2	<8	<2	2	163	.5	<3	<3	174	1.00	.177	10	89	2.10	162	.24	<3	1.60	.13	1.98	<2	42	4	2
C 117675	1	430	9	86	<.3	7	12	597	2.99	2	<8	<2	2	174	.2	<3	<3	144	.85	.096	6	23	.93	143	.19	5	1.13	.11	1.00	2	12	<2	<2
C 117676	2	469	<3	95	<.3	6	13	614	3.21	<2	<8	<2	2	189	<.2	<3	<3	159	.94	.113	8	20	.92	153	.18	3	1.17	.12	.97	<2	12	<2	<2
C 117677	4	297	5	84	<.3	6	11	543	3.27	2	<8	<2	<2	242	.2	<3	<3	161	1.01	.099	7	18	.73	125	.14	<3	1.09	.12	.70	2	3	<2	<2
C 117678	2	498	4	73	<.3	6	11	481	2.48	<2	<8	<2	2	194	<.2	<3	<3	120	.73	.078	5	13	.84	232	.16	<3	1.09	.12	1.14	<2	21	2	<2
C 117679	2	5990	8	134	2.5	19	31	685	3.85	<2	<8	<2	<2	140	1.0	<3	<3	167	.78	.077	4	27	2.57	209	.28	4	1.97	.15	2.51	2	192	<2	3
STANDARD DS3/FA-10R	12	133	36	160	<.3	36	13	849	3.27	31	<8	<2	4	31	6.0	6	6	82	.59	.102	20	189	.66	154	.08	4	1.75	.05	.19	5	479	479	475

2001-56

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE R150 60C AU** PT** PD** GROUP 3B BY FIRE ASSAY & ANALYSIS BY ICP-ES. (30 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 21 2001 **DATE REPORT MAILED:** Sept 25/01 **SIGNED BY** .....D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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 ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117680	2	2305	5	95	1.0	21	24	535	3.60	2	<8	<2	<2	130	.5	<3	3	161	1.09	.084	3	48	2.71	194	.33	<3	2.06	.10	2.30	<2	36	4	4
C 117681	5	4532	14	132	3.6	22	34	590	4.71	17	<8	<2	<2	172	1.7	47	<3	185	1.42	.084	3	48	1.83	188	.21	<3	1.67	.05	1.43	3	124	4	6
C 117682	3	6412	108	298	10.9	21	29	631	3.90	5	<8	<2	<2	169	5.5	4	<3	132	1.33	.093	4	49	1.77	168	.25	<3	1.72	.07	1.58	4	603	3	4
C 117683	2	4592	6	91	3.1	17	18	457	2.68	<2	<8	<2	2	139	.9	<3	<3	117	.74	.062	4	45	1.42	188	.23	<3	1.30	.09	1.45	<2	53	<2	2
C 117684	3	3918	8	90	2.4	17	17	500	2.61	<2	<8	<2	<2	151	.7	<3	<3	126	.82	.064	3	44	1.95	262	.25	<3	1.60	.11	1.82	<2	63	5	5
C 117685	11	2905	<3	83	1.0	58	39	554	4.52	4	<8	<2	<2	104	.8	<3	<3	156	.95	.121	5	126	3.21	158	.35	<3	2.07	.08	2.21	<2	40	4	5
C 117686	7	2399	<3	72	.8	123	37	731	4.34	11	<8	<2	<2	158	.5	4	<3	165	1.75	.146	6	265	3.63	258	.39	<3	2.45	.09	2.51	<2	35	7	9
C 117687	10	667	13	209	<.3	5	10	1135	3.70	<2	<8	<2	<2	182	.6	<3	<3	135	1.55	.160	8	21	.89	217	.17	<3	1.19	.08	.79	3	23	3	<2
C 117688	11	2877	8	152	1.0	20	41	1237	6.27	5	<8	<2	<2	202	.8	<3	<3	130	1.51	.244	11	41	1.79	159	.26	<3	2.06	.10	1.34	3	59	7	8
C 117689	7	3120	8	143	1.6	50	46	1271	5.38	2	<8	<2	2	200	.8	<3	<3	210	1.89	.257	17	86	2.94	295	.27	<3	2.60	.07	2.34	<2	93	8	18
C 117690	4	3645	<3	178	2.9	67	53	1486	8.47	<2	<8	<2	<2	267	1.5	<3	<3	405	2.97	.221	17	131	3.30	685	.19	<3	2.88	.06	2.64	<2	48	5	11
RE C 117690	4	3579	5	174	2.5	65	52	1456	8.32	2	<8	<2	<2	264	1.5	<3	<3	399	2.91	.220	16	133	3.24	698	.20	<3	2.80	.06	2.60	<2	47	4	14
RRE C 117690	3	3598	4	174	2.9	65	52	1449	8.27	4	<8	<2	<2	255	1.6	<3	<3	392	2.87	.233	16	131	3.25	697	.21	<3	2.82	.06	2.61	<2	50	6	13
C 117691	6	3837	11	245	1.7	41	46	1510	6.53	<2	<8	<2	<2	518	1.3	<3	<3	250	1.82	.158	9	68	2.47	245	.39	3	2.33	.08	2.27	3	31	3	9
C 117692	5	2722	<3	158	1.3	78	45	1219	5.47	<2	<8	<2	<2	279	1.0	<3	<3	229	1.68	.203	19	165	3.23	628	.32	<3	2.56	.07	2.58	<2	82	6	11
C 117693	1	4042	<3	147	1.9	41	40	991	6.01	<2	<8	<2	<2	167	1.1	<3	<3	282	1.47	.218	10	77	3.20	411	.42	3	2.71	.10	2.42	<2	117	8	16
C 117694	4	1563	11	167	<.3	6	25	1063	4.58	<2	<8	<2	<2	189	.4	<3	<3	162	1.31	.093	5	17	1.35	177	.31	5	1.82	.11	1.03	3	19	3	7
C 117695	14	650	4	150	<.3	11	21	987	3.80	4	<8	<2	3	769	.4	<3	<3	160	2.07	.248	14	24	.66	88	.13	3	1.59	.17	.42	2	7	5	5
C 117696	8	1625	17	115	.9	15	21	936	4.18	3	<8	<2	<2	246	.7	<3	<3	174	1.94	.192	9	36	.86	175	.14	5	1.22	.11	.59	2	62	6	7
C 117697	4	5364	5	130	2.9	68	47	1193	7.21	2	<8	<2	<2	979	1.5	<3	<3	321	2.99	.253	18	133	2.88	384	.14	<3	2.35	.07	2.10	<2	127	3	14
C 117698	2	1666	4	98	1.2	60	42	995	7.14	2	<8	<2	<2	286	.7	<3	<3	329	2.18	.355	19	113	2.29	844	.10	<3	1.97	.07	1.56	<2	69	7	19
C 117699	4	167	4	45	<.3	11	10	490	2.37	2	<8	<2	<2	274	.2	<3	<3	96	1.65	.158	10	42	.65	228	.08	<3	.78	.08	.43	<2	9	2	2
C 117700	1	457	<3	101	.4	101	48	1138	7.58	3	<8	<2	<2	781	.5	<3	<3	300	3.05	.333	20	233	3.12	980	.09	5	2.35	.08	2.22	<2	15	9	14
C 117701	<1	500	3	96	<.3	81	42	917	7.30	4	<8	<2	<2	155	.5	<3	<3	286	2.20	.381	19	182	2.23	476	.10	<3	1.65	.06	1.67	<2	8	8	9
C 117702	1	3963	5	127	2.3	83	51	1065	7.16	<2	<8	<2	<2	127	1.1	<3	<3	288	2.25	.313	20	172	2.57	605	.11	<3	2.04	.06	2.05	<2	54	16	35
RE C 117702	<1	4009	7	126	2.0	84	51	1066	7.13	3	<8	<2	<2	128	.9	<3	<3	289	2.25	.312	20	174	2.57	609	.11	<3	2.05	.06	2.06	<2	50	14	36
RRE C 117702	<1	3893	6	126	2.0	84	50	1068	7.27	<2	<8	<2	<2	126	.8	<3	<3	297	2.26	.311	19	177	2.57	615	.12	<3	2.04	.06	2.05	<2	49	9	36
C 117703	1	164	3	99	<.3	88	43	940	6.50	2	<8	<2	<2	135	.4	<3	<3	243	2.12	.347	17	228	2.58	639	.14	<3	1.92	.05	1.95	<2	4	13	8
C 117704	1	1011	<3	78	.4	104	46	779	5.71	<2	<8	<2	<2	124	.5	<3	<3	213	1.85	.286	16	254	2.87	666	.12	6	2.16	.06	2.20	<2	24	9	19
C 117705	<1	743	<3	76	.3	91	40	780	5.56	2	<8	<2	<2	115	.3	<3	<3	221	1.80	.280	16	235	2.55	598	.12	<3	1.93	.06	1.90	<2	24	8	18
C 117706	<1	321	<3	79	<.3	75	40	863	7.09	2	<8	<2	<2	713	.3	<3	<3	291	2.32	.364	17	158	1.86	370	.08	<3	1.33	.06	1.30	<2	8	7	10
C 117707	<1	1067	4	81	.3	74	39	859	6.84	4	<8	<2	<2	178	.7	<3	<3	281	1.94	.314	15	158	1.99	458	.12	4	1.45	.06	1.43	<2	80	10	23
C 117708	<1	935	4	73	.4	82	37	816	6.00	2	<8	<2	<2	1068	.4	<3	<3	233	1.73	.181	7	204	1.90	470	.27	<3	1.38	.08	1.32	<2	25	7	29
C 117709	<1	80	<3	85	<.3	60	41	936	7.71	2	<8	<2	<2	514	.6	<3	<3	323	2.23	.385	18	91	1.59	577	.10	<3	1.19	.06	1.13	<2	<2	13	14
STANDARD DS3/FA-10R	9	129	33	155	<.3	37	12	806	3.13	27	10	<2	3	29	5.7	5	5	78	.54	.094	18	185	.60	156	.09	5	1.74	.04	.17	4	484	480	476

2001-56

Sample type: CORE R150 60C. 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 ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117710	1	6463	5	86	5.2	82	47	913	7.31	<2	<8	<2	<2	138	.6	<3	<3	316	2.33	.381	22	111	2.33	532	.08	3	1.76	.07	1.58	<2	354	10	31
C 117711	<1	61	<3	87	<.3	54	44	977	9.09	<2	<8	<2	<2	129	<.2	<3	<3	398	2.14	.426	18	89	1.58	284	.08	<3	1.13	.07	1.02	<2	4	5	3
C 117712	2	4424	5	115	1.7	103	57	1107	8.53	2	<8	<2	<2	133	.7	<3	<3	341	2.32	.250	15	182	3.02	429	.15	<3	2.28	.06	2.08	<2	140	10	42
C 117713	4	614	4	106	<.3	12	17	806	5.03	<2	<8	<2	<2	189	<.2	<3	<3	248	1.03	.132	5	34	1.55	212	.28	3	1.67	.12	1.48	<2	28	3	6
C 117714	16	2872	4	101	.5	18	36	831	5.95	<2	<8	<2	<2	71	.2	<3	<3	327	.87	.102	5	26	4.56	192	.50	<3	3.40	.11	3.45	<2	71	3	9
C 117715	14	3076	6	93	1.4	21	34	681	4.96	<2	<8	<2	<2	230	.6	<3	<3	259	1.26	.131	5	37	2.90	400	.43	3	2.57	.12	2.48	<2	83	4	9
C 117716	7	3574	8	102	1.4	20	34	794	5.07	<2	<8	<2	<2	188	.3	<3	<3	190	1.62	.156	8	34	2.93	249	.36	3	2.42	.12	2.23	<2	64	6	11
C 117717	<1	920	<3	68	.5	75	37	731	6.39	<2	<8	<2	<2	123	.2	<3	<3	227	1.82	.314	12	209	1.96	453	.17	4	1.40	.06	1.41	<2	43	10	10
C 117718	2	5042	6	82	3.3	98	51	782	6.81	<2	<8	<2	<2	123	.5	<3	<3	250	2.13	.324	15	190	2.10	415	.12	5	1.55	.06	1.50	<2	132	14	18
C 117719	<1	519	3	76	<.3	65	36	826	7.56	<2	<8	<2	<2	157	<.2	<3	<3	304	2.08	.266	11	178	1.65	342	.13	<3	1.20	.06	1.14	<2	30	3	6
C 117720	1	5950	<3	86	4.1	123	53	806	6.58	2	<8	<2	<2	118	.6	<3	<3	247	2.18	.348	16	153	1.88	237	.10	4	1.42	.06	1.33	<2	211	12	24
RE C 117720	2	5972	3	85	4.4	124	52	809	6.61	5	<8	<2	<2	118	.8	<3	3	248	2.17	.349	17	151	1.89	236	.10	<3	1.42	.06	1.34	<2	223	13	19
RRE C 117720	1	5876	3	89	4.2	124	52	832	7.03	4	<8	<2	<2	121	.7	<3	<3	257	2.28	.347	16	159	1.94	238	.10	<3	1.41	.06	1.34	<2	226	12	21
C 117721	4	490	6	58	<.3	6	16	481	3.58	<2	<8	<2	<2	485	<.2	<3	<3	137	1.54	.193	9	17	.68	189	.12	4	1.31	.17	.33	<2	21	6	7
C 117722	1	858	6	85	.4	55	43	911	8.88	3	<8	<2	<2	162	.3	<3	<3	394	2.41	.425	17	89	1.59	312	.08	<3	1.12	.07	1.03	<2	8	6	9
C 117723	<1	707	<3	85	.4	48	43	946	9.00	2	<8	<2	<2	331	.2	<3	<3	390	3.42	.410	19	72	1.92	270	.08	<3	1.21	.06	1.07	<2	24	4	4
C 117724	1	1409	8	68	.9	29	18	677	3.50	<2	<8	<2	<2	202	.2	<3	<3	176	1.58	.144	6	115	2.05	185	.26	<3	1.68	.14	1.70	<2	55	<2	5
C 117725	2	3012	20	84	1.6	42	41	829	5.33	<2	<8	<2	<2	176	.2	<3	<3	245	1.40	.187	8	60	3.11	477	.37	4	2.51	.11	2.42	<2	56	10	22
C 117726	<1	2257	9	67	1.2	71	47	693	7.70	<2	<8	<2	<2	155	.2	<3	<3	322	2.24	.294	14	166	2.01	506	.08	4	1.40	.07	1.32	<2	48	13	31
C 117727	1	1634	<3	75	.6	69	45	761	7.39	<2	<8	<2	<2	141	<.2	<3	<3	312	2.17	.358	17	163	2.10	475	.08	4	1.45	.07	1.37	<2	28	13	26
C 117728	1	2778	3	73	1.3	78	42	779	7.07	2	<8	<2	<2	104	.3	<3	<3	267	1.90	.306	13	213	1.97	313	.12	4	1.28	.06	1.22	<2	156	10	16
C 117729	1	2885	11	77	1.6	72	41	848	6.53	<2	<8	<2	<2	145	.4	<3	<3	233	2.63	.335	15	175	2.51	404	.10	5	1.51	.05	1.31	<2	132	19	36
C 117730	<1	2993	17	81	1.0	71	45	885	7.35	3	<8	<2	<2	240	.5	<3	<3	280	3.06	.388	15	140	2.35	672	.09	3	1.54	.06	1.26	<2	93	11	37
C 117731	2	428	8	58	.3	15	12	511	3.35	<2	<8	<2	<2	359	.2	<3	<3	141	1.75	.175	11	39	.70	95	.10	<3	.97	.12	.29	<2	22	4	6
C 117732	5	499	9	58	.5	12	12	714	2.87	<2	<8	<2	<2	268	<.2	<3	<3	119	2.67	.151	11	33	.91	73	.08	<3	.92	.09	.30	<2	18	2	2
RE C 117732	5	524	6	60	.5	12	12	745	2.98	<2	<8	<2	<2	276	<.2	<3	<3	124	2.78	.155	12	33	.95	74	.08	<3	.94	.08	.30	<2	18	<2	2
RRE C 117732	6	500	10	75	.5	11	12	764	3.01	2	<8	<2	<2	273	<.2	<3	3	124	2.87	.158	12	40	.95	66	.08	4	.90	.07	.28	<2	25	<2	3
C 117733	7	24	<3	93	<.3	36	29	1176	5.10	<2	<8	<2	2	144	<.2	<3	<3	212	2.77	.296	17	98	1.66	97	.16	<3	1.23	.07	.95	2	<2	6	7
C 117734	4	21	4	66	<.3	13	12	848	2.80	9	<8	<2	<2	588	<.2	<3	<3	35	1.79	.161	14	26	1.00	138	.09	<3	1.14	.10	.74	2	<2	2	<2
C 117735	2	50	4	65	.3	13	12	908	2.92	7	<8	<2	<2	760	<.2	<3	<3	44	2.12	.161	14	30	.87	188	.07	<3	1.02	.09	.66	<2	27	<2	<2
C 117736	2	55	4	69	.3	17	15	1085	3.50	<2	<8	<2	<2	1187	<.2	<3	<3	129	3.28	.161	11	37	.95	280	.08	<3	1.08	.08	.64	<2	26	3	2
C 117737	2	133	5	74	.5	26	19	899	3.81	3	<8	<2	<2	1046	<.2	<3	<3	140	2.53	.215	12	59	1.36	480	.16	<3	1.32	.12	.98	<2	77	3	2
C 117738	1	183	<3	45	<.3	20	18	596	3.57	2	<8	<2	<2	543	<.2	<3	<3	142	2.32	.196	10	52	1.26	319	.17	5	1.11	.13	.78	<2	3	<2	6
C 117739	<1	261	7	57	.4	41	32	1042	5.33	<2	<8	<2	<2	328	<.2	<3	<3	228	4.77	.247	16	114	2.45	560	.14	<3	1.60	.06	1.23	<2	12	4	11
STANDARD DS3/FA-10R	9	125	36	160	.3	36	12	834	3.24	30	12	<2	4	30	5.6	5	6	81	.56	.095	18	188	.62	163	.09	3	1.82	.04	.18	4	477	475	473

2001-56

Sample type: CORE R150 60C. 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 ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117740	2	373	3	61	.3	38	26	1232	5.04	2	<8	<2	<2	219	.5	<3	<3	195	6.06	.290	13	86	2.43	455	.18	3	1.63	.06	.74	<2	8	2	11
C 117741	2	297	3	52	.4	45	23	604	5.23	2	<8	<2	<2	120	.3	<3	<3	225	1.85	.237	13	140	1.88	274	.17	<3	1.19	.08	1.14	<2	16	7	17
C 117742	2	199	<3	33	<.3	21	18	450	4.02	<2	<8	<2	<2	298	<.2	<3	<3	167	1.72	.227	11	53	1.02	295	.17	<3	1.07	.12	.58	<2	<2	4	7
C 117743	2	150	3	37	<.3	21	19	389	3.35	<2	<8	<2	2	133	<.2	<3	<3	128	1.55	.184	9	59	1.22	253	.19	<3	1.36	.12	.70	<2	5	2	5
C 117744	4	159	<3	58	<.3	42	18	790	4.11	<2	<8	<2	<2	1239	<.2	<3	<3	150	2.77	.200	12	98	1.53	282	.19	<3	1.40	.11	1.00	<2	4	5	9
C 117745	3	16	4	61	<.3	59	20	768	4.15	3	<8	<2	<2	231	<.2	<3	<3	140	1.93	.210	11	123	2.06	268	.26	3	1.55	.11	1.32	<2	4	<2	2
C 117746	3	377	6	54	<.3	21	21	597	4.70	3	<8	<2	<2	186	.3	<3	<3	191	1.89	.217	10	50	1.27	231	.24	<3	1.41	.10	.70	<2	4	2	6
C 117747	3	154	5	29	<.3	10	11	411	3.78	<2	<8	<2	<2	180	<.2	<3	<3	175	1.70	.172	9	37	.70	109	.14	<3	.93	.13	.38	<2	<2	4	4
C 117748	3	533	6	50	<.3	19	19	571	3.99	2	<8	<2	2	464	<.2	<3	<3	169	2.33	.178	9	37	.79	198	.13	<3	1.10	.11	.42	<2	4	6	11
RE C 117748	3	543	7	49	<.3	19	20	580	4.07	2	<8	<2	2	476	<.2	<3	<3	171	2.36	.182	9	38	.80	206	.14	<3	1.12	.12	.43	<2	7	4	10
RRE C 117748	4	549	10	49	<.3	19	20	580	4.12	2	<8	<2	2	442	<.2	<3	<3	174	2.34	.185	10	42	.80	195	.14	<3	1.11	.10	.42	<2	6	4	8
C 117749	<1	10	3	95	<.3	88	47	882	4.88	3	<8	<2	2	288	<.2	<3	<3	209	2.70	.330	28	155	4.42	1458	.13	4	3.12	.09	3.13	<2	<2	4	<2
C 117750	6	203	6	70	<.3	16	13	526	3.57	2	8	<2	2	434	<.2	<3	<3	167	1.47	.176	9	50	.66	220	.13	<3	.86	.11	.45	<2	11	2	8
C 117751	1	105	6	94	.3	65	30	925	4.13	<2	<8	<2	2	188	<.2	<3	<3	171	2.25	.291	22	141	3.04	571	.14	<3	1.93	.08	2.09	<2	6	4	12
C 117752	3	289	14	54	<.3	12	10	486	2.90	2	<8	<2	2	188	<.2	<3	<3	131	1.23	.163	9	33	.45	126	.11	5	.57	.11	.41	<2	5	<2	2
C 117753	2	200	7	81	<.3	10	9	672	3.31	<2	<8	<2	<2	219	<.2	<3	<3	157	1.02	.087	6	29	.40	103	.13	<3	.62	.11	.39	2	15	<2	<2
C 117754	4	272	10	104	.3	12	11	794	4.77	<2	<8	<2	<2	163	.3	<3	<3	234	.84	.058	4	24	.28	92	.13	4	.57	.09	.36	<2	20	<2	3
C 117755	4	289	6	109	<.3	12	10	726	4.58	<2	<8	<2	<2	160	<.2	<3	<3	209	.79	.044	4	39	.24	75	.15	<3	.52	.08	.30	<2	15	<2	3
C 117756	4	683	15	75	.5	10	8	522	2.95	<2	<8	<2	<2	154	.3	<3	<3	126	.90	.064	5	25	.24	64	.11	<3	.52	.08	.27	2	56	4	5
STANDARD DS3/FA-10R	10	126	37	161	<.3	37	13	842	3.25	30	11	<2	5	29	5.7	6	5	80	.56	.096	18	181	.62	162	.09	3	1.81	.04	.18	4	453	461	452

2031-56

Sample type: CORE R150 60C. 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 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Eastfield Resources Ltd. File # A103252 Page 1

110 - 325 Howe St., Vancouver BC V6C 1Z7 Submitted by: Jay W. Page

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	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	Au** ppb	Pt** ppb	Pd** ppb
SI	1	4	<3	1	<.3	1	<1	5	.04	<2	<8	<2	<2	4	<.2	<3	<3	<1	.16	.001	<1	3	<.01	5	<.01	3	.01	.70	.01	<2	<2	2	<2
C 117801	2	451	5	76	<.3	8	11	810	3.04	3	<8	<2	2	206	.4	<3	<3	128	1.53	.145	11	27	.54	90	.09	<3	.97	.09	.36	<2	21	<2	4
C 117802	2	2201	8	108	1.1	8	10	957	2.74	2	<8	<2	4	159	.6	<3	<3	124	1.54	.108	13	28	.54	125	.11	3	.85	.08	.33	2	97	5	6
C 117803	2	3335	9	147	2.0	8	12	1273	3.24	3	<8	<2	3	221	1.0	<3	<3	145	1.98	.101	13	30	.71	155	.11	3	1.03	.09	.40	3	67	3	4
C 117804	2	746	5	72	<.3	7	9	766	2.14	3	<8	<2	2	217	.2	<3	<3	91	1.74	.094	11	29	.49	151	.10	4	.91	.09	.35	2	29	2	<2
C 117805	7	293	7	68	<.3	6	9	751	2.66	2	<8	<2	3	317	.3	<3	<3	115	1.46	.110	12	14	.44	105	.10	4	1.28	.16	.39	<2	11	2	5
C 117806	2	975	5	94	.4	8	13	1041	2.79	2	<8	<2	2	310	.4	<3	<3	110	2.88	.064	11	23	.53	159	.10	3	.89	.07	.38	2	28	3	3
C 117807	2	664	6	96	<.3	6	9	925	2.64	<2	<8	<2	4	223	.4	<3	<3	121	2.27	.121	15	24	.36	269	.08	<3	.70	.08	.35	<2	27	<2	2
C 117808	2	1143	7	97	<.3	7	9	717	2.42	2	<8	<2	4	157	.3	<3	<3	104	.98	.097	14	24	.36	143	.09	<3	.65	.06	.31	3	44	<2	3
C 117809	1	1146	4	119	.6	14	18	1221	4.12	2	<8	<2	2	222	.4	<3	<3	167	2.22	.171	15	29	1.09	229	.14	<3	1.17	.08	.68	3	46	5	4
C 117810	2	8199	4	105	6.8	9	12	966	2.92	3	<8	<2	2	252	1.0	<3	<3	113	2.04	.115	15	28	.74	271	.08	<3	.98	.06	.64	2	382	5	3
RE C 117810	3	8054	5	105	7.0	8	12	952	2.87	3	<8	<2	2	250	1.1	<3	<3	110	2.02	.115	14	28	.73	270	.08	<3	.98	.06	.64	2	414	4	5
RRE C 117810	2	8318	5	107	6.9	8	12	970	2.91	3	<8	<2	3	246	1.0	<3	<3	112	2.05	.117	15	26	.74	263	.08	<3	.95	.05	.61	2	400	<2	5
C 117811	3	5634	7	135	2.9	10	13	1169	3.32	3	<8	<2	3	293	.7	<3	<3	156	1.59	.117	13	34	.85	264	.12	<3	1.21	.07	.52	2	124	2	4
C 117812	5	8473	12	136	5.5	11	13	1118	2.95	3	<8	<2	3	213	1.1	<3	<3	123	1.55	.094	12	29	.90	191	.13	<3	1.16	.07	.51	2	235	4	6
C 117813	3	2738	11	135	1.7	9	13	1140	2.92	2	<8	<2	3	310	.5	<3	<3	133	1.87	.113	12	31	.87	193	.12	3	1.17	.06	.59	2	58	3	3
C 117814	4	6276	3	126	3.3	9	13	1120	3.58	2	<8	<2	3	441	.9	<3	4	160	1.80	.116	15	29	.72	200	.12	<3	1.39	.11	.53	2	156	4	4
C 117815	9	11149	10	106	6.4	9	12	982	2.97	<2	<8	<2	3	411	.7	<3	<3	139	1.56	.127	16	34	.78	90	.11	3	1.36	.11	.46	2	285	3	6
C 117816	2	1461	<3	91	.4	9	11	930	2.37	2	<8	<2	2	453	.2	<3	<3	107	1.59	.099	11	27	.70	253	.10	4	1.25	.09	.53	<2	29	4	3
C 117817	3	1488	5	105	.5	8	12	938	2.31	<2	<8	<2	3	258	.2	<3	<3	104	1.39	.095	9	26	.70	212	.10	<3	1.14	.07	.44	2	36	<2	6
C 117818	2	1045	<3	106	<.3	9	11	885	2.38	<2	<8	<2	2	225	<.2	<3	<3	111	1.45	.099	11	26	.62	122	.11	7	.97	.08	.47	3	27	2	2
C 117819	3	2574	5	95	1.2	8	10	736	2.03	2	<8	<2	3	185	.5	<3	<3	102	1.11	.105	12	20	.51	121	.10	<3	.75	.06	.40	2	77	4	5
C 117820	3	3190	62	147	3.2	9	9	701	2.09	<2	<8	<2	5	139	1.7	<3	<3	101	1.96	.107	12	27	.36	117	.06	3	.57	.05	.41	3	184	4	3
C 117821	4	385	3	62	.6	6	6	554	1.73	<2	<8	<2	3	109	.4	<3	<3	70	1.48	.085	8	29	.29	82	.05	<3	.53	.04	.40	2	117	6	3
C 117822	2	249	<3	14	<.3	4	2	151	.47	<2	<8	<2	5	35	<.2	<3	<3	16	.30	.015	4	47	.05	78	.02	5	.21	.06	.23	<2	7	<2	<2
RE C 117822	2	257	4	15	<.3	4	2	153	.48	<2	<8	<2	5	36	.2	<3	<3	16	.30	.015	4	48	.05	80	.02	3	.21	.06	.23	<2	12	<2	<2
RRE C 117822	2	254	<3	14	<.3	2	2	146	.45	<2	<8	<2	5	35	<.2	<3	<3	17	.29	.015	4	37	.05	78	.02	3	.21	.06	.23	<2	12	2	2
C 117823	2	841	4	100	<.3	8	13	981	2.11	3	<8	<2	2	220	.2	<3	<3	96	1.56	.149	15	30	.81	142	.11	3	1.08	.07	.47	2	25	<2	7
C 117824	7	5238	7	112	2.9	9	14	976	3.58	<2	<8	<2	3	181	.6	<3	<3	169	1.35	.112	13	29	.65	133	.11	<3	1.03	.08	.41	2	188	2	4
C 117825	2	1824	<3	101	.9	15	17	1014	3.02	3	<8	<2	2	214	.3	<3	<3	130	1.97	.188	15	34	.92	173	.11	<3	1.02	.06	.54	2	89	6	8
C 117826	3	2319	<3	111	.8	9	13	966	2.52	2	<8	<2	3	232	.4	<3	<3	115	1.53	.130	13	29	.78	162	.11	<3	1.06	.08	.61	2	119	3	2
C 117827	2	1010	3	66	.5	6	8	806	2.00	<2	<8	<2	3	146	.2	<3	<3	91	1.94	.057	9	25	.37	100	.08	<3	.56	.06	.34	2	48	2	2
C 117828	4	1643	<3	90	.6	8	13	900	2.92	<2	<8	<2	2	445	.2	<3	<3	144	1.64	.090	10	28	.64	63	.10	<3	1.33	.18	.39	2	44	6	2
C 117829	5	1390	3	70	.3	7	9	639	2.54	<2	<8	<2	3	479	<.2	<3	<3	132	1.60	.131	14	25	.39	67	.09	<3	1.55	.30	.38	2	41	2	2
STANDARD DS3/FA-10R	10	126	35	160	<.3	38	12	863	3.25	29	<8	<2	4	30	5.6	5	4	80	.57	.096	19	186	.62	156	.10	4	1.82	.04	.18	4	485	480	474

2001-57

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE R150 60C AU** PT** PD** GROUP 3B BY FIRE ASSAY & ANALYSIS BY ICP-ES. (30 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 21 2001 **DATE REPORT MAILED:** Sept 25/01 **SIGNED BY** ..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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 ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117830	3	1442	4	125	.3	5	11	798	3.62	<2	<8	<2	2	413	.3	<3	<3	194	1.14	.094	11	18	.34	78	.12	4	1.11	.18	.45	3	36	<2	<2
C 117831	4	1612	5	94	.6	5	11	717	3.05	<2	<8	<2	2	480	.3	<3	<3	151	1.27	.109	10	24	.44	176	.10	<3	1.21	.17	.69	2	30	<2	2
C 117832	3	1330	4	100	.4	9	11	696	3.61	<2	<8	<2	<2	301	<.2	<3	<3	169	.99	.038	5	34	.33	285	.11	<3	.92	.13	.68	<2	45	2	4
C 117833	2	2990	7	152	1.8	10	17	1020	4.37	<2	<8	<2	<2	587	.2	<3	<3	205	1.31	.106	10	32	.78	168	.14	<3	1.37	.11	.71	2	58	6	4
C 117834	3	3184	5	135	1.3	12	18	995	4.91	<2	<8	<2	<2	256	.3	<3	<3	221	1.60	.155	12	35	.86	106	.13	<3	1.48	.13	.57	2	78	2	5
C 117835	2	2971	<3	136	1.5	15	22	1106	4.13	<2	<8	<2	2	198	.3	<3	<3	182	1.59	.207	16	39	1.03	190	.14	<3	1.25	.10	.83	2	106	6	9
C 117836	3	1035	3	60	.3	13	16	804	2.70	<2	<8	<2	2	182	.2	<3	<3	107	2.52	.176	13	31	.93	209	.11	<3	1.18	.09	.80	2	42	5	17
C 117837	5	4587	<3	102	1.9	9	14	796	3.91	2	<8	<2	3	175	.4	<3	<3	199	1.99	.176	14	23	.54	207	.09	<3	.94	.10	.63	2	193	4	4
C 117838	4	5085	6	114	2.1	10	15	750	4.39	2	<8	<2	3	605	.2	<3	<3	230	1.46	.211	17	28	.46	172	.12	<3	1.17	.15	.52	2	117	4	9
C 117839	5	1017	4	60	.4	8	9	510	2.57	<2	<8	<2	2	454	.2	<3	<3	105	1.60	.190	15	29	.32	54	.10	<3	1.65	.32	.34	2	65	3	5
C 117840	2	769	3	70	<.3	46	23	683	4.08	3	<8	<2	2	508	<.2	<3	<3	141	1.91	.245	16	131	1.40	166	.16	5	1.69	.16	.91	<2	44	5	8
RE C 117840	1	794	8	73	.4	47	24	702	4.19	2	<8	<2	2	520	.2	<3	<3	147	1.96	.250	16	137	1.43	170	.17	3	1.73	.17	.93	<2	39	3	10
RRE C 117840	2	743	6	72	<.3	44	23	683	4.13	<2	<8	<2	2	520	.2	<3	<3	143	1.92	.250	16	131	1.40	159	.16	<3	1.69	.16	.89	<2	43	<2	9
C 117841	1	586	4	38	<.3	6	6	378	1.49	<2	<8	<2	3	127	<.2	<3	<3	50	.91	.084	10	21	.23	104	.06	<3	.55	.12	.52	<2	63	2	6
C 117842	5	972	6	38	<.3	7	6	308	1.65	<2	<8	<2	5	270	.3	<3	<3	64	1.26	.178	17	25	.15	42	.06	<3	1.14	.26	.23	2	80	2	11
C 117843	2	57	<3	78	<.3	61	27	740	4.34	4	<8	<2	3	349	<.2	<3	<3	159	1.77	.299	23	147	1.82	259	.21	7	2.05	.26	1.39	<2	15	<2	14
C 117844	3	132	<3	50	<.3	14	11	512	2.64	3	<8	<2	3	423	<.2	<3	<3	98	1.52	.209	13	37	.55	142	.08	4	1.12	.20	.43	<2	10	<2	6
C 117845	<1	51	3	68	<.3	126	39	771	5.04	<2	<8	<2	<2	156	<.2	<3	<3	124	1.27	.171	13	315	2.85	286	.23	3	1.83	.10	1.87	<2	6	10	2
C 117846	1	188	<3	81	<.3	108	35	868	4.64	3	<8	<2	2	207	.2	<3	<3	130	1.69	.207	16	246	2.46	208	.21	6	1.67	.10	1.63	<2	7	9	4
C 117847	3	642	<3	46	<.3	13	10	468	2.08	3	<8	<2	3	911	<.2	<3	<3	73	1.63	.192	12	31	.54	230	.06	5	1.49	.29	.33	2	38	<2	5
C 117848	2	49	<3	65	<.3	144	44	972	5.15	2	<8	<2	<2	253	<.2	<3	<3	125	2.41	.142	10	347	3.48	373	.21	3	1.88	.08	1.76	<2	68	9	<2
C 117849	<1	60	5	69	<.3	145	42	943	4.71	<2	<8	<2	2	190	<.2	<3	<3	109	1.78	.084	8	352	3.35	311	.19	8	1.92	.10	1.84	<2	39	8	5
C 117850	2	16	<3	51	<.3	69	29	845	3.23	4	<8	<2	2	436	<.2	<3	<3	98	1.84	.102	8	156	2.22	211	.15	9	2.26	.24	1.63	<2	<2	<2	3
C 117851	1	12	<3	55	<.3	59	27	928	3.66	4	<8	<2	2	229	<.2	<3	3	117	2.59	.114	11	144	2.23	201	.17	7	2.26	.17	1.67	<2	<2	4	3
C 117852	1	96	5	88	<.3	46	30	1297	4.32	3	<8	<2	3	192	<.2	<3	<3	124	2.83	.262	20	99	1.87	110	.15	3	1.80	.06	1.30	<2	6	4	6
STANDARD DS3/FA-10R	9	120	36	152	<.3	36	12	827	3.13	31	9	<2	4	28	5.4	6	6	76	.53	.093	17	181	.59	162	.09	3	1.70	.04	.17	4	480	467	468

2001-54

Sample type: CORE R150 60C. 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 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Eastfield Resources Ltd. File # A103563 Page 1
110 - 325 Howe St., Vancouver BC V6C 1Z7 Submitted by: Jay W. Page

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	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	Au** ppb	Pt** ppb	Pd** ppb
SI	<1	<1	3	1	<.3	<1	<1	<2	.02	<2	<8	<2	<2	2	<.2	<3	<3	<1	.09	<.001	<1	3	<.01	2	<.01	4	<.01	.45	<.01	<2	<2	<2	<2
C 117853	5	7179	28	518	8.4	9	21	1991	5.20	12	<8	<2	16	194	5.6	<3	3	324	3.94	.653	58	20	.87	46	.08	6	1.20	.08	.24	8	16	2	<2
C 117854	9	4771	22	411	5.6	7	16	2027	3.23	6	<8	<2	8	169	4.7	<3	3	155	4.01	.303	29	12	.99	39	.08	<3	1.12	.05	.20	6	27	<2	<2
C 117855	7	3078	12	345	4.0	6	14	2086	2.71	4	<8	<2	5	148	2.6	<3	<3	131	4.00	.217	21	18	1.10	45	.11	<3	1.19	.05	.26	5	36	3	2
C 117856	2	1619	12	218	1.6	5	15	1515	3.39	2	<8	<2	8	157	.8	<3	5	112	2.36	.244	23	10	.69	65	.06	<3	.85	.04	.30	4	10	<2	<2
C 117857	9	2406	14	271	.9	7	12	1262	1.66	2	<8	<2	5	210	2.0	<3	<3	69	2.25	.156	16	15	.88	50	.09	<3	1.11	.08	.35	4	23	2	2
C 117858	4	2417	18	174	.9	5	11	751	1.38	4	<8	<2	4	340	2.0	<3	<3	57	1.96	.152	16	13	.53	48	.08	<3	1.34	.38	.21	3	24	3	4
C 117859	6	4694	16	224	2.6	8	12	574	1.44	5	<8	<2	5	434	3.7	<3	<3	52	1.68	.153	16	14	.34	66	.08	<3	1.27	.33	.20	4	52	6	<2
C 117860	5	3540	29	181	2.5	7	10	645	2.11	<2	<8	<2	<2	384	2.1	<3	<3	107	1.09	.017	4	18	.31	54	.09	<3	1.08	.27	.21	3	48	6	3
C 117861	8	4631	31	256	3.7	8	13	1092	2.28	<2	<8	<2	<2	210	2.7	<3	3	96	2.20	.030	8	19	.63	94	.08	<3	.85	.06	.24	4	54	<2	5
C 117862	13	5686	30	308	5.2	9	16	1191	2.46	<2	<8	<2	<2	182	3.2	<3	<3	105	2.48	.024	6	18	.64	50	.09	<3	.85	.04	.22	4	130	3	2
RE C 117862	12	5642	33	307	5.2	9	16	1185	2.46	<2	<8	<2	<2	180	3.3	<3	<3	106	2.47	.024	6	10	.64	49	.09	<3	.85	.04	.21	5	125	4	6
RRE C 117862	12	5654	32	304	6.0	9	16	1197	2.50	<2	<8	<2	<2	184	3.2	<3	3	105	2.47	.025	6	14	.64	52	.09	<3	.87	.05	.23	5	120	3	4
C 117863	8	6988	76	185	5.1	12	18	862	2.14	3	<8	<2	<2	293	4.5	<3	6	57	2.90	.072	8	17	.64	96	.05	<3	1.06	.15	.26	3	82	<2	5
C 117864	1	524	3	96	<.3	78	43	1103	5.68	<2	<8	<2	<2	310	<.2	<3	<3	189	3.30	.266	16	119	2.49	236	.22	3	1.89	.13	1.46	<2	54	7	9
C 117865	3	54	4	66	<.3	50	28	902	3.21	<2	<8	<2	<2	307	.2	<3	<3	112	2.29	.152	10	142	2.21	184	.20	5	1.61	.13	1.27	<2	9	6	9
C 117866	3	329	7	63	<.3	11	16	983	3.63	2	<8	<2	<2	439	<.2	<3	<3	200	2.76	.200	12	29	1.05	209	.13	5	1.08	.10	.60	2	42	5	14
C 117867	3	453	8	63	<.3	8	14	917	3.39	<2	<8	<2	<2	504	<.2	<3	<3	198	2.45	.186	13	24	1.10	148	.10	3	1.07	.09	.38	2	90	4	10
C 117868	17	206	6	61	<.3	8	14	958	2.80	<2	<8	<2	<2	414	<.2	<3	<3	131	3.22	.136	10	11	1.02	340	.03	<3	1.01	.04	.35	<2	36	4	14
C 117869	8	272	4	84	<.3	20	23	1255	4.12	<2	<8	<2	<2	1508	<.2	<3	<3	186	3.63	.181	11	48	1.64	454	.13	<3	1.20	.05	.97	<2	60	5	12
C 117870	4	1044	4	88	<.3	15	22	1322	4.33	2	8	<2	<2	3774	<.2	<3	<3	238	2.65	.210	13	32	1.46	240	.14	4	1.13	.07	.62	3	139	8	25
C 117871	3	586	6	65	.5	8	15	942	3.00	2	<8	<2	3	1194	<.2	<3	<3	143	2.79	.180	13	20	.86	352	.07	<3	.74	.05	.52	<2	43	6	9
C 117872	2	958	7	65	.4	10	16	1043	3.62	<2	<8	<2	<2	444	<.2	<3	<3	175	3.57	.191	12	24	.85	420	.06	<3	.64	.06	.53	2	29	6	23
C 117873	6	682	5	75	1.0	16	22	1379	4.72	<2	<8	<2	<2	386	<.2	<3	3	230	4.81	.231	13	34	1.29	388	.08	<3	.91	.04	.47	2	60	4	9
C 117874	6	281	20	76	<.3	23	22	1431	4.14	<2	<8	<2	<2	395	<.2	<3	<3	188	5.13	.197	12	63	1.73	147	.11	<3	1.04	.04	.57	2	151	5	11
RE C 117874	7	276	16	75	<.3	23	21	1416	4.09	3	<8	<2	<2	390	.2	<3	<3	184	5.08	.196	12	60	1.71	145	.11	3	1.02	.04	.56	<2	61	3	10
RRE C 117874	6	296	13	77	<.3	23	22	1414	4.04	3	<8	<2	<2	388	<.2	<3	<3	184	5.09	.199	12	56	1.73	142	.11	<3	1.01	.04	.55	3	63	4	11
C 117875	4	265	5	128	.4	32	29	1519	4.83	3	<8	<2	2	462	<.2	<3	3	205	5.93	.403	23	80	2.52	310	.10	3	1.46	.04	.51	2	11	2	13
C 117876	4	511	7	73	<.3	12	18	957	3.32	<2	<8	<2	<2	330	.2	<3	3	160	3.47	.198	12	27	1.39	195	.07	3	.97	.04	.36	2	26	5	11
C 117877	11	270	6	110	.6	33	32	1883	6.10	3	<8	<2	<2	444	<.2	<3	<3	280	9.16	.354	19	76	2.79	79	.09	6	1.74	.02	.37	4	6	4	12
C 117878	9	246	6	89	.7	32	35	1388	6.87	<2	<8	<2	<2	384	<.2	<3	<3	252	5.66	.368	19	57	2.05	131	.11	6	1.32	.04	.99	<2	2	<2	7
C 117879	2	178	<3	91	.4	44	38	1390	7.26	4	<8	<2	<2	377	<.2	<3	<3	248	6.04	.420	22	72	2.36	98	.10	7	1.51	.04	1.13	<2	<2	3	16
C 117880	2	3104	15	170	1.2	8	31	891	2.34	2	<8	<2	2	440	2.1	<3	<3	69	3.56	.247	15	18	.87	419	.07	<3	.69	.06	.52	3	19	4	9
C 117881	3	2852	12	177	1.4	8	32	802	3.18	4	<8	<2	3	259	2.0	<3	<3	109	2.14	.109	8	18	.60	406	.04	<3	.47	.04	.30	4	80	3	8
STANDARD DS3/FA-10R	9	122	35	161	<.3	34	12	822	3.21	33	10	<2	4	29	5.7	6	7	80	.56	.097	18	184	.62	144	.09	3	1.79	.04	.17	2	479	470	490

2001-58

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE R150 60C AU** PT** PD** GROUP 3B BY FIRE ASSAY & ANALYSIS BY ICP-ES. (30 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: OCT 9 2001 **DATE REPORT MAILED:** Oct 17/01 **SIGNED BY.....** C. Leong .D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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 ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117882	4	2837	6	95	2.5	41	29	1214	2.99	3	<8	<2	<2	443	.5	<3	<3	90	4.77	.328	17	91	2.01	454	.12	<3	.89	.08	.94	<2	45	8	30
C 117883	2	1383	<3	92	1.8	59	34	936	5.81	3	<8	<2	<2	160	.3	<3	<3	222	2.00	.363	18	143	1.96	789	.10	<3	1.48	.06	1.51	<2	53	4	14
C 117884	<1	2605	<3	122	1.9	32	54	1251	8.39	<2	<8	<2	<2	156	.6	<3	<3	353	2.20	.379	24	67	2.67	1507	.08	<3	2.34	.08	2.33	<2	17	5	18
C 117885	1	974	<3	95	.8	8	45	1172	7.76	2	8	<2	<2	389	.4	<3	3	317	1.98	.317	18	10	1.93	1765	.11	5	1.82	.06	1.69	2	4	<2	3
C 117886	3	160	<3	98	<.3	81	39	1075	5.72	<2	8	<2	<2	181	<.2	<3	<3	197	2.06	.261	12	149	2.47	521	.13	<3	1.99	.06	2.03	<2	<2	3	4
C 117887	3	279	4	62	<.3	5	21	699	4.83	<2	<8	<2	<2	445	<.2	<3	<3	209	.95	.232	10	10	.74	556	.15	4	.93	.08	.74	<2	<2	3	<2
C 117888	<1	2836	<3	112	2.2	9	39	923	6.92	2	<8	<2	<2	240	.5	<3	<3	303	1.54	.330	19	15	1.42	584	.11	3	1.49	.07	1.30	2	109	6	5
C 117889	<1	24665	8	142	28.0	23	35	723	7.94	5	<8	<2	9	306	4.6	<3	10	472	2.52	.808	49	36	.60	156	.04	9	.75	.06	.62	3	367	<2	5
C 117890	4	4849	5	19	4.5	5	6	166	1.02	<2	<8	<2	3	110	.9	<3	3	40	.68	.095	7	13	.08	458	.03	<3	.20	.04	.20	2	92	<2	<2
C 117891	6	41832	19	147	47.6	31	37	701	5.45	2	<8	<2	2	258	8.5	<3	7	180	1.89	.402	21	31	.98	106	.12	<3	1.07	.06	.73	4	352	<2	7
C 117892	1	371	3	54	.5	34	20	523	2.83	<2	<8	<2	<2	129	<.2	<3	<3	99	1.14	.108	5	158	1.38	219	.21	<3	1.12	.08	1.12	<2	11	3	3
RE C 117892	2	358	6	54	<.3	34	20	519	2.82	<2	<8	<2	<2	129	<.2	<3	<3	98	1.14	.109	5	160	1.37	218	.21	<3	1.12	.08	1.10	2	8	2	2
RRE C 117892	1	428	8	56	.3	35	20	535	2.90	<2	<8	<2	<2	139	<.2	<3	<3	99	1.20	.107	5	165	1.40	227	.21	<3	1.13	.08	1.11	<2	4	10	2
C 117893	2	904	4	58	<.3	25	22	683	4.66	<2	<8	<2	<2	339	<.2	<3	<3	201	1.49	.296	13	63	1.21	549	.16	<3	1.28	.08	1.07	2	46	<2	20
C 117894	<1	316	<3	85	.8	20	27	803	6.91	5	12	<2	<2	798	.2	<3	<3	409	1.89	.409	18	48	.94	489	.09	10	1.35	.24	.79	<2	25	5	21
C 117895	1	592	<3	95	.5	41	36	989	6.95	<2	<8	<2	<2	1288	<.2	<3	<3	353	1.94	.349	17	86	1.77	1069	.12	5	1.95	.14	1.53	<2	27	5	23
C 117896	3	1036	<3	95	.6	40	35	1054	6.18	<2	<8	<2	<2	2469	<.2	<3	<3	273	2.07	.353	20	87	1.98	895	.13	<3	2.62	.31	1.77	2	31	3	16
C 117897	5	17	<3	8	<.3	4	2	109	.34	2	<8	<2	4	85	<.2	<3	<3	6	.37	.011	3	12	.06	499	.02	<3	.17	.05	.20	2	<2	<2	<2
C 117898	1	583	3	87	.4	77	36	916	6.29	<2	<8	<2	<2	235	.2	<3	<3	263	1.43	.286	16	158	2.50	971	.20	<3	2.32	.08	2.25	<2	14	2	10
C 117899	2	988	<3	87	.8	74	35	931	5.59	3	8	<2	<2	306	<.2	<3	<3	239	1.65	.284	15	162	2.34	908	.17	5	2.10	.08	1.97	<2	19	4	13
C 117900	2	1963	5	93	1.1	59	38	958	6.01	3	<8	<2	<2	770	.5	<3	<3	258	1.69	.322	17	130	2.14	1009	.15	4	2.08	.10	1.78	<2	25	7	20
C 117901	3	456	4	63	<.3	75	33	733	4.48	2	<8	<2	<2	481	<.2	<3	<3	178	1.45	.319	16	155	2.39	573	.21	<3	2.04	.09	1.94	<2	19	9	16
C 117902	4	1026	<3	71	<.3	15	15	638	3.32	<2	<8	<2	<2	977	.2	<3	<3	142	1.31	.188	9	45	.64	273	.14	<3	1.33	.26	.55	2	21	2	8
C 117903	3	8923	6	134	6.7	41	40	1026	8.33	3	<8	<2	3	157	1.9	<3	<3	391	2.55	.518	27	92	1.51	288	.06	4	1.27	.06	.96	2	206	5	21
C 117904	3	10117	16	220	7.0	15	21	772	4.31	3	<8	<2	<2	215	5.0	<3	<3	221	.86	.075	5	38	.29	111	.13	4	.78	.19	.39	3	223	5	4
RE C 117904	4	9972	20	217	6.5	15	21	763	4.26	4	11	<2	<2	213	4.8	<3	5	219	.85	.072	5	30	.28	110	.13	5	.78	.19	.38	4	231	6	7
RRE C 117904	3	10220	18	220	6.7	14	21	743	4.15	<2	10	<2	<2	204	4.6	<3	<3	212	.87	.075	5	32	.28	86	.12	4	.73	.18	.31	3	240	2	4
C 117905	13	980	4	149	.3	14	11	814	2.75	3	9	<2	<2	972	.5	<3	<3	115	1.60	.122	8	42	.48	52	.11	<3	1.42	.26	.40	3	40	3	2
C 117906	11	350	3	93	<.3	9	9	621	2.62	2	12	<2	<2	509	.2	<3	<3	117	1.49	.116	8	28	.26	35	.09	<3	1.89	.51	.31	3	34	4	3
C 117907	5	6689	14	345	3.4	11	26	988	4.63	8	<8	<2	6	113	2.8	<3	3	299	1.35	.317	23	26	.46	72	.12	3	.68	.06	.50	5	134	2	3
C 117908	3	5809	16	188	3.9	10	18	867	4.03	15	<8	<2	9	146	2.2	<3	<3	255	1.70	.421	29	27	.30	51	.09	<3	.65	.07	.32	4	91	4	2
C 117909	5	6065	9	174	4.1	11	17	914	4.34	6	<8	<2	8	138	2.1	<3	<3	272	1.81	.431	30	31	.29	73	.09	<3	.60	.08	.37	3	95	5	<2
C 117910	3	1347	8	104	1.1	16	14	652	3.28	3	<8	<2	4	229	.4	<3	<3	152	1.76	.249	13	63	.59	63	.11	4	1.09	.09	.47	<2	28	<2	14
C 117911	2	25	4	75	.5	68	37	794	6.81	5	<8	<2	2	153	<.2	4	<3	229	2.04	.426	24	123	1.76	246	.07	5	1.28	.07	1.31	<2	4	<2	<2
STANDARD DS3/FA-10R	10	125	32	158	<.3	34	12	819	3.19	31	14	<2	4	30	5.7	4	7	79	.54	.095	18	185	.60	148	.09	3	1.76	.04	.17	4	482	475	470

2901-S3

Sample type: CORE R150 60C. 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 ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117912	2	10	<3	93	<.3	56	30	788	5.65	3	<8	<2	<2	132	<.2	<3	3	229	1.42	.219	13	216	1.52	95	.21	6	1.02	.09	1.02	2	<2	<2	<2
C 117913	5	1864	14	121	1.2	18	19	851	4.56	3	<8	<2	<2	301	.6	<3	<3	236	1.58	.121	8	70	.74	88	.15	4	1.18	.20	.54	2	78	3	11
C 117914	3	3343	18	198	2.2	29	25	994	5.36	<2	<8	<2	<2	214	1.2	<3	<3	278	1.60	.132	7	72	1.15	104	.19	5	1.24	.06	.77	3	175	3	20
C 117915	2	36	3	161	<.3	43	29	1011	6.64	2	<8	<2	3	132	<.2	<3	<3	304	2.26	.455	20	147	1.46	113	.13	7	1.09	.06	1.00	3	<2	<2	3
C 117916	4	1839	19	218	.4	33	28	1091	6.27	15	<8	<2	2	211	.7	<3	3	345	2.07	.295	13	51	1.31	77	.21	8	1.24	.06	.86	4	23	4	19
C 117917	5	6184	10	229	3.1	43	82	858	8.43	41	<8	<2	<2	96	.7	3	<3	288	.69	.025	3	44	.46	66	.14	8	.75	.05	.42	3	81	4	12
C 117918	5	2618	5	353	.3	16	50	1173	6.52	3	<8	<2	<2	138	.4	<3	<3	307	.92	.087	5	43	1.28	148	.37	7	1.38	.07	1.24	5	13	<2	6
C 117919	16	4706	9	403	.9	11	64	1377	6.69	4	<8	<2	2	111	.9	<3	<3	291	1.00	.076	6	44	1.34	133	.37	4	1.31	.06	1.31	5	21	<2	3
C 117920	5	6459	60	414	2.7	14	60	1538	6.95	3	<8	<2	<2	91	2.2	<3	<3	348	.74	.015	3	43	1.60	137	.40	9	1.50	.06	1.55	7	45	4	4
RE C 117920	5	6497	67	415	2.8	14	61	1545	6.99	2	<8	<2	<2	91	2.1	<3	<3	350	.74	.015	3	45	1.60	137	.40	5	1.51	.06	1.56	7	47	3	2
RRE C 117920	7	6663	60	428	2.9	13	59	1566	7.13	4	<8	<2	<2	89	2.3	<3	3	360	.76	.015	3	48	1.62	135	.40	9	1.53	.06	1.57	6	49	<2	4
C 117921	8	2780	27	239	.8	14	34	1017	4.26	12	<8	<2	<2	128	1.0	<3	<3	195	.51	.028	4	46	.87	112	.22	<3	.99	.07	.94	3	17	2	5
C 117922	4	12015	18	382	9.0	13	27	696	4.29	2	<8	<2	<2	98	5.9	<3	<3	174	.39	.034	2	45	1.08	124	.27	<3	1.12	.06	1.11	5	193	2	3
C 117923	3	10966	24	398	7.5	14	19	907	6.02	2	<8	<2	<2	103	4.7	<3	<3	347	.56	.050	3	43	.70	113	.21	5	.82	.07	.75	6	263	<2	4
C 117924	9	11494	14	386	7.4	12	19	1024	4.83	14	<8	<2	3	116	4.7	<3	5	256	1.45	.070	5	37	.97	87	.17	3	.99	.05	.77	6	216	<2	4
C 117925	3	10525	8	285	6.9	16	17	693	5.86	2	<8	<2	<2	106	3.3	<3	<3	370	.63	.014	2	43	.48	139	.13	9	.65	.06	.66	4	282	<2	3
C 117926	2	10331	9	167	8.3	19	18	646	5.43	3	8	<2	<2	102	1.4	<3	4	323	.44	.016	3	47	.68	135	.19	9	.78	.06	.83	3	345	5	7
C 117927	3	11500	14	343	7.2	15	21	698	4.75	2	<8	<2	3	388	4.5	<3	5	260	.67	.064	4	40	.63	84	.16	4	.76	.06	.70	5	215	5	6
C 117928	3	12166	25	423	8.5	14	31	879	5.45	8	8	<2	22	222	5.2	<3	<3	277	1.67	.409	21	42	.47	52	.11	7	.72	.06	.41	6	90	2	4
C 117929	2	412	8	130	<.3	57	29	835	4.70	<2	8	<2	5	256	.2	<3	<3	196	1.31	.242	11	180	1.81	184	.26	6	1.49	.08	1.48	3	4	7	11
C 117930	3	185	5	107	<.3	44	19	721	3.82	<2	<8	<2	6	459	<.2	<3	<3	173	1.39	.153	8	136	1.40	114	.19	4	1.32	.08	1.13	2	<2	6	2
STANDARD DS3/FA-10R	10	129	35	164	<.3	35	13	836	3.28	32	<8	<2	3	29	5.8	5	7	82	.56	.098	20	187	.63	149	.09	3	1.84	.04	.18	5	473	479	486

2951-58

Sample type: CORE R150 60C. 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 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Eastfield Resources Ltd. File # A103609 Page 1

110 - 325 Howe St., Vancouver BC V6C 1Z7 Submitted by: Jay W. Page

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	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	Au** ppb	Pt** ppb	Pd** ppb
SI	<1	5	<3	4	<.3	<1	<1	10	.04	<2	<8	<2	<2	2	<.2	<3	<3	<1	.09	<.001	<1	5	<.01	5	<.01	<3	.01	.41	<.01	<2	<2	2	<2
C 117931	1	336	5	68	<.3	10	9	538	2.40	3	<8	<2	<2	155	.3	<3	<3	128	.66	.065	5	46	.75	143	.11	<3	1.03	.06	.66	<2	9	<2	3
C 117932	2	979	4	47	.4	6	8	368	1.55	2	<8	<2	2	88	.2	<3	<3	61	.28	.021	5	44	.49	109	.05	<3	.69	.05	.50	<2	50	<2	<2
C 117933	2	401	9	34	<.3	6	8	272	1.46	<2	<8	<2	<2	157	.2	<3	<3	55	.20	.016	4	39	.31	196	.04	3	.62	.06	.48	<2	13	<2	2
C 117934	3	524	9	44	.4	6	7	246	1.94	<2	<8	<2	3	183	.2	<3	<3	86	.16	.016	3	38	.27	209	.04	4	.59	.05	.40	2	24	<2	4
C 117935	2	380	6	45	<.3	7	6	239	2.04	2	<8	<2	3	111	.3	<3	<3	88	.22	.027	4	31	.26	136	.01	<3	.70	.04	.32	2	16	<2	5
C 117936	3	145	6	62	<.3	6	8	410	2.63	2	<8	<2	3	107	<.2	<3	<3	102	.90	.055	6	26	.29	92	.02	<3	.83	.02	.34	<2	14	<2	4
C 117937	2	328	5	38	<.3	5	6	295	1.38	3	<8	<2	3	147	.2	<3	<3	45	.70	.022	4	26	.29	98	.03	<3	.65	.05	.37	<2	14	<2	3
C 117938	2	356	7	96	.4	14	13	686	3.52	2	<8	<2	2	205	<.2	<3	<3	164	1.44	.093	8	42	.82	129	.15	<3	1.11	.06	.70	2	9	4	3
C 117939	3	723	4	89	.3	28	18	1068	3.01	2	<8	<2	2	257	.4	<3	<3	130	4.06	.109	8	76	1.38	116	.13	<3	1.35	.04	1.03	2	27	5	5
C 117940	4	506	9	45	.5	5	6	544	1.72	3	<8	<2	3	248	.3	<3	<3	71	2.19	.135	10	23	.53	114	.04	3	.75	.04	.41	2	124	2	15
RE C 117940	4	506	10	44	.6	5	6	535	1.70	3	<8	<2	3	246	.2	<3	<3	72	2.18	.134	10	23	.53	114	.04	<3	.74	.04	.41	<2	132	2	14
RRE C 117940	3	514	8	46	.4	7	6	545	1.74	3	<8	<2	4	250	.2	<3	<3	76	2.19	.137	10	21	.54	115	.05	3	.76	.05	.42	2	141	<2	15
C 117941	5	651	7	31	.3	10	10	599	1.50	7	<8	<2	3	270	.3	<3	<3	49	2.73	.117	9	23	.42	68	<.01	4	.69	.04	.25	2	38	3	7
C 117942	4	9657	25	116	4.9	65	38	972	4.21	6	<8	<2	<2	240	1.5	<3	<3	163	2.78	.131	9	214	3.43	297	.32	4	2.29	.06	2.44	3	242	6	11
C 117943	2	31	<3	103	<.3	67	33	1121	4.17	7	<8	<2	3	342	.3	<3	<3	165	3.12	.205	17	185	2.82	432	.23	5	2.24	.05	1.97	<2	3	6	6
C 117944	2	39	4	88	<.3	21	13	858	2.96	7	<8	<2	4	337	.4	<3	<3	96	2.50	.266	18	44	1.20	134	.11	4	1.36	.06	.95	2	3	2	4
C 117945	4	772	6	96	<.3	14	18	1002	3.97	5	<8	<2	2	247	<.2	<3	<3	86	1.70	.137	12	35	.90	82	.12	<3	1.05	.06	.72	<2	33	3	4
C 117946	2	615	4	111	<.3	22	20	1357	4.18	<2	<8	<2	<2	300	.3	<3	4	175	2.75	.145	9	81	1.58	186	.24	<3	1.52	.05	1.37	<2	19	6	8
C 117947	4	491	7	90	<.3	12	17	913	3.64	3	<8	<2	3	500	.3	<3	<3	154	2.57	.193	13	32	1.29	97	.12	<3	1.43	.07	.50	<2	12	3	5
C 117948	3	2249	4	105	1.7	42	26	946	3.77	3	<8	<2	2	244	.8	<3	<3	160	1.55	.117	6	135	2.23	165	.26	3	1.76	.06	1.74	<2	100	4	10
C 117949	10	2615	9	120	1.6	23	28	1056	4.43	<2	<8	<2	2	343	.9	<3	<3	192	2.30	.157	10	57	2.16	253	.26	<3	1.93	.06	1.69	<2	102	2	11
C 117950	4	1044	5	102	.4	11	21	977	3.92	<2	<8	<2	<2	246	<.2	<3	<3	161	1.68	.098	7	30	.80	160	.11	3	.92	.06	.56	<2	42	<2	<2
C 117951	3	1289	5	128	1.2	25	22	1148	4.99	<2	<8	<2	<2	261	.4	<3	3	252	2.25	.063	5	68	.93	99	.14	<3	.91	.05	.55	<2	89	<2	4
C 117952	3	1155	4	66	.6	19	18	630	4.61	<2	<8	<2	<2	416	.2	<3	<3	234	1.20	.071	4	41	1.14	185	.18	<3	1.03	.06	.73	2	41	<2	7
RE C 117952	3	1204	4	67	.5	21	19	648	4.79	<2	9	<2	<2	428	.2	<3	3	239	1.25	.072	5	42	1.17	194	.19	3	1.06	.06	.76	<2	40	4	7
RRE C 117952	3	1133	4	64	.6	19	19	623	4.65	<2	<8	<2	<2	405	<.2	<3	<3	238	1.20	.070	5	42	1.13	186	.18	<3	1.03	.06	.74	<2	35	2	7
C 117953	2	175	5	187	<.3	112	46	1052	4.63	<2	<8	<2	2	202	.3	<3	<3	186	1.53	.265	20	290	4.28	844	.32	<3	2.95	.07	3.21	<2	6	6	13
C 117954	2	966	4	56	.5	20	17	520	2.76	2	<8	<2	<2	247	.3	<3	<3	129	.84	.127	7	58	1.20	357	.16	3	.97	.07	.92	<2	24	<2	5
C 117955	2	2511	3	136	1.4	67	38	1059	6.43	<2	<8	<2	2	299	.3	<3	<3	262	1.66	.221	11	157	2.71	410	.26	<3	2.01	.06	1.84	<2	132	7	21
C 117956	3	268	7	22	<.3	8	6	405	1.03	2	<8	<2	2	315	<.2	<3	<3	42	1.99	.119	7	26	.39	229	.06	<3	.55	.06	.43	<2	32	<2	3
C 117957	3	847	5	126	<.3	50	39	1767	6.07	9	8	<2	2	481	.5	<3	<3	243	8.49	.261	15	122	1.79	169	.15	3	1.66	.03	1.07	<2	23	4	6
C 117958	2	116	5	77	<.3	18	14	844	3.47	2	<8	<2	3	319	.2	<3	<3	93	2.66	.193	13	38	.96	347	.08	3	1.10	.06	.63	<2	2	2	2
C 117959	2	730	<3	135	<.3	59	42	1311	8.07	<2	11	<2	2	432	.2	<3	4	315	3.96	.238	15	158	2.36	650	.11	<3	1.66	.05	1.64	<2	27	3	10
STANDARD DS3/FA-10R	10	131	36	158	<.3	35	13	849	3.26	31	9	<2	5	29	5.7	5	7	81	.55	.097	18	190	.62	150	.08	<3	1.77	.04	.18	3	493	463	476

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: CORE R150 60C AU** PT** & PD** GROUP 3B BY FIRE ASSAY & ANALYSIS BY ICP-ES. (30 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: OCT 11 2001 **DATE REPORT MAILED:** Oct 22/01 **SIGNED BY:** D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data ✓ FA ___

2001-59

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117960	2	658	6	85	.8	25	18	863	4.42	<2	<8	<2	<2	259	.3	<3	<3	224	2.46	.088	6	61	.89	101	.08	<3	.94	.03	.46	<2	63	<2	3
C 117961	1	2169	<3	123	1.8	68	41	1079	7.15	<2	<8	<2	2	518	<.2	3	3	262	3.30	.304	15	150	2.93	279	.21	<3	1.81	.04	1.48	<2	90	4	14
C 117962	2	1386	8	99	1.0	61	39	892	5.83	<2	<8	<2	2	478	<.2	<3	<3	207	2.29	.300	14	152	3.06	716	.18	<3	1.89	.04	1.72	<2	53	6	17
C 117963	1	28	<3	79	<.3	84	42	791	5.53	<2	<8	<2	2	795	<.2	<3	<3	172	2.56	.333	16	208	3.73	1187	.17	<3	2.17	.05	2.02	<2	2	10	16
C 117964	1	<1	3	64	<.3	88	43	665	5.39	3	<8	<2	2	749	<.2	<3	3	167	1.91	.332	16	210	4.04	834	.20	<3	2.08	.05	1.92	<2	<2	6	6
C 117965	2	78	5	83	<.3	65	40	848	5.87	3	<8	<2	2	707	.2	<3	<3	203	2.70	.384	18	146	3.43	673	.13	<3	1.74	.04	1.52	<2	6	6	9
C 117966	1	292	4	88	<.3	59	35	890	6.24	<2	<8	<2	<2	449	<.2	<3	<3	212	2.68	.329	13	120	2.54	365	.16	<3	1.25	.04	.98	<2	11	3	<2
C 117967	10	553	7	45	.5	19	22	849	2.54	4	<8	<2	<2	290	.2	<3	<3	70	4.03	.109	6	22	1.40	183	.07	3	1.43	.03	.59	2	25	17	41
C 117968	1	351	5	75	<.3	28	26	1685	4.15	4	<8	<2	<2	399	.6	<3	<3	128	11.63	.176	9	83	1.78	134	.01	3	1.58	<.01	.13	2	14	<2	15
C 117969	1	17	13	129	<.3	22	21	4026	3.71	2	<8	<2	<2	246	.8	3	<3	112	18.59	.037	7	19	4.08	46	<.01	<3	.30	.01	.03	<2	2	<2	<2
C 117970	2	62	5	91	<.3	65	41	1446	6.32	<2	<8	<2	<2	506	.4	<3	<3	200	8.96	.116	9	139	1.76	154	.11	<3	1.40	.02	.72	2	4	7	3
C 117971	5	185	4	54	<.3	6	10	911	2.55	2	<8	<2	<2	326	<.2	<3	<3	100	3.12	.103	11	21	.50	122	.03	<3	.79	.04	.24	<2	29	5	5
C 117972	2	213	8	65	<.3	9	9	914	2.68	3	<8	<2	<2	448	<.2	<3	<3	124	1.97	.098	10	30	.57	165	.10	<3	.98	.07	.23	<2	24	2	4
RE C 117972	1	217	5	68	<.3	9	10	933	2.78	3	<8	<2	<2	461	<.2	<3	3	126	2.01	.100	10	31	.59	168	.09	<3	1.00	.08	.24	<2	25	2	5
RRE C 117972	2	209	5	67	<.3	7	10	933	2.66	2	<8	<2	<2	455	.2	<3	<3	121	2.01	.098	10	28	.59	165	.09	<3	.98	.07	.23	<2	23	4	2
C 117973	2	336	6	79	<.3	10	12	1136	3.54	3	<8	<2	<2	717	.2	<3	<3	168	2.12	.117	11	31	.80	174	.10	3	1.18	.11	.25	6	29	<2	4
C 117974	6	594	12	79	.7	9	10	900	2.95	6	<8	<2	<2	1437	.3	<3	<3	138	1.61	.124	11	34	.72	193	.08	3	1.50	.21	.23	<2	51	<2	4
C 117975	5	491	10	73	.4	11	10	886	2.95	<2	<8	<2	<2	785	<.2	<3	<3	142	1.29	.103	9	34	.61	103	.12	<3	.96	.09	.29	<2	32	<2	6
C 117976	9	1057	16	75	1.0	12	13	944	3.32	<2	<8	<2	<2	307	.3	<3	<3	147	2.08	.161	12	33	.89	138	.11	<3	.95	.05	.37	<2	84	2	5
C 117977	4	44	3	87	<.3	50	34	884	6.74	<2	<8	<2	2	3025	.2	<3	<3	233	2.57	.353	14	135	2.18	414	.15	<3	1.41	.05	1.28	<2	5	4	5
C 117978	3	10	<3	67	<.3	56	36	890	6.73	<2	<8	<2	2	1970	<.2	5	<3	226	3.60	.282	12	177	2.17	309	.13	<3	1.16	.03	1.15	<2	23	2	2
C 117979	1	3	4	72	<.3	92	43	646	5.71	<2	<8	<2	<2	769	<.2	<3	3	176	2.05	.235	11	249	3.37	872	.14	4	1.91	.05	2.00	<2	<2	3	2
C 117980	1	1	4	57	<.3	102	45	602	5.38	2	<8	<2	<2	349	<.2	4	<3	168	1.80	.223	10	284	3.91	876	.19	<3	2.10	.05	2.07	<2	<2	6	3
C 117981	1	713	7	61	.5	108	47	679	5.73	3	<8	<2	2	260	.4	<3	<3	182	2.39	.239	10	318	5.45	736	.23	<3	2.43	.05	2.00	<2	19	6	8
C 117982	1	1206	8	64	1.2	81	39	1272	4.56	3	8	<2	<2	804	.7	3	4	162	9.52	.201	9	269	4.07	910	.15	<3	1.97	.01	.63	<2	93	4	9
C 117983	1	16	4	57	<.3	100	41	610	5.14	2	<8	<2	<2	540	<.2	3	<3	171	1.91	.245	11	291	3.65	746	.24	<3	2.02	.07	2.07	<2	3	3	<2
C 117984	2	3863	<3	73	1.0	98	46	596	5.63	<2	<8	<2	<2	171	.2	<3	3	220	1.51	.155	5	239	5.37	146	.44	<3	2.85	.06	3.48	<2	37	3	17
RE C 117984	3	4088	4	76	1.3	104	48	608	5.91	7	<8	<2	<2	181	<.2	3	<3	228	1.60	.163	6	250	5.57	150	.46	<3	2.96	.07	3.62	<2	42	2	17
RRE C 117984	2	3973	<3	76	1.5	104	48	609	5.91	3	<8	<2	<2	177	.2	<3	3	228	1.61	.162	5	251	5.59	123	.46	<3	2.97	.06	3.64	<2	47	5	17
C 117985	3	397	6	62	.5	105	43	619	5.24	2	<8	<2	2	473	.2	3	3	176	1.76	.247	11	320	3.62	800	.25	<3	2.21	.06	2.34	<2	18	5	3
C 117986	2	825	6	68	.5	90	40	729	4.90	<2	<8	<2	2	636	<.2	<3	3	171	2.15	.201	11	305	3.47	608	.22	<3	2.07	.06	2.14	<2	31	5	3
C 117987	13	2438	41	87	11.9	29	32	530	3.63	8	<8	<2	2	198	1.5	22	<3	135	1.36	.159	8	22	1.06	212	.16	<3	1.01	.04	.73	2	925	2	108
C 117988	6	1824	10	58	1.0	8	15	557	2.78	3	<8	<2	2	154	.2	<3	<3	146	1.11	.134	7	16	1.59	110	.27	3	1.25	.06	1.26	<2	51	3	6
C 117989	3	1337	12	66	1.4	13	11	612	2.82	2	<8	<2	2	182	.6	<3	<3	118	1.24	.109	9	25	.91	110	.17	<3	.82	.08	.57	<2	68	<2	2
STANDARD DS3/FA-10R	10	126	35	159	<.3	35	13	826	3.25	29	<8	<2	4	29	5.9	5	5	79	.54	.098	18	184	.62	156	.08	<3	1.80	.04	.17	4	496	498	490

2001-59

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	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	Au** ppb	Pt** ppb	Pd** ppb
C 117990	4	535	6	51	.4	13	14	687	2.79	7	<8	<2	<2	1774	.3	<3	<3	87	1.75	.146	9	25	1.01	262	.11	3	.99	.07	.54	<2	78	<2	6
C 117991	2	150	7	42	<.3	6	15	567	2.87	7	<8	<2	2	2163	<.2	<3	3	115	2.17	.185	11	15	1.05	852	.09	5	1.29	.06	.43	4	8	<2	2
C 117992	5	708	9	74	.4	74	41	800	5.98	3	<8	<2	2	1638	.3	<3	<3	210	2.25	.249	11	240	2.87	806	.25	<3	2.05	.06	1.98	<2	20	6	16
C 117993	6	1254	10	86	.8	52	37	742	5.28	5	11	<2	<2	1084	.3	<3	<3	246	1.51	.144	8	127	3.69	400	.40	<3	2.57	.06	2.76	<2	18	<2	13
C 117994	1	1704	11	93	1.6	54	44	922	7.77	<2	<8	<2	2	1032	.5	<3	<3	279	3.30	.357	18	113	2.65	623	.06	<3	1.70	.06	1.52	<2	101	5	27
C 117995	1	3360	18	86	3.3	77	50	793	7.89	<2	<8	<2	2	829	.9	4	3	287	3.09	.370	20	156	3.13	754	.06	3	1.91	.07	1.76	<2	170	13	43
C 117996	<1	4097	29	91	4.4	88	46	913	5.98	5	<8	<2	<2	1209	1.0	<3	<3	238	3.56	.225	13	230	3.57	639	.10	<3	2.19	.05	2.04	<2	326	10	19
C 117997	1	3939	17	88	3.2	77	43	800	6.57	<2	<8	<2	<2	1249	.8	<3	<3	262	1.77	.247	13	161	3.31	723	.15	<3	1.95	.05	1.77	<2	239	17	24
C 117998	1	13216	65	135	8.9	155	95	863	10.43	2	9	<2	<2	1381	2.8	<3	3	415	2.65	.324	17	130	3.56	103	.10	<3	2.29	.06	2.01	<2	323	11	30
C 117999	2	3869	24	99	2.9	22	22	788	5.40	<2	<8	<2	<2	155	.5	<3	3	249	1.15	.187	7	22	1.22	168	.24	<3	1.19	.06	.81	<2	217	5	9
C 118000	2	5388	10	121	2.8	13	24	796	6.12	2	<8	<2	<2	132	.6	<3	<3	309	1.49	.162	8	9	.89	64	.21	<3	1.14	.06	.46	<2	307	2	8
RE C 118000	1	5206	11	117	2.8	14	23	781	5.98	2	8	<2	<2	128	.7	<3	<3	303	1.46	.160	7	9	.87	60	.20	<3	1.11	.06	.45	<2	296	3	8
RRE C 118000	1	5189	10	118	2.5	14	23	776	6.06	<2	<8	<2	<2	116	.4	<3	<3	308	1.43	.157	7	9	.87	51	.20	3	1.07	.06	.42	<2	314	5	6
E 143107	1	4866	9	124	2.2	13	25	869	5.55	<2	<8	<2	<2	111	.6	<3	<3	256	1.12	.112	6	7	1.25	91	.27	<3	1.32	.07	.90	<2	174	2	6
E 143108	2	1577	6	96	.8	8	16	746	4.15	<2	<8	<2	<2	75	.2	<3	<3	230	1.00	.113	6	7	1.25	90	.22	<3	1.12	.06	1.06	<2	55	<2	4
E 143109	3	4514	5	95	2.5	8	18	693	3.55	2	<8	<2	<2	220	.6	<3	4	180	.94	.087	4	8	1.37	139	.25	4	1.30	.07	1.32	<2	267	4	7
E 143110	7	4329	13	93	2.3	8	25	799	4.22	3	8	<2	2	290	.6	<3	<3	206	1.62	.133	7	9	1.55	142	.26	4	1.64	.07	1.01	<2	149	3	6
E 143111	2	1166	8	81	.7	10	25	886	4.98	5	<8	<2	<2	814	.2	<3	<3	217	2.26	.169	9	13	2.01	619	.27	4	1.80	.08	1.31	<2	60	4	8
E 143112	1	153	4	84	<.3	52	37	830	5.70	2	<8	<2	2	357	<.2	<3	<3	216	2.40	.307	18	119	2.54	417	.13	<3	2.04	.14	1.75	<2	4	7	8
E 143113	3	561	6	55	.4	14	13	568	3.10	<2	<8	<2	<2	567	.2	<3	<3	120	1.58	.128	7	37	.65	214	.12	<3	1.05	.12	.36	<2	15	<2	3
E 143114	4	662	3	75	<.3	18	22	810	4.12	4	<8	<2	<2	298	.2	<3	<3	173	1.62	.186	8	53	1.30	124	.20	4	1.25	.06	.80	5	21	3	8
E 143115	2	1069	4	63	.4	15	18	601	3.54	2	<8	<2	<2	278	<.2	<3	<3	141	1.72	.132	7	43	.76	98	.14	<3	.88	.07	.38	<2	25	8	8
E 143116	2	294	5	55	.4	11	11	623	2.90	2	<8	<2	<2	423	<.2	<3	<3	131	2.18	.113	7	42	.75	123	.10	<3	.77	.05	.31	<2	53	<2	2
E 143117	3	395	9	61	.3	17	16	596	3.45	4	<8	<2	2	474	<.2	3	<3	149	1.39	.225	10	44	1.02	183	.17	3	1.15	.06	.66	<2	12	<2	2
E 143118	2	3891	7	127	1.9	65	46	965	7.48	<2	<8	<2	2	119	.8	<3	<3	315	2.31	.342	20	105	2.92	503	.09	<3	2.00	.07	1.83	<2	53	8	18
RE E 143118	2	3732	7	124	1.8	62	45	947	7.27	<2	<8	<2	3	115	.8	<3	<3	307	2.24	.332	19	101	2.85	484	.10	<3	1.94	.06	1.78	<2	43	6	18
RRE E 143118	2	3958	8	129	2.1	63	46	949	7.31	2	<8	<2	2	116	.6	<3	5	309	2.23	.333	19	101	2.89	505	.11	5	1.98	.06	1.81	<2	97	6	18
E 143119	2	2596	10	80	1.2	37	36	801	4.99	<2	<8	<2	2	277	.2	<3	<3	206	1.50	.251	10	58	2.08	485	.25	<3	1.75	.07	1.50	<2	50	4	16
E 143120	2	873	<3	122	.8	68	48	1076	6.24	<2	<8	<2	<2	287	<.2	<3	<3	277	4.31	.312	24	172	4.77	1000	.08	<3	3.16	.05	2.91	<2	30	5	10
E 143121	1	456	3	109	<.3	77	53	888	5.04	<2	<8	<2	<2	227	.2	<3	<3	230	2.83	.347	33	190	4.84	1308	.12	3	3.24	.08	3.41	<2	10	7	10
E 143122	1	318	4	110	<.3	82	53	974	5.38	<2	<8	<2	2	364	.2	<3	<3	252	4.12	.322	32	203	4.98	1347	.10	4	3.31	.07	3.50	<2	21	5	8
E 143123	1	2641	9	124	1.5	86	50	925	5.84	<2	<8	<2	<2	202	.6	<3	<3	244	2.88	.325	24	188	4.44	983	.10	<3	3.02	.07	3.25	<2	31	3	2
E 143124	7	1032	5	50	<.3	17	30	524	5.03	3	<8	<2	<2	103	<.2	<3	<3	234	1.23	.147	9	28	2.81	196	.46	<3	2.48	.08	2.11	<2	8	<2	2
E 143125	5	1508	7	68	.5	20	29	624	4.76	<2	<8	<2	2	264	<.2	<3	<3	232	1.10	.162	7	35	2.27	191	.40	<3	2.04	.07	1.81	<2	44	2	6
STANDARD DS3/FA-10R	9	120	34	153	<.3	35	12	803	3.11	30	<8	<2	5	28	5.6	5	7	77	.53	.092	17	193	.60	157	.09	3	1.72	.04	.17	4	478	473	474

2001-59

Sample type: CORE R150 60C. 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 ppm	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	Au** ppb	Pt** ppb	Pd** ppb
E 143126	2	1058	7	82	.8	19	15	563	4.61	<2	<8	<2	<2	170	<.2	<3	<3	231	.93	.146	6	48	.56	143	.16	<3	.79	.06	.44	<2	100	3	11
E 143127	2	819	10	90	.7	25	19	672	4.13	<2	<8	<2	<2	223	<.2	<3	<3	192	1.05	.123	6	69	1.01	181	.22	<3	1.14	.08	.75	3	26	4	7
E 143128	1	5333	4	121	3.4	70	41	892	6.86	<2	<8	<2	2	170	.6	<3	3	292	2.34	.221	10	110	2.02	328	.16	<3	1.42	.05	1.29	<2	157	17	28
E 143129	2	759	5	60	<.3	20	25	539	4.27	<2	<8	<2	<2	178	<.2	<3	<3	178	1.28	.166	6	33	.85	188	.19	4	1.14	.07	.64	<2	5	3	7
E 143130	2	578	7	59	<.3	19	18	493	4.02	<2	<8	<2	<2	181	<.2	<3	<3	177	1.17	.196	7	43	.62	112	.15	3	.90	.06	.40	<2	11	4	7
E 143131	4	250	6	61	<.3	14	17	659	3.64	<2	<8	<2	<2	302	<.2	<3	<3	148	1.52	.190	9	35	.76	121	.13	5	1.19	.08	.49	<2	5	7	8
E 143132	3	204	5	74	<.3	10	12	569	2.73	<2	<8	<2	<2	379	<.2	<3	<3	116	1.28	.124	8	31	.60	87	.13	<3	.95	.09	.39	<2	<2	<2	4
E 143133	4	642	7	70	<.3	11	20	468	3.22	<2	<8	<2	2	202	<.2	<3	<3	116	1.36	.175	11	29	.41	63	.11	<3	.79	.08	.24	<2	5	2	5
E 143134	2	150	13	43	<.3	11	10	354	2.94	<2	<8	<2	<2	379	<.2	<3	4	137	1.24	.179	10	31	.32	91	.08	<3	.83	.07	.20	2	<2	<2	5
E 143135	2	2878	7	35	1.9	25	17	330	1.89	<2	<8	<2	<2	1541	.4	<3	<3	70	.73	.150	6	24	.99	514	.17	<3	.87	.07	.81	<2	49	4	18
RE E 143135	2	3050	10	36	2.0	27	18	346	1.99	2	<8	<2	<2	1627	.5	<3	<3	74	.76	.159	7	26	1.04	540	.17	<3	.91	.07	.85	<2	51	2	16
RRE E 143135	2	2908	10	32	1.9	24	16	323	1.81	<2	<8	<2	<2	1534	.4	<3	<3	69	.73	.152	7	24	.99	499	.17	<3	.84	.06	.78	<2	51	5	14
A 201001	1	183	8	74	.5	34	20	1310	4.10	4	<8	<2	2	193	.4	6	<3	109	4.80	.229	12	54	1.38	414	.01	3	1.48	.02	.47	2	100	5	5
A 201002	1	102	3	105	<.3	47	25	1200	4.53	<2	<8	<2	<2	188	.4	<3	<3	151	4.50	.227	15	82	1.87	162	.08	<3	1.52	.04	.70	<2	12	2	5
A 201003	17	244	4	110	.7	54	31	1110	5.05	2	<8	<2	<2	156	.7	<3	<3	168	4.08	.238	16	92	1.83	135	.07	<3	1.66	.05	.95	<2	415	<2	6
A 201004	9	323	7	97	.5	42	26	1657	4.14	5	<8	<2	<2	272	.5	<3	<3	126	7.37	.242	17	66	2.11	599	.04	<3	1.84	.03	.73	<2	41	4	7
A 201005	5	852	14	129	1.3	25	35	1621	5.56	2	<8	<2	2	337	.7	6	<3	219	6.73	.368	20	35	2.11	536	.08	<3	1.74	.02	.65	<2	220	5	14
A 201006	12	289	4	65	1.2	6	14	832	3.13	<2	<8	<2	2	180	.2	<3	<3	95	2.63	.122	9	8	.58	124	.02	3	1.11	.02	.42	<2	203	4	6
A 201007	2	108	4	95	.3	6	14	1001	2.81	2	<8	<2	<2	208	.2	<3	<3	135	2.02	.167	11	11	.98	187	.10	<3	1.09	.04	.45	<2	90	4	5
A 201008	4	1030	5	114	.6	8	15	1082	4.36	4	<8	<2	3	202	<.2	<3	<3	216	2.52	.344	19	13	.71	171	.07	<3	1.03	.04	.40	<2	41	6	4
A 201009	11	6587	5	90	3.5	10	15	1076	3.68	10	<8	<2	3	163	.4	<3	<3	204	2.40	.263	15	18	1.07	226	.14	<3	1.14	.04	.78	3	822	11	29
A 201010	4	8998	16	68	5.0	9	10	734	2.55	4	14	<2	4	141	.8	<3	<3	156	1.81	.229	15	15	.69	135	.11	<3	.80	.05	.40	<2	934	14	42
A 201011	9	11192	5	108	6.5	7	12	1112	2.96	20	<8	<2	4	159	.9	82	3	88	3.24	.217	14	7	.63	82	.01	4	1.00	.01	.38	6	1398	11	21
A 201012	17	12381	12	163	9.3	7	12	1014	2.43	47	<8	<2	2	167	1.9	280	<3	81	3.09	.123	8	7	.36	82	<.01	3	1.01	.01	.36	5	758	4	8
A 201013	3	14146	7	107	11.7	9	15	1177	3.37	31	<8	<2	5	188	1.5	7	3	154	3.52	.272	18	12	.75	173	.08	3	.98	.04	.56	6	948	5	12
A 201014	3	9033	6	77	5.8	7	9	662	2.45	3	<8	<2	2	163	.5	<3	<3	117	1.55	.118	10	12	.58	98	.10	<3	.72	.05	.29	<2	362	4	6
RE A 201014	4	9033	7	77	5.5	7	9	658	2.44	<2	<8	<2	2	163	.5	<3	<3	117	1.53	.118	10	11	.58	99	.10	3	.71	.05	.28	<2	469	2	4
RRE A 201014	4	9065	4	76	5.7	6	9	662	2.34	<2	<8	<2	2	160	.5	<3	<3	113	1.55	.118	10	12	.58	95	.10	<3	.69	.05	.26	<2	368	2	4
A 201015	5	7514	10	102	5.4	10	13	957	3.18	6	<8	<2	3	149	.8	<3	<3	167	2.23	.246	16	20	.92	103	.11	3	.96	.05	.46	4	329	<2	5
A 201016	7	6288	12	121	15.2	11	14	865	4.06	4	<8	2	<2	137	.8	<3	<3	217	1.50	.131	10	16	.80	101	.13	3	.88	.05	.41	3	751	<2	3
A 201017	3	7211	4	56	4.3	6	7	424	1.99	3	<8	<2	2	467	.4	<3	<3	104	.84	.107	9	15	.31	87	.12	<3	.63	.07	.34	3	300	5	3
A 201018	2	4686	9	86	3.2	8	10	612	3.00	2	10	<2	2	150	.4	<3	<3	169	1.03	.141	10	15	.43	69	.12	<3	.75	.05	.38	<2	189	<2	3
A 201019	3	11144	15	84	7.7	8	10	576	2.51	4	<8	<2	3	141	.8	<3	<3	128	1.05	.148	11	14	.51	97	.13	<3	.75	.06	.46	5	379	<2	2
A 201020	2	6126	12	88	4.7	6	10	653	2.68	5	9	<2	3	429	.7	<3	3	144	1.42	.255	17	13	.58	71	.11	<3	.75	.05	.44	3	176	<2	5
STANDARD DS3/FA-10R	9	127	37	158	.3	37	12	831	3.20	32	9	<2	4	28	5.6	4	7	79	.55	.095	19	191	.61	164	.08	<3	1.77	.03	.17	4	503	477	487

2001-59

2001-60

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data L FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	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	Au** ppb	Pt** ppb	Pd** ppb
A 201021	2	2078	6	82	1.5	5	9	593	2.83	3	<8	<2	3	130	.4	<3	<3	159	1.12	.194	12	28	.44	67	.12	<3	.66	.05	.34	<2	60	2	4
A 201022	2	673	4	143	.4	8	15	1063	4.88	2	<8	<2	7	160	.8	<3	<3	236	2.18	.411	24	26	.49	72	.10	<3	.74	.05	.29	<2	33	<2	5
A 201023	2	2068	5	119	1.3	7	14	947	4.43	<2	<8	<2	2	133	.7	<3	4	205	1.02	.077	6	25	.48	69	.14	<3	.68	.04	.27	<2	99	<2	<2
A 201024	2	1732	4	104	.8	7	17	891	3.97	<2	<8	<2	<2	150	.8	<3	<3	171	1.40	.070	6	22	.68	78	.13	3	.86	.04	.41	<2	60	<2	4
A 201025	5	7162	5	84	4.5	6	13	1390	3.20	18	<8	<2	<2	162	.8	<3	<3	134	3.15	.095	11	18	.51	41	.02	<3	.56	.02	.28	5	327	<2	6
A 201026	3	1210	<3	94	.9	9	16	1512	4.44	12	<8	<2	2	199	.9	<3	<3	158	3.48	.064	10	22	.40	80	.02	<3	.81	.03	.32	<2	67	2	2
A 201027	5	466	5	100	.4	7	16	1235	4.33	6	<8	<2	5	180	.7	<3	<3	196	3.96	.632	36	15	.37	91	.02	<3	.98	.02	.35	<2	13	<2	<2
A 201028	5	1831	5	79	1.7	6	11	881	2.90	14	<8	<2	4	151	.5	<3	<3	148	2.77	.404	24	20	.32	172	.03	3	.81	.03	.37	<2	52	<2	7
A 201029	8	20411	6	56	12.7	4	8	980	1.93	83	<8	<2	2	92	1.2	<3	3	56	3.06	.177	12	19	.37	182	<.01	<3	.58	.01	.21	4	1343	5	15
A 201030	6	4767	6	73	2.8	6	9	805	1.68	219	<8	<2	2	119	.5	<3	3	56	2.53	.183	10	29	.22	258	.01	<3	.74	<.01	.24	<2	240	4	7
A 201031	4	8711	4	31	6.0	4	6	346	1.15	12	<8	<2	3	82	.7	<3	3	29	.90	.056	7	29	.10	239	.01	<3	.46	.02	.24	5	241	2	3
A 201032	2	7951	5	44	5.7	6	6	498	1.52	4	<8	<2	2	100	.5	<3	<3	81	1.18	.041	9	26	.30	110	.04	4	.41	.03	.34	5	156	<2	<2
RE A 201032	3	8313	5	46	6.0	6	6	520	1.59	4	<8	<2	3	105	.7	<3	<3	86	1.24	.043	9	28	.32	119	.04	<3	.44	.03	.35	4	153	3	2
RRE A 201032	4	8650	6	48	6.3	5	6	529	1.60	5	<8	<2	2	107	.6	<3	4	87	1.28	.043	10	31	.33	120	.04	<3	.44	.03	.35	4	165	<2	<2
A 201033	2	16426	6	72	12.1	10	9	625	2.33	9	<8	<2	2	104	1.1	<3	4	105	1.47	.090	10	27	.37	141	.03	3	.61	.02	.34	5	831	3	8
A 201034	4	21319	6	107	13.4	13	15	828	3.67	4	<8	3	<2	421	1.8	<3	3	158	1.74	.070	8	27	.59	152	.08	<3	.90	.02	.42	4	2266	11	15
A 201035	5	12895	4	76	12.8	9	11	581	2.52	15	<8	<2	<2	131	1.0	4	<3	102	1.55	.118	11	23	.38	135	.02	<3	.72	.02	.39	6	1212	4	12
A 201036	3	11326	5	65	8.2	6	8	726	1.71	7	<8	<2	2	84	.9	<3	<3	67	1.44	.050	7	24	.50	184	.04	<3	.57	.02	.40	<2	478	4	5
A 201037	2	8127	<3	48	6.2	9	7	323	1.29	14	<8	<2	3	74	.5	<3	3	56	.76	.165	16	32	.40	164	.06	<3	.65	.03	.57	5	299	<2	4
A 201038	2	15407	5	71	10.7	11	9	460	2.29	47	<8	<2	2	79	1.0	3	<3	133	.80	.104	12	46	.31	150	.07	<3	.51	.04	.38	6	1220	3	13
A 201039	4	7214	8	72	5.3	8	10	552	2.45	32	<8	<2	4	117	.4	<3	4	145	1.33	.065	12	12	.41	44	.05	3	.69	.02	.30	5	558	9	11
A 201040	3	4334	5	76	3.0	10	13	833	2.81	14	<8	<2	<2	103	.5	<3	3	135	1.72	.098	10	19	.69	177	.05	<3	.73	.04	.58	<2	259	<2	3
A 201041	5	5268	3	108	4.2	11	14	1059	3.58	2	<8	<2	<2	125	.8	<3	<3	172	2.30	.116	12	19	.70	206	.07	<3	.89	.03	.58	<2	362	3	7
A 201042	4	6565	4	79	5.8	9	11	796	2.82	8	<8	<2	<2	128	1.0	<3	<3	133	1.70	.055	7	18	.56	177	.08	3	.70	.03	.54	4	341	5	5
A 201043	2	3559	3	82	2.8	10	12	807	3.59	<2	<8	<2	2	126	.7	<3	<3	194	1.56	.060	7	19	.58	195	.10	4	.66	.02	.51	<2	148	5	6
A 201044	4	4506	3	102	3.0	11	13	1006	3.15	<2	<8	<2	2	641	.6	<3	<3	150	2.13	.086	8	16	.77	84	.07	<3	.81	.03	.38	<2	516	8	9
RE A 201044	4	4467	3	101	2.8	11	13	988	3.07	<2	<8	<2	<2	633	.5	<3	<3	145	2.11	.085	7	15	.77	84	.07	<3	.78	.03	.37	<2	415	6	10
RRE A 201044	5	4765	<3	110	3.2	10	14	1058	3.14	<2	<8	<2	2	714	.7	<3	3	147	2.26	.091	9	17	.82	90	.07	<3	.84	.04	.40	<2	402	5	11
A 201045	6	7058	4	119	5.8	11	16	1085	4.60	<2	<8	<2	<2	175	1.3	<3	<3	231	2.32	.083	7	16	.69	162	.07	<3	.84	.05	.50	5	532	5	21
A 201046	7	2993	6	120	2.2	13	16	1018	3.88	<2	<8	<2	<2	1114	1.1	<3	<3	189	1.89	.128	8	24	.96	226	.11	<3	.92	.04	.66	<2	196	4	12
A 201047	4	1028	5	135	.8	14	18	1283	4.18	<2	<8	<2	2	1181	.7	<3	<3	199	2.30	.154	10	21	1.05	132	.10	<3	.98	.03	.52	<2	73	3	7
A 201048	6	1057	6	123	.8	8	12	1244	3.17	<2	<8	<2	2	190	.5	<3	<3	148	2.73	.082	9	12	.92	102	.06	<3	.98	.03	.41	<2	26	<2	3
A 201049	5	2407	18	91	1.6	8	10	766	2.94	2	<8	<2	2	166	.5	<3	5	135	1.52	.064	7	11	.50	107	.06	<3	.77	.04	.35	<2	116	<2	2
A 201050	3	2567	4	108	1.8	5	10	722	3.51	<2	<8	<2	<2	161	.7	<3	<3	179	1.35	.037	6	8	.30	187	.04	<3	.55	.03	.35	<2	152	<2	<2
STANDARD DS3/FA-10R	10	126	34	157	<.3	34	12	827	3.19	33	<8	<2	5	27	5.9	4	7	78	.51	.097	17	186	.60	146	.08	<3	1.72	.03	.16	3	481	479	472

2001-60

Sample type: CORE R150 60C. 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 ppm	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	Au** ppb	Pt** ppb	Pd** ppb
A 201051	5	1978	11	111	1.6	4	12	865	3.60	<2	<8	<2	<2	180	.5	<3	3	159	1.70	.063	6	7	.56	113	.12	<3	.79	.05	.46	<2	62	<2	<2
A 201052	5	1640	6	101	1.3	6	13	956	4.04	<2	<8	<2	<2	195	.3	<3	<3	186	2.18	.083	7	8	.65	161	.11	<3	.82	.05	.64	<2	66	<2	4
A 201053	6	1526	3	94	1.4	6	13	839	3.80	<2	<8	<2	<2	224	.5	<3	<3	162	2.08	.108	8	7	.56	314	.08	4	.80	.04	.64	<2	40	2	5
A 201054	3	878	3	107	.5	5	12	916	3.30	2	<8	<2	<2	312	.3	<3	<3	147	1.61	.103	8	9	.73	102	.13	<3	.96	.04	.58	2	18	5	6
A 201055	5	1812	11	113	1.6	5	12	898	3.70	<2	<8	<2	<2	1015	.5	<3	<3	175	1.36	.073	7	11	.66	84	.15	<3	.94	.05	.58	<2	16	5	5
A 201056	2	726	7	79	.4	4	10	1007	2.97	2	<8	<2	<2	350	.2	<3	<3	136	2.50	.107	9	6	.82	224	.04	<3	.64	.02	.41	<2	12	<2	<2
A 201057	2	748	4	85	.6	5	9	1580	2.64	<2	<8	<2	<2	108	.4	<3	<3	98	3.45	.055	7	6	1.22	252	.01	<3	.49	.01	.31	<2	13	2	3
A 201058	4	298	5	86	<.3	7	12	1107	2.75	4	<8	<2	3	136	.2	<3	<3	86	2.57	.136	12	8	.66	164	.02	4	.62	.02	.40	<2	11	<2	<2
A 201059	5	517	<3	91	.4	7	12	1240	2.99	10	<8	<2	2	201	.2	<3	3	97	3.14	.103	9	7	.94	453	.04	<3	.60	.02	.42	<2	20	3	5
A 201060	6	873	3	120	1.4	8	12	1280	3.31	30	<8	<2	<2	99	.3	<3	<3	119	2.39	.079	8	5	.74	270	.01	<3	.47	.02	.30	<2	103	2	4
RE A 201060	5	866	3	118	1.2	6	12	1255	3.22	32	<8	<2	<2	97	.5	<3	<3	115	2.35	.078	8	5	.73	264	.01	<3	.47	.02	.29	<2	68	<2	5
RRE A 201060	5	884	4	124	1.2	6	12	1276	3.40	32	<8	<2	<2	105	.7	<3	<3	123	2.37	.078	8	4	.73	280	.01	<3	.50	.02	.31	<2	63	2	4
A 201061	14	1764	4	109	1.9	16	15	1303	3.40	22	<8	<2	<2	93	.5	<3	<3	131	2.91	.066	6	22	.92	136	.03	<3	.57	.01	.37	<2	102	5	8
A 201062	3	86	<3	115	<.3	139	40	1098	5.23	<2	<8	<2	<2	410	.5	<3	<3	167	3.34	.125	9	326	3.36	468	.31	4	2.08	.06	2.40	<2	3	7	<2
A 201063	8	3343	8	79	2.2	44	18	666	3.07	<2	<8	<2	<2	395	.3	<3	<3	134	1.35	.089	7	159	1.30	167	.22	<3	1.09	.05	1.31	<2	52	3	8
A 201064	4	1333	6	47	.9	14	10	567	1.75	<2	<8	<2	<2	153	.2	<3	3	87	1.75	.058	6	29	.92	245	.16	5	.79	.05	.72	<2	23	<2	7
A 201065	<1	27	<3	79	<.3	158	46	836	5.43	2	<8	<2	2	182	.5	<3	<3	139	1.93	.176	11	367	3.87	492	.22	<3	2.07	.04	2.22	<2	<2	8	<2
A 201066	<1	47	4	78	.5	147	45	1390	5.46	<2	<8	<2	<2	463	.7	<3	<3	147	7.43	.111	6	390	4.32	540	.18	<3	1.77	.02	1.86	<2	54	9	<2
A 201067	1	44	<3	74	<.3	172	49	871	5.57	<2	<8	<2	<2	395	.7	<3	<3	134	1.56	.126	8	418	4.21	510	.21	<3	2.09	.04	2.00	<2	<2	7	<2
A 201068	1	576	<3	130	.4	26	21	1172	5.07	<2	<8	<2	<2	183	.4	<3	<3	256	2.52	.138	10	55	1.39	181	.14	<3	1.19	.04	.94	2	7	6	10
A 201069	2	24	<3	89	<.3	118	35	924	4.64	2	<8	<2	<2	1087	.4	3	<3	144	2.00	.099	8	301	3.01	213	.21	<3	1.91	.05	2.13	<2	<2	6	2
A 201070	3	1501	<3	86	.7	16	21	716	3.91	<2	<8	<2	<2	113	.3	<3	<3	180	1.43	.089	6	30	.94	261	.12	<3	.96	.04	.87	<2	23	4	6
A 201071	4	512	<3	102	.4	13	14	868	3.68	<2	<8	<2	<2	97	<.2	<3	<3	169	1.60	.067	6	32	.76	202	.09	<3	.92	.03	.69	<2	35	<2	2
A 201072	2	741	5	90	.8	19	18	733	4.47	2	<8	<2	<2	230	.4	<3	<3	190	1.58	.133	8	33	.83	488	.14	3	1.08	.05	1.02	3	46	2	4
A 201073	1	213	<3	112	.3	107	36	1018	4.86	<2	<8	<2	2	824	.5	<3	<3	177	1.85	.095	7	283	2.90	440	.36	<3	2.12	.06	2.37	<2	6	2	2
A 201074	6	1005	9	47	.5	20	12	506	2.30	2	<8	<2	<2	544	<.2	<3	<3	92	1.15	.064	5	42	.72	329	.12	<3	.77	.04	.75	<2	16	<2	2
RE A 201074	6	1018	10	47	.5	20	12	501	2.29	2	<8	<2	<2	543	<.2	<3	<3	93	1.15	.064	5	43	.71	332	.12	<3	.77	.05	.74	<2	17	<2	2
RRE A 201074	6	1018	9	48	.6	19	12	494	2.25	3	<8	<2	<2	536	<.2	<3	<3	91	1.16	.064	5	43	.71	321	.12	<3	.75	.04	.73	<2	16	2	3
A 201075	3	699	6	66	<.3	16	13	667	2.59	3	<8	<2	2	782	<.2	<3	<3	111	1.63	.188	11	34	.87	200	.09	<3	.88	.07	.59	<2	35	3	4
A 201076	13	153	<3	126	<.3	100	36	1238	4.79	<2	<8	<2	<2	282	.5	<3	<3	165	3.44	.072	6	278	2.99	364	.30	<3	2.02	.04	2.29	<2	8	3	2
A 201077	3	1063	6	47	.9	23	12	449	2.72	<2	<8	<2	<2	156	<.2	<3	<3	97	1.24	.071	5	20	.46	385	.05	<3	.62	.04	.50	<2	32	3	5
A 201078	2	152	<3	119	.3	139	47	1152	6.19	<2	<8	<2	<2	138	.9	<3	<3	190	1.88	.118	7	321	3.64	412	.27	<3	2.24	.04	2.22	<2	<2	3	3
A 201079	1	754	3	64	<.3	40	18	718	3.66	5	<8	<2	3	320	<.2	<3	<3	128	1.56	.254	13	40	1.19	148	.13	4	1.61	.23	.86	<2	74	15	13
A 201080	<1	121	<3	74	<.3	94	33	906	4.18	2	<8	<2	<2	123	.3	<3	<3	127	1.78	.109	7	237	2.64	145	.20	4	2.01	.14	1.90	<2	3	6	8
STANDARD DS3/FA-10R	9	125	35	152	.4	36	12	797	3.08	30	8	<2	4	27	5.5	3	4	75	.53	.093	17	190	.59	146	.08	<3	1.68	.03	.17	4	475	472	476

2001-60

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	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	Au** ppb	Pt** ppb	Pd** ppb
A 201081	2	13	<3	69	<.3	64	26	967	3.86	3	9	<2	<2	587	<.2	<3	<3	126	3.26	.103	6	169	2.26	257	.17	3	1.99	.13	1.50	<2	4	5	3
A 201082	6	926	<3	40	.7	9	14	599	3.49	5	<8	<2	<2	1398	<.2	<3	3	132	2.25	.110	6	9	.83	412	.03	3	1.78	.14	.36	3	13	2	7
A 201083	3	1213	<3	86	.7	8	12	1065	3.58	6	<8	<2	<2	153	<.2	<3	<3	160	2.06	.051	6	12	.68	60	.08	<3	.72	.04	.29	<2	78	3	9
RE A 201083	3	1254	<3	89	.7	8	12	1097	3.68	9	<8	<2	<2	155	.2	<3	<3	164	2.15	.053	7	12	.71	65	.08	<3	.74	.04	.30	<2	80	3	10
STANDARD DS3	9	121	32	155	<.3	36	12	815	3.15	31	<8	<2	4	27	5.6	3	4	75	.53	.093	17	194	.60	165	.08	<3	1.71	.03	.18	2	-	-	-

G2-1902

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

Lower Main Zone

North Cirque

Upper Main Zone

Eckland Zone

Weber Zone

Bishop Zone

Camp

Lorraine Peak

Drilling Roads

Reference Line (N)

Reference Line (S)

2001-49
2001-59
2001-56
2001-48
2001-60
2001-50
2001-54
2001-57
2001-52
2001-53
2001-58

WL 1747.7 ±

WL 1686.2 ±

101 000 North
100 500 North
100 000 North
99 500 North

8500 East
8600 East
8700 East
8800 East
8900 East

DRILL HOLE KEY

Drillhole identifier, holes drilled in 2001 are labeled with red coloured identifiers and drill hole traces. Holes drilled prior to 2001 are labled with black identifiers and traces.

Drillhole trace

Copper assay histogram, see colour code to far right

Drillhole collar

Copper Values (%)

	> 2.00
	1.00 – 2.00
	0.50 – 1.00
	0.20 – 0.50
	< 0.20
	No Assay

The topographic data have been generated by Eagle Mapping Ltd. converted (approximately) to the NAD 83 reference and have been modified into a local grid system for the Lorraine Project. The local grid system was created by subtracting 6,100,000 metres from the NAD 83 Northing co-ordinates and 340,000 metres from the Easting co-ordinates. No modification was implemented for the elevation. Section labels are arbitrary and are not related to the primary grid.

1:2500

EASTFIELD RESOURCES LTD.
LORRAINE PROJECT

LORRAINE PROJECT
Drill Hole Location Map
2001 Diamond Drill Program

Drawn by:	J.Zbertnoff	Date:	Sept 17, 2002
Approved:	G.R.Peatfield	Scale:	1:2500
Revised:		Zone:	Lorraine
Revised:		File No.	
Revised:		Plate No.	