

Geological and Geochemical

Assessment Report

Undertaken on

Santoy Resources

Mansfield Property

Man 1- 22 and Stan 1- 17 Claims

Atlin Mining Division, British Columbia

Latitude: $59^{\circ} 55'$

Longitude: $136^{\circ} 45'$

N.T.S: 114 P / 15

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Date: June 1, 2001

**GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT**

Period of Fieldwork

August 1, 2000 – August 27, 2000

26,556

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Summary and Recommendations

In the spring of 2000 Santoy Resources acquired 49 claims (96 units, 2400 hectares) in northwestern British Columbia (114 P/15) in the Atlin Mining Division covering the entire 13 kilometres of the Mansfield Ultramafic Complex. This complex is considered very prospective for the occurrence of platinum group elements and is a Kluane type complex, which also hosts the past producing Wellgreen Mine to the north in the Yukon. At Wellgreen 669,150 tonnes were outlined and partially mined from 1970-73 with the mined ore having an average grade of 2.23% Ni, 1.39% Cu, 0.073% Co and 2.15 g/t Pt and Pd. According to GSC Bulletin 506 these Triassic mafic-ultramafic complexes which occur along the eastern margin of Wrangellia, adjacent to the Denali fault from east-central Alaska to northern British Columbia constitute a newly recognized Ni-Cu-PGE metallogenic terrane that can be traced along strike for at least 600 km.

The Mansfield Complex occurs at the southern end of this new Ni-Cu-PGE belt and has only been partially explored for PGE's in 1987-1988. The 1987 work returned 1.1% Ni, 0.23% Co, 0.66 g/t Pt and 0.43 g/t Pd from float near the Stanley Creek showing, airborne magnetic and electro-magnetic anomalies, soil anomalies to 500 ppm Cu, 2460 ppm Ni, 260 ppb Pt and 910 ppb Pd. Recommendations from the 1988 work included more trenching and possibly drilling. L.J Hulbert of the GSC considers the "significant Ni-Cu-PGE sulphide and "lithwanitic"-related mineralization discovered within the complex and the pronounced geophysical and soil geochemical anomalies associated with this complex warrant a better understanding and further exploration ..."

The objectives of the 2000 field program were to ground truth the previous anomalous results and to conduct mapping and sampling on the drainages. A total expenditure of \$ 29, 628.26 was incurred in the collection of 37 rock, 289 soil and 4 silt samples. Although this work was hindered by the thick buck brush and till accumulations along with poor weather the results of the 2000 program failed to duplicate the results of the 1988 (Ass.Report 18, 823) program. The 2000 program however did confirm the presence of a narrow (50-100 m) ultramafic sill over 2.5 kilometres in strike, large (125 m x 1700 m) zones of listwanitic alteration zones and also anomalous values in soils (E.g. 00ATM- S002 below Trench 2: Ni 2010, Cu 180, Au 11, Pt 16, Pd 23).

It is recommended that selective pulps be re-analyzed to determine the reliability and precision of these results, especially those that are a re-sample of the highly anomalous 1987 – 1988 sites. Detailed prospecting and sampling should also be undertaken to try and find the site of the Stanley Creek Showing, which was unsuccessfully located during this program.

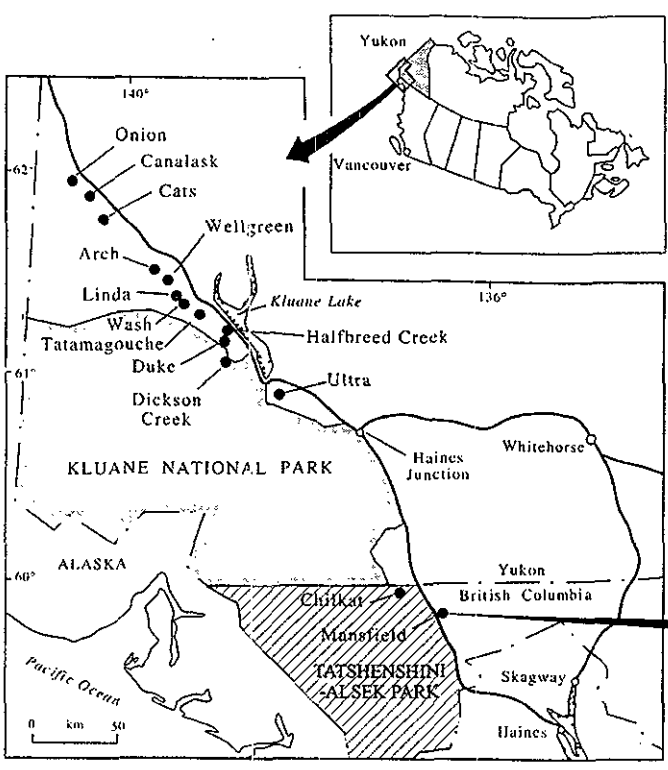
Claim Details

After a detailed compilation program of the Kluane ultramafic belt it was determined that the Mansfield Complex in northern British Columbia was not staked. In early March 2000 while the area was blanketed with 2-3 metres of snow claim staking was commenced. Claims were fashioned along 15 kilometres of prospective trend (see attached figure). A total of 96 units were staked in 39 claims, the Man 1- 22 and Stan 1- 17. Results of the 2000 field program were generally disappointing and only those claims (Stan 4-17) which cover the Stanley Creek Showing were kept in good standing (see Appendix II). Upon acceptance of this report Stan 4 – Stan 17 will be in good standing until 2003/03/03.

Location and Access

The Mansfield Complex is situated in northwestern British Columbia, approximately 15 km south of the British Columbia – Yukon border, on map sheet 114 P/15. The complex spans a narrow width of ground, roughly paralleling the Haines Road (which connects to the Alaska Highway), for a total strike length of at least 13 km. The Haines Road is a paved fully maintained highway that is within 1 kilometre of the entire complex and provides easy access to the regional center of Whitehorse approximately 250 km's away. Near the BC/Yukon border at Blanshard River the Yukon Government maintains a highway maintenance camp. Approximately 8 kilometres south of the claims near an abandoned pumping station an emergency airstrip is located and is suitable for landing small planes. The Haines Road also forms the eastern boundary of the Tatshenshini-Alsek Park.

Nearby on a spur road to Kelsall Lake a 27-foot trailer was parked just off the road in a gravel pit area to provide camp for the two geologists and one assistant. The trailer provided good accommodation from the cool, wet weather and also minimized environmental impact as all waste products were returned to Haines Junction.

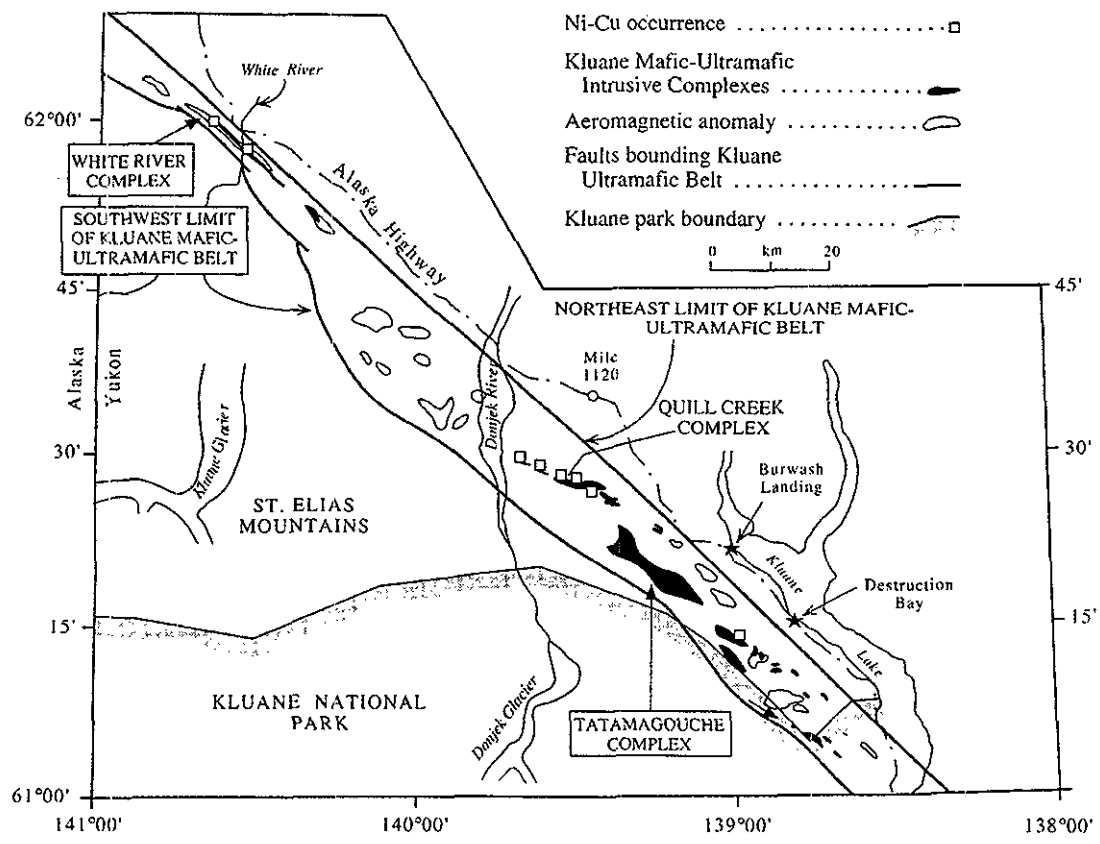


Santoy Resources Ltd.
MANSFIELD PROPERTY
 BRITISH COLUMBIA, CANADA
MAFIC-ULTRAMAFIC BELT
& PROPERTY LOCATION
 Figure 1
 Apr. 2000

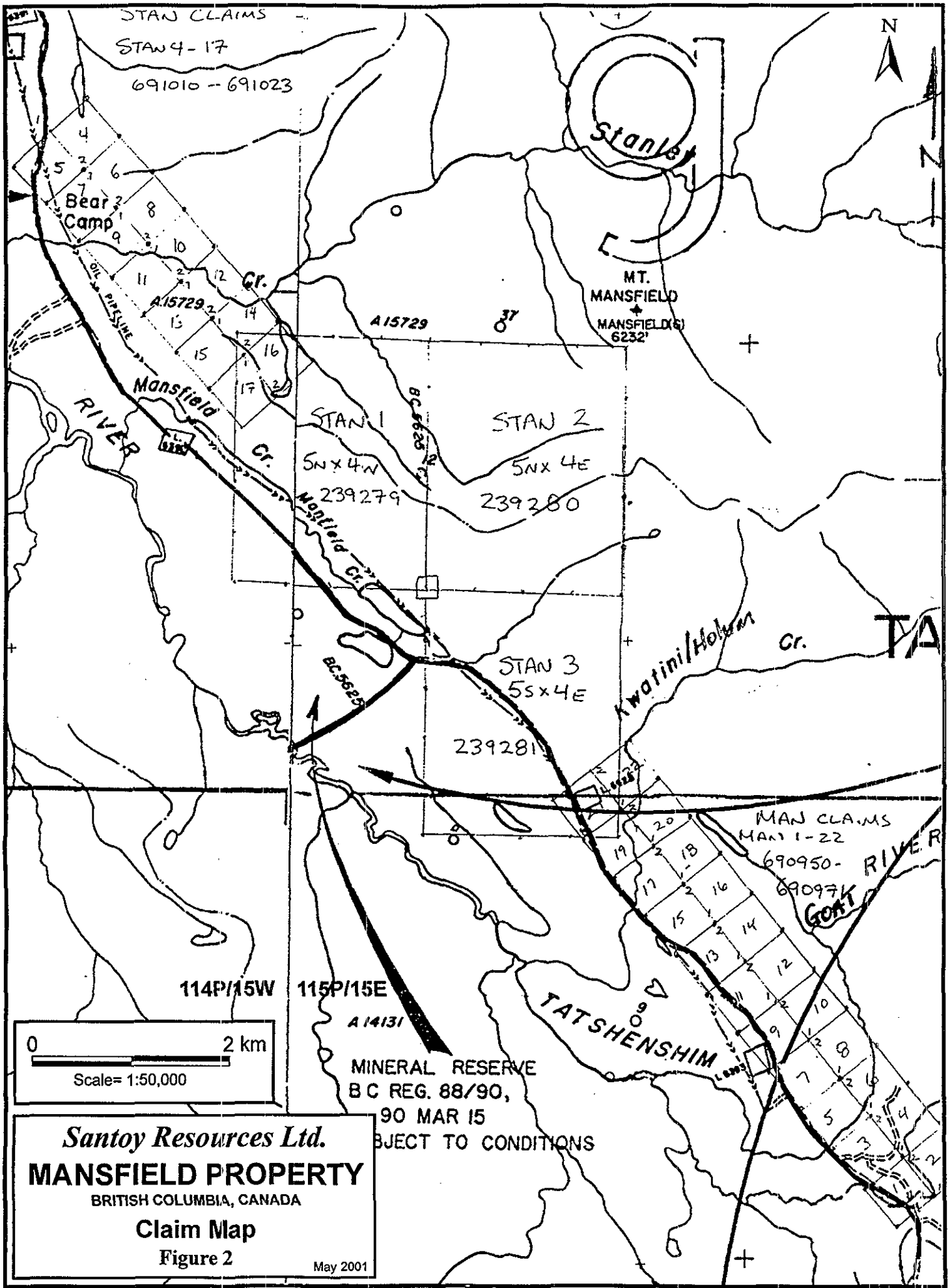
(From: L.J.Hulbert, GSC Bulletin 506 page 17
 Geology and Metallogeny of the Kluane Mafic-Ultramafic
 Belt, Yukon Territory, Canada: Eastern Wrangellia - a
 new Ni-Cu-PGE Metallogenic Terrane.)

MANSFIELD PROPERTY

Map showing the location of some of the better known mafic-ultramafic intrusive complexes in the Yukon and northern British Columbia, and most of those investigated during the course of this study.



Map showing the distribution and size of known Triassic intrusions, and the outlines of similar bodies inferred from aeromagnetic anomalies, within the Kluane Mafic-Ultramafic Belt in the central and northern portion of the Kluane Ranges, Yukon.



STAN CLAIMS
 STAN 4-17
 691010 - 691023

Stanley

MT. MANSFIELD
 MANSFIELD(S)
 6232'

Bear Camp

Mansfield RIVER

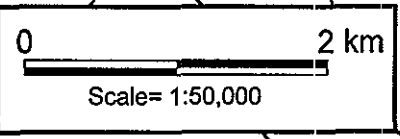
STAN 1
 5N x 4W
 239279

STAN 2
 5N x 4E
 239280

STAN 3
 5S x 4E
 239281

MAN CLAIMS
 MAN 1-22
 690950-
 690974
 GOVT

114P/15W 115P/15E



A 14131
 MINERAL RESERVE
 B C REG. 88/90,
 90 MAR 15
 SUBJECT TO CONDITIONS

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MANSFIELD PROPERTY
 BRITISH COLUMBIA, CANADA
Claim Map
Figure 2
 May 2001

Topography and Physiography

The area lies within the Tatshenshini River valley between the Alsek Range to the west and the Boundary Range to the east. The climate is influenced by both these mountain ranges and its proximity to the coast. Misty, foggy and rainy weather appear to be the climatic norm for this area (Hulbert, Bulletin 506, p.101), which can also be attested to during the August field program.

Topography is generally subdued and consists of low glaciated hills along the Haines Highway and ranges from 3000 feet to 4000 feet. The area has been extensively glaciated and most of the area is blanketed with up to 5 metres of till. Farther to the east of the claims however Mount Mansfield and a number of other mountains range to over 6,000 feet. No glaciers are noted within the claims, however they do occur as low as 5,000 feet in the area.

Vegetation consists of scattered scrub spruce and aspen groves along creek valleys, with very thick patches of buckbrush covering most other areas of the claims. This thick buckbrush makes traversing the area very difficult.

Relatively continuous bedrock exposures are restricted to deeply incised drainages such as Stanley Creek, Kwatini or Holum Creek (two names, one on maps the other at bridge crossing), Tatshenshini or Goat River (two names, one on maps the other on bridge crossing) and at least 5 other un-named drainages within the claims. Ridge crests also offer relatively thinner patches of buckbrush and occasional outcrop and subcrop.

Previous Work

In 1957, radioactive float was reported along the Haines Road near the bridge over Stanley Creek. A reconnaissance heavy metal geochemical survey was conducted by the British Columbia Department of Mines on drainages, which cut through a strong quartz carbonate, altered zone upstream from the bridge. The Stanley Creek showing was discovered in 1965 during a soil geochemical survey and oxidized mineralization assayed up to 4.6% Ni and 4% Cu across 1.2 m. Oxidized outcrops 100 m south of the showing were reported to contain disseminated sphalerite, as well as trace amounts of antimony, strontium and lead carbonates. A second showing containing sphalerite was found 1000 m south. (C&E South).



Photograph 1: View NW from above Twin Lakes towards Stanley Creek showing low relief till and buckbrush covered slopes



Photograph 2: View NE of Trench 2, with exposed ultramafic and site of soil 00ATM-S002

In 1987 Archer, Cathro and Associates staked claims to cover the original Stanley Creek showing plus a 9 km strike length of favorable ground. Samples taken during staking returned up to 1.1 % nickel, 0.23 % copper, 700 ppb platinum and 270 ppb palladium. Later an airborne geophysical survey was flown over the property and surrounding area by Dighem. The survey outlined magnetic and electro-magnetic anomalies, similar to those over the Quill Creek Complex, which hosts the past producing Wellgreen Mine. Three grids were cut with Grid 1 and 2 now covered by the Santoy Resources claims and Grid 3 now occurring in the Tatashenshini-Elsek Park, which occurs to the west of the Haines Highway. The 1987 grids were then tested by ground magnetic and EM surveys, geochemically sampled and where possible mapped and prospected. An excavator was contracted for 103 hours to cut five trenches.

A review of Assessment Report 18, 823 on the 1987 program shows that Trench 1 was cut at the top of the creek bank above the Stanley Creek Showing but did not reach bedrock.

Trenches 2, 3 and 6 were located in the Grid 1 area (south of Kwatini or Holum Creek) and targeted Ni- Cu soil anomalies. Trench 2 which tested soils to Ni 2460 ppm, Cu 134 ppm, Pd 115 ppb and Pd 115 ppb returned 75 metres of 0.21% Ni hosted in gabbro and peridotite, however did not return over 0.007 opt Pt or 0.003 opt Pd. Trench 3 returned 15 metres of 0.15% Ni over soils which returned Pd 25 ppb. Trench 6 returned 15 metres of 0.21% Ni in an area generally underlain by low soil values.

Trench 4 located on trend to the south where the ultramafic sill should cut across Tatshenshini or Goat River failed to intersect bedrock. Trench 5 is located to the northeast of the inferred trend of the ultramafic and not underlain by geochemical anomalies intercepted volcanics.

Compilation of the more than 800 soil samples, six trenches and both airborne and ground geophysics data showed that numerous Pt-Pd soil anomalies remain untested by the trenching program and included soils with values to 910 ppb Pd, 260 ppb Pt near the south side of Kwatini or Holum Creek and soils to 580 ppb Pd, 220 ppb Pt on trend of the Stanley Creek Showing.

Compilation of 1987 Data

After a review of the 1987 data it was determined that the objectives of the 2000 field program were to investigate the untested Pt and Pd in soil anomalies, exam the previous trenches and to geologically map and prospect the creek drainages on trend of the ultramafic sill.

The previous soil results were reviewed and the following target areas prioritized;

1. Grid 1 – Quartz Carbonate Zone, south of Kwatini/Holum Creek: soil samples up to 910 ppb Pd and 45 ppb Pt were returned in three anomalous zones from L 100 S to L 900S. These areas are surprisingly higher up the slope than the known trend of the peridotite sill and were not tested in the 1987 program.
2. Grid 2 -- Line 600 S: immediately SW of the Stanley Creek Showing one soil site returned 580 ppb Pd and 220 ppb Pt. Offset 100 metres to the NE is a site which returned 26 ppb Au, which may be indicative of a marginal Au- listwanitic type setting.
3. Grid 1- Line 1500 S- 1700S: moderate Pt-Pd soil anomalies (highs to 90 ppb Pt and 30 ppb Pd) in an area of bifurcating magnetic anomalies.
4. Grid 1 – Line 1900 S – 2500 S: a diffuse area of Pt- Pd anomalies (highs to 90 ppb Pt and 135 ppb Pd). Trench 2 (L1900S) returned 75 metres of 0.21% Ni and Trench 6 (L2400S) returned 15 metres of 0.23% Ni. Magnetic anomalies in the area also indicate the possibility of two distinct sills in the area.
5. Grid 1 – Line 2700 S – 3200 S: a diffuse area of Pt-Pd anomalies (highs to 220 ppb Pt and 30 ppb Pd) occur in the vicinity of Trench 3 (L2900S) which returned 15 metres of 0.15%Ni. The highest anomaly is located near the highway and off the main peridotite trend, magnetic anomalies in the area may suggest another sill.
6. Grid 1 -- Line 3600S - 4000S: In the area of Trench 4 (which failed to hit bedrock) near the Tatshenshini or Goat River an area of Pt and Pd anomalies (highs to 110 ppb Pt and 30 ppb Pd) are noted. Magnetic anomalies in the area appear to indicate multiple sills.
7. Grid 2- Line 800S -- 1200 S: anomalous Pt and Pd values over a 400 m area which coincides with a NW trending ridge on the possible trend SE trend from the Stanley Creek Showing.
8. Area Between Grid 1 & 2: At least 4 kilometres of prospective trend occurs between the previous grids and requires prospecting and sampling.

Photograph 3: Anomaly Followup, Grid 1 Line
3100 S / 600 W, swampy, thick organics



Photograph 4: Anomaly Followup, Grid 2
Line 10 S / 900 W, usual buckbrush



The previous trench data was also reviewed and although it failed to return significant platinum and palladium results it was noted that the trenches appeared to have been positioned based on Ni-Cu geochemistry.

Numerous creek drainages and gulleys were also noted on the topographical map and during staking that appeared to have been unmapped or sampled by the 1987 program.

Regional Geology and Mineralization

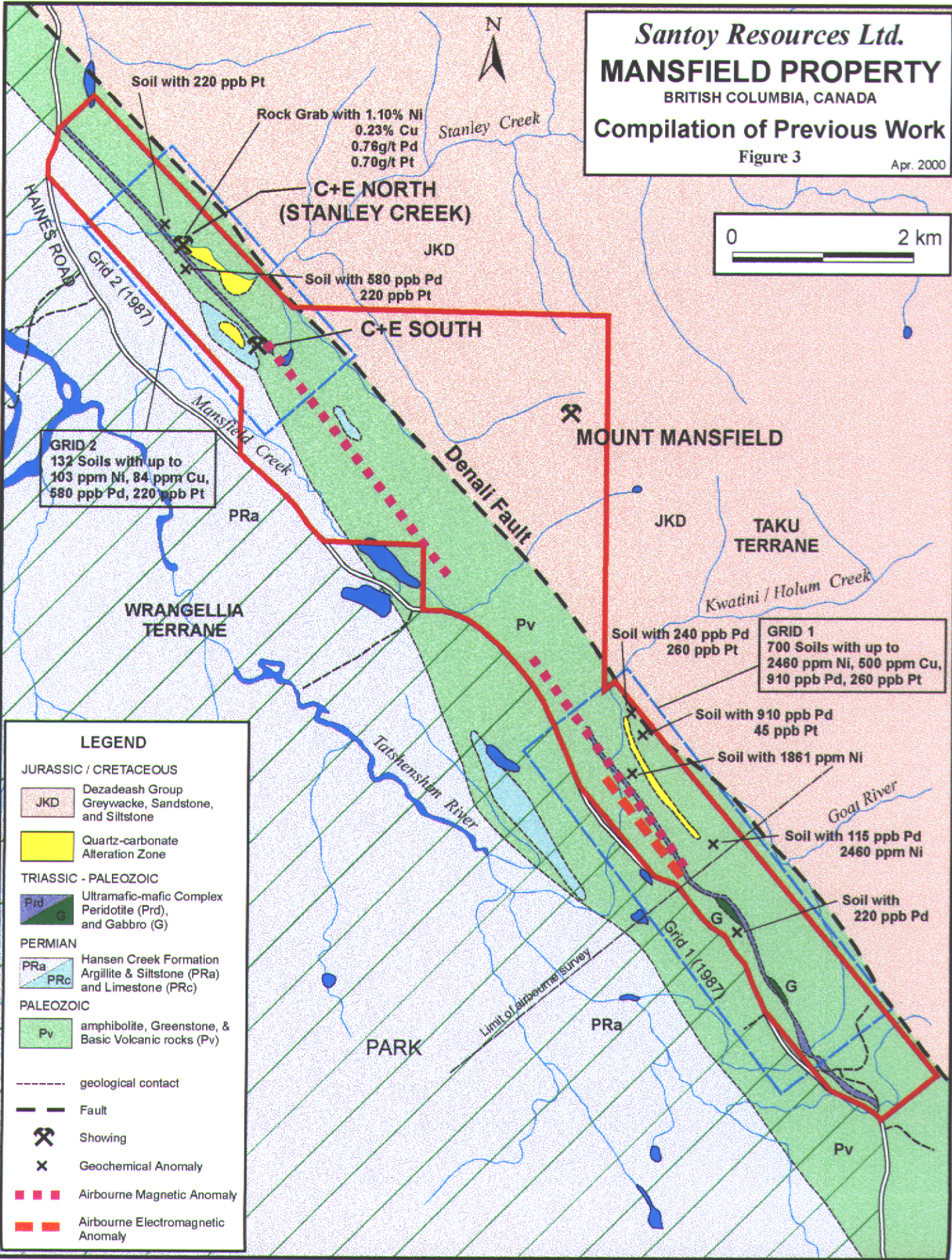
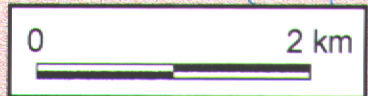
Most of the Mansfield Property lies within the Wrangellia Terrane, but the eastern portions of the claims occur within the adjacent Taku Terrane (see attached Figure). The Wrangellia Terrane or Kluane Belt consists of allochthonous accreted material, which is bound to the west by the Duke River Fault and the east by the Denali Fault.

The Kluane mafic-ultramafic belt is second only in size and extent to the Circum-Superior Belt (CSB) of Canada and has similar features with respect to: lithological zonation, silicate mineralogy, distribution of ores, and Ni-Cu-PGE grades. However unlike the CSB intrusions, which are Proterozoic and of komatiitic origin the Kluane Belt intrusive complexes are clearly younger, tholeiitic, and generally much larger in size.

These zoned bodies are sill- and lens-like in form and are believed to represent subvolcanic magma chambers that fed the overlying Triassic Nicoli basalt. On a regional scale, these bodies preferentially intrude Pennsylvanian to Permian country rock sequences at or near the contact between the Station Creek and Hasen creek Formations. This marks an important break from volcanic and volcanoclastic rocks to argillite, chert and carbonate strata. This Permian strata acted as an important source of magma contamination that subsequently initiated sulphide immiscibility.

The best mineralization appears to be concentrated as a result of riffling of sulphide-bearing magma flowing over irregularities at the base of the intrusion. However, other styles of mineralization such as the Ni-rich "offset" ores that occur well within the footwall strata of the White River Complex, "skarn" ores juxtaposed with the Permian carbonate at the Quill Creek Complex, disseminated sulphides within or above the gabbro-ultramafic zone contact in most intrusions, and PGE+Au rich zones associated with hydrothermal (metasomatic) quartz-carbonate

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Compilation of Previous Work
 Figure 3
 Apr. 2000



GRID 2
 132 Soils with up to
 103 ppm Ni, 84 ppm Cu,
 580 ppb Pd, 220 ppb Pt

GRID 1
 700 Soils with up to
 2460 ppm Ni, 500 ppm Cu,
 910 ppb Pd, 260 ppb Pt

LEGEND

JURASSIC / CRETACEOUS

- JKD Dezadeash Group Greywacke, Sandstone, and Siltstone
- Quartz-carbonate Alteration Zone

TRIASSIC - PALEOZOIC

- Prd Ultramafic-mafic Complex Peridotite (Prd), and Gabbro (G)

PERMIAN

- PRa Hansen Creek Formation Argillite & Siltstone (PRa) and Limestone (PRc)

PALEOZOIC

- Pv amphibolite, Greenstone, & Basic Volcanic rocks (Pv)

----- geological contact

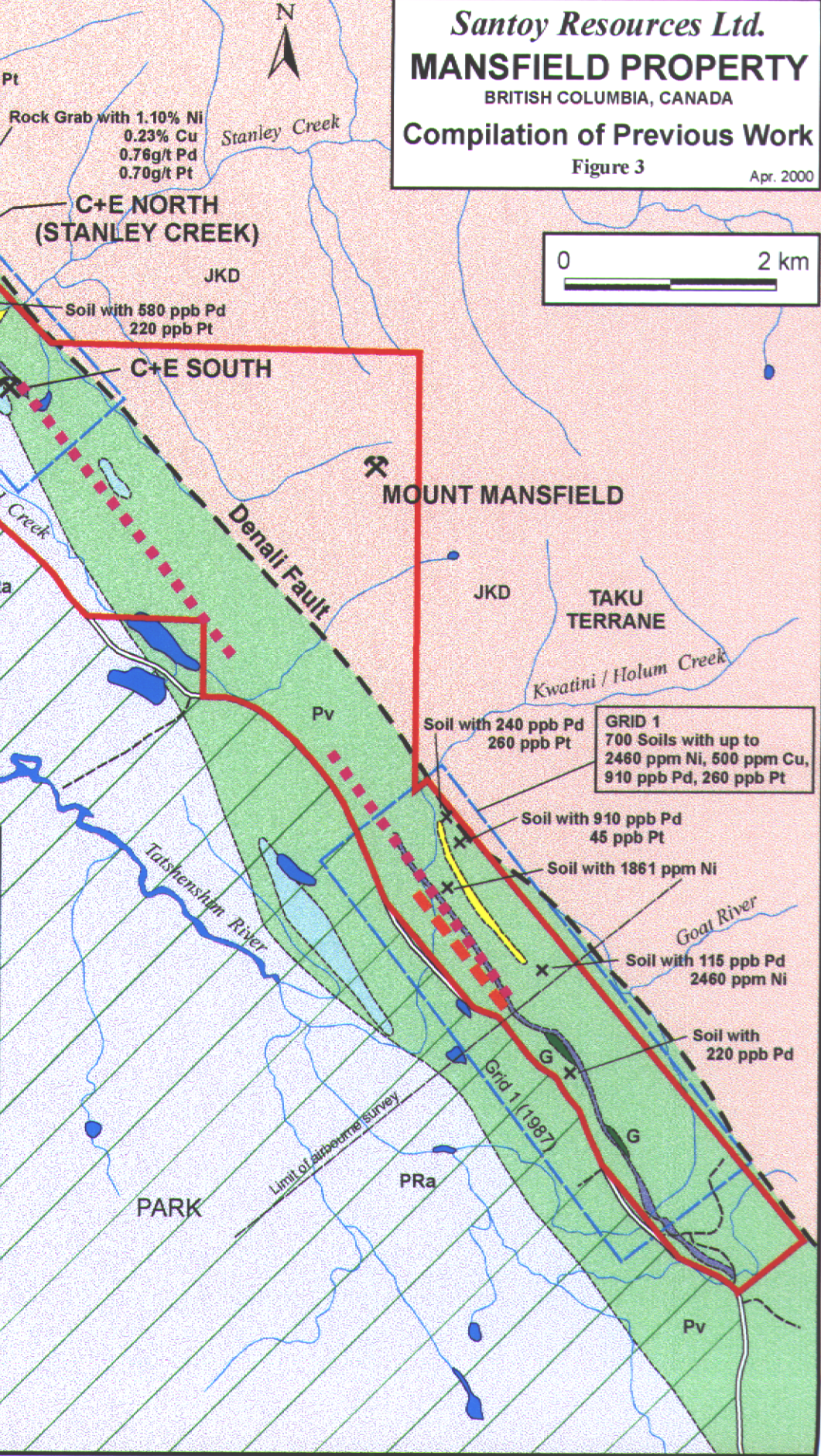
--- Fault

⚡ Showing

x Geochemical Anomaly

■ Airborne Magnetic Anomaly

■ Airborne Electromagnetic Anomaly



alteration that envelope the extremities of many intrusions, are also important reserves. In addition, the ultramafic zones of the Kluane intrusions should be re-examined as sizeable Ni-Cu-PGE massive sulphide concentrations can be contained within this zone.

The most distinctive mineralogical feature associated with the Kluane Belt is the TiO₂ -rich nature of chromite. The only other intrusions known to contain chromite with comparable TiO₂ contents are those hosting the Ni-Cu-PGE ores of the Noril'sk region of Russia.

Mining of the Wellgreen deposit from 1972-1973 in the Quill Creek Complex has demonstrated that basal accumulations of massive sulphides are generally up to 60 m in length, less than 20 m in thickness, and have average mill feed grades of 2.23% Ni, 1.39% Cu, 1300 ppb Pt, 920 ppb Pd, 171 ppb Au, 400 ppb Rh, 420 ppb Ru, 250 ppb Ir, 200 ppb Os and 200 ppb Re.

Property Geology

The Kluane Belt in the vicinity of the claims consists of Pennsylvanian -- Permian island arc volcanic and volcanoclastic rocks that are unconformably overlain by Paleozoic-Mesozoic basic volcanic flows, Triassic argillite and argillaceous limestone, and Upper Triassic limestone and amygdaloidal basalt

The belt has a complex igneous and tectonic history. The above mentioned units were intruded during the Lower Triassic by gabbro and ultramafic sills, during the Cretaceous by granodiorite plutons and in the Tertiary by gabbro and felsite dykes. Strong movements along the Duke River and Denali faults during the Cretaceous to Tertiary have further affected all units. Many splays off these faults in a westerly orientation may be responsible for quartz carbonate alteration zones and offsetting of the ultramafic body.

The area of interest is a relatively thin, sill of sheared peridotite, commonly about 50 m wide, which has been identified in four widely spaced and roughly linear outcrops and is believed to represent the Triassic aged Kluane ultramafics. In addition, three excavator trenches, sited on the basis of geophysical anomalies also confirmed the presence of the sill at other localities. At two localities the sill has a thin margin of gabbro associated with it. Quartz carbonate alteration zones are commonly associated with or near known ultramafic bodies. The presence of a large (1700 m

x 125 m) quartz carbonate zone, northeast of the ultramafic body in the area cut by Kwatini Creek, along the creek bank, suggests the possibility of another ultramafic body within the core of this zone. A quartz carbonate alteration zone at Stanley Creek is also exposed for over 1200 m along the creek. These exposures along with the airborne magnetic coverage suggest a 13 - kilometre trend of prospective Kluane ultramafic- mafic intrusions.

The youngest rocks in the area occur within the Taku Terrane, north and east of the Denali Fault, and consist of upper Jurassic to lower Cretaceous greywacke, sandstone, and siltstone of the Dezadeash Group.

Geological Units

The property geology shown on the Compilation map is an assemblage of previous work reported in Assessment Reports 740, 17124, 18823 and in G.S.C Bulletin 506. The main geological units on the property in order from youngest to oldest are described below:

Numerous fault and secondary faults associated with the NW trending Denali Fault which strike unparallel to the rock units have sheared and altered many of the units. The presence of drainages and gulleys in a westerly direction along with offsetting of the ultramafic body infers west striking faults. Very few contacts relationships are observed between the following units due to extensive till cover, and in some cases sheared contacts.

Intrusions

Tertiary

Quartz – Carbonate Unit (Qtz/Carb) - consists of cream to orange colored, silicified, amorphous rocks that are probably the altered equivalents of older mafic or ultramaficrocks. Thin calcite and silica veinlets are pervasive throughout and hematitic weathering is also noted. This rock type is included with the Tertiary Intrusions as it most likely is associated with fluid alteration spatially associated with faulting and intrusion during this time period. The presence of a quartz carbonate zone for over 1000 metres along the south bank of Stanley Creek and sizeable zones along Kwatini or Holum Creek indicate that it is deserving of a distinct unit. The association with hydrothermal or re-mobilized platinum group elements is also another factor.



Photograph 5: Gossan Zone of iron carbonate on south bank of Kwatini Creek, note person near center of photo for scale



Photograph 6: View up Goat River from showings canyon and near continuous outcrop

Permian- Triassic

Pyroxene Gabbro Unit (PTRb)- at least two main gabbro sills are noted in the Grid 1 area with a marginal gabbro also noted near the peridotite sill. The gabbros occur to the north of the peridotite sill and range up to 200 metres in thickness, based on an assumed near vertical dip. These gabbros were examined usually consist of fine – medium grained equigranular plagioclase, pyroxene and olivine. Invariably near investigated anomalies the gabbro has been carbonate veined , but other than occasional trace pyrrhotite or chalcopyrite appears unmineralized. The 1987 program also noted pegmatitic phases. The marginal gabbro's were not able to be observed in the now filled in trenches but according to Hulbert (Bulletin 506) they are highly sheared and altered and range in composition between mela-gabbro and feldspathic olivine clinopyroxenite. These rocks are dark grey to greenish black and appear to have consisted primarily of clinopyroxene, lesser amounts of olivine, and up to 30% interstitial plagioclase.

Ultramafic Sills- Peridotite (PTRub) – consist of medium to coarse grained dark greenish black serpentinized peridotite (wehrlite) and olive pyroxenite. The rock is generally competent and massive in areas not overprinted by shearing, but adjacent to and within shear zones the rocks are strongly foliated and altered to serpentinite or clay. Brecciated zones within the ultramafic rocks can also contain quartz carbonate and epidote veinlets. Isolated patches with the trenches have noted 1-2% pyrrhotite. This unit has been traced on surface for over 3.5 kilometres and appears to average 50 metres in thickness. The unit is strongly magnetic, has returned values of 0.21% nickel over 75 metres and soils overlying it have returned mildly anomalous platinum and palladium values (Pt 17, Pd 23).

Stratified Rocks

Quaternary

Undivided Surficial Deposits (Qs) – extensive areas of the claims are underlain by thick accumulations of glacial till that average 5 metres in thickness, boggy or swampy areas comprised of thick accumulations of organics are also noted. The geological compilation map though for the most part has attempted to infer the underlying geology in these areas.

Juassic-Cretaceous

Taku Terrane – Dezadeash Group (JKd) – although not the focus of the platinum group exploration, sediments on the eastern side of the Denali Fault were noted. This unit consists of greywacke to conglomerate, sandstone and siltstone. In areas adjacent to the Denali fault the unit appears to have undergone considerable strain as evidenced by the alignment of pebbles in the conglomerate.

Triassic

Nikolai Greenstone (UTRN) – dark green to maroon amygdaloidal basalt with occasional well developed pillow structures was observed near the Haines Highway in the south part of Grid 1 and also noted on previous maps of the Grid 2 area. The amygdules are commonly filled with quartz, calcite, epidote and rarely garnet.

Paleozoic - Mesozoic

Basic Volcanics (PTRv) – consist of light green, basic volcanic rocks with local interbeds of related sediments. These rocks are northwest trending, steeply dipping (vertical to 80 degrees ENE) and are believed to represent transformed Pennsylvanian Station Creek Formation volcanic rocks. It is also possible due to the faulting and alteration that some of these volcanic rocks may also represent Nikolai greenstones. Where this unit is recessive and usually overlain by quaternary sediments it has been termed by previous workers to be subdivided as PTRv(res).

Pennsylvanian – Permian

Hasen Creek Formation (Ps) – are thin bedded, dark grey to black argillites and siltstones which are locally brecciated and/or siliceous.

Hasen Creek Formation (Pc) – are grey – buff, bioclastic limestone that is often fetid or sulphurous smelling.

Property Mineralization

The ultramafic rocks contain isolated patches with up to 0.5-2.0 % disseminated sulphides (noted in previous trenches) and hydrothermal sulphide mineralization is best known at the Stanley Creek showing. At Stanley Creek a narrow 100 degree trending fault cuts quartz carbonate material and well mineralized material selectively picked from the showing in 1987 assayed 1.1 % Ni, 0.23% Cu, 700 ppb Pt and 760 ppb Pd. Listwanitic or iron carbonate altered zones noted by previous workers also appear to be the host of several anomalous Pt-Pd soil anomalies. Oxidized outcrops 100 m south of the showing were reported to contain disseminated sphalerite, as well as trace amounts of antimony, strontium and lead carbonates. A second showing (C&E South) containing sphalerite was noted as 1000 metres south of the Stanley Creek Showing.

Sampling Procedures – 2000 Field Program

Rock, soil and silt sampling were used in the evaluation of the Mansfield property. Rock samples were collected by trained geological staff and put into sealed plastic bags for eventual transfer to Cominco Labs in Vancouver. Soil samples were collected by both geological staff and a trained assistant with the use of a long handled shovel. Soil samples were collected at varying depths which on the plateau areas averaged 30 centimetres but were less in the creek ravines. Where possible a "B" horizon sample was collected, this though was often at times difficult due to the thick buckbrush and root mass along with thick accumulations of organics and /or till. Silt samples were collected on some of the creeks and usually consisted of sand to silt sized material, which was screened from coarser material.

All samples remained in Santoy Resources personnel possession and were later put into securely tied rice sacks. The samples were then transfer to Canadian Airlines Cargo in Whitehorse for delivery to Cominco Labs in Vancouver, B.C. Three silt samples taken during the staking were taken directly to Chemex Labs in Vancouver.

Rock Sampling Results – 2000 Field Program

A total of 37 rock samples were taken during the 2000 field program (see appendix).

Proposed sampling of the previous trenches was hindered by the fact that the trenches have been reclaimed or sluffed in with only small cuts noticed in the usually thick brush. Rock samples 126956, 126957 and 126961 were taken at or near Trench 2 and only returned anomalous nickel values (highs to 1780 ppm). Sample 126958 at Trench 6 and sample 126959 at Trench 3 failed to return anomalous results.

A rock sample taken in the vicinity of the Stanley Creek Showing (not found) also failed to return significant results.

In the vicinity of the C& E South Showing where a fetid limestone was apparently the source for anomalous antimony, strontium and lead associated with zinc, soil and rock samples were taken. The soil samples returned only modestly elevated and sporadic Zn, Pb, Sb and Sr values. Rock samples 126814, 126815 and 126817 returned only anomalous strontium values (236 – 275 ppm).

Rock sampling elsewhere on the property was concentrated (~ 20 samples) near the northern portions of Grid 1 and south of Kwatini / Holum Creek. These samples for the most part returned insignificant results, however a few samples are worthy of note (listed from north to south).

<u>Sample #</u>	<u>Anomalous Result</u>	<u>Comments</u>
126965	Au 254 ppb	quartz, hematite float, possibly listwanite-gold assoc.
126808	Pt 110 ppb	silicified, Fe carb. Altered sediments
126818	Ni 2513 ppm	highly sheared, ultramafic
126954	Cu 4331 ppm	rusty shear in mafic volcanics
126801	Au 237 ppb, Pt 89 ppb	carb. veined gabbro
126810	Pt 99 ppb	iron carbonate altered gabbro

From the above list it is noted that the carbonate altered or listwanitic zones, which show no visible mineralization, are noted for containing anomalous levels of platinum.

Soil Sampling Results – 2000 Program

A total of 289 soil samples (see Appendix) were taken to test previous soil sample results in Grid 1 and Grid 2, test areas along creek drainages and also on the prospective strike between the two grids. In areas of previous anomalies sample spacings were reduced to a maximum of 25 metres with a variety of mini-grids, test pits and infilled lines employed to further test the areas. Along creek drainages 50 metre sample spacings along the cut banks allowed the collection of soils underneath the thick till mantle, noted on the plateaus.

The areas targeted are those as outlined during the compilation phase of the program, however the 2000 sample results are now discussed in context of the previous work.

Grid 1 100 S – 300 S: this area previously returned soils results to Pt 260 ppb and Pd 240 ppb and remained untested by the 1987 work program. The anomalous zones appear to have been underlain by a quartz carbonate altered zone and were upslope of the inferred trace of the ultramafic sill. During the 2000 field exploration program 46 soil samples were collected in this area. These samples failed to replicate the previous results, with only sample L 100S/225 W returning 19 ppb Pd (previous result 20 ppb Pd). Sampling through the center of the anomaly on Line 200 S (100-150W) failed to return significant results.

Grid 1 500 S: this area previously returned soil results to Pd 910 ppb and Pt 60 ppb and was also never tested in the 1987 program. The anomalous zone appears to be restricted to one line with the highest sample located at 150 W. Work completed during the 2000 field program consisted of 25 m spaced re-sampling along line 500 S, establishment of a min-grid around station 150 W and the collection of five rock samples in the area. Anomalous results were noted in the re-sampling from 250W – 375 W and include Pt to 11 ppb, and Pd to 19 ppb, these values however are significantly lower than the expected 50-60 ppb Pt and 45-910 Pd. A 50 m x 100 m mini-grid was established around previous station 150 W, the results were generally insignificant, however a site 25 metres west of the previous site returned Ni 146 ppm, Cu 291 ppm and Au 10 ppb. The five rocks samples taken in the area failed to return significant results. No explanation for the previous highly anomalous results was found, with only minor carbonate veining and less than trace chalcopyrite noted in a gabbro.



Photograph 7: Test Pit on Grid 2 at L 12+50 S/ 375E, shows collection of three soils from continuous horizons and also rock sample 126813

Photograph 8: Test Pit on Grid 1 at L 5+00S / 1+75 W, which previously returned 910 ppb Pd but three soils and one rock sample failed to duplicate the results



Grid 1 700 S / 300 W: this area previously returned nickel values to 1861 ppm, although no palladium results could be found but platinum had highs to 30 ppb. Reconnaissance work in the area discovered a small exposure of peridotite with one soil returning Ni 1911 ppb, Pt 17 ppb and Pd 16 ppb. A rock sample in the area however failed to return significant results.

Grid 1 L 900 S- 1000S Baseline: this area previously returned weakly anomalous platinum (30 ppb) near a small lake. Iron carbonate variably sheared gabbro was noted and a soil sample returned Ni 187 ppm, Cu 166 ppm, and Pd 11 ppb.

Grid 1 L 1600 S: previously soil sampling in this area returned values to Pt 75 ppb and Pd 30 ppb. Twenty one samples were taken during the 2000 field program over this area with generally insignificant results. Samples at 400 W, 450 W and 475 W returned anomalous Ni (107, 348, 174 ppm) with 450 W also returning anomalous palladium (12 ppb), weakly anomalous gold was also noted at 125 W and 150 W (11, 12 ppb). One rock sample taken near the 25 W returned anomalous gold (Au 237 ppb). These results indicate the probable presence of the ultramafic from 400-475 W, weak gold levels associated with carbonate veining of gabbro, however no replication of the previous Pt-Pd results.

Grid 1 L 1900S, Trench 2: This area was the site where Trench # 2 returned 75 metres of 0.21 % Ni with soils returning Pd 115, Pt 35, Cu 134, and Ni 2460. Although the Trench is nearly all filled in, areas of subcrop and outcrop along with small cut banks could be examined. Three rock samples taken in the area returned only anomalous nickel (1523-1780 ppm) with no anomalous gold, platinum or palladium. One soil sample taken immediately downslope of the ultramafic returned Ni 2010 ppm, Cu 180 ppm, Au 11 ppb, Pt 16 ppb, Pd 23 ppb.

Grid 1 L 2500 S: although this area near the Haines Highway and a small gulley had not previously returned anomalous results it was located between line 25 and 26. Soil samples and one rock sample indicate the presence of weakly anomalous Ni (124 ppm), Cu (170 ppm) and Pd (17 ppb) associated with shearing in an ultramafic.

Tatshenshini – Goat River: although hindered somewhat by bluffs and cliffs along the riverbanks this gulley provided a natural section across the property. A total of 26 soil samples were taken along the south bank of the river, with some taken near the ridge crest to avoid the cliffs. Samples 33-35 returned weakly anomalous Ni, Au and Pd perhaps indicative of an underlying ultramafic.

Sample 54-56 returned weakly anomalous Ni, Cu and Pd and may reflect carbonate alteration of a mafic volcanic. Three rock samples taken along the creek generally returned insignificant results, one sample however did return Au 84 ppb and another Pt 99 ppb. Prospecting failed to find the peridotite sill, however a thick section of basic volcanics intruded by a gabbro was noted.

Grid 1 L 3900 S: previous results in this area included values to Pt 110 ppb and Pd 30 ppb. A small gully was noted in this area just above the anomalous site, which was located in a raised-bench boggy area. Six soil samples were taken in the area with sample 93 taken at the previous site in an area that was very swampy with the new sample taken at a depth of 85 cm below peaty organics. Sample 93 returned Ni 1392 ppb, Pt 18 ppb and Pd 11 ppb from clayey pockets within the thick organics. These results along with the magnetics suggest an underlying ultramafic.

Grid 1 L 4100 S: approximate area, which is located in creek gully to the northeast of the baseline. Soils from carbonate-altered zones returned anomalous Cu (< 209 ppm), Au (< 54 ppb), and Pd (<11 ppb), near the inferred trend of a gabbro.

Stanley Creek Showing: The original discovery in 1965 notes oxidized mineralization which assayed up to 4.6% Ni, and 4% Cu across 1.2 m, exposed in a narrow fault cutting the quartz carbonate zone along the southern side of Stanley Creek. Assessment Report 18, 823 reports grab samples from the showing area which returned 1.1% nickel, 0.23% cobalt, (sic? copper), 660 ppb platinum and 430 ppb palladium under the Summary and Recommendations heading. Later in the report it is noted that since 1965 the base of the showing has been eroded by Stanley Creek and no evidence of the old trench sites is noted. In 1987 a water pump was used to wash down the face of the outcrop to expose the showing, which is hosted by a narrow fault striking about 100 degrees. The fault cuts quartz carbonate material exhibiting listwanitic alteration, but no obvious nickel or copper carbonates or sulphides were noted. Well-mineralized specimens of vein material collected below the showing assayed up to 1.10% nickel, 0.23% copper, 700 ppb platinum and 760 ppb palladium. A channel sample across the fault zone however did not duplicate the 1965 data and only assayed 0.03% copper, 0.08% nickel, 0.002 opt platinum and 0.002 opt palladium across 1.2 m. An excavator trench (Trench #1) was cut at the top of the creek bank along strike but failed to reach bedrock. Neither the unsuccessful trench nor the showings were located during limited exploration in 2000.

Grid 2 600S: previous sampling in this area returned values to 580 ppb Pd and 220 ppb Pt. Offset 100 metres to the NE is a site which returned 26 ppb Au, which may be indicative of a marginal Au- listwanitic type setting. Fourteen soil samples were taken at approximately 10 m spacings, however they failed to return significant results. On the eastern side near the previous anomalous gold result a swampy area was noted, other portions of the line were covered by thick buckbrush.

Grid 2 L 800 S- 1400 S: previous sampling in this area had returned a large diffuse zone with values to Pt 75 ppb and Pd 60 ppb. This area generally occurs along a NW trending ridge crest which may be on trend with the Stanley Creek Showing. Three test pits were dug , 69 soil samples and 1 rock sample were collected during the 2000 investigation. The test pits were dug by hand to depths of 1- 1.5 m deep, with soil samples collected at varying depths for soil profiling. No significant variability was noted in the results from different horizons. The 69 soil samples were collected from a re-sample of the previous lines, infill lines and multiple horizons within the test pits. The soil grid samples did not replicate the previous anomalous results, with no significant values returned. Within a test pit located near the summit of the ridge and presence of mafic subcrop anomalous nickel values (Ni 337-444 ppm) were returned. A rock sample (126813) collected at the base of one of the test pits failed to return significant results but showed that the corresponding soils may show an upgrade of 50-100 % in nickel and copper relative to the rock.

C&E South Showing: previous work in 1965 (Assessment Report 740) noted disseminated sphalerite along with traces of oxides and carbonates of antimony, strontium and lead located 4,000 feet southeast of the Stanley Creek Showing. A ridge of fetid (sulphurous smelling) Hasen Creek limestone was noted in this area, along with the presence of several 1-2 m deep pits. A line of 10 soil samples across the ridge and 3 rock samples were taken in the area. With the exception of one sample taken at the NE end of the line (Ni 210 ppm) no anomalous results (Ni, Cu, Au, Pt, Pd) were noted. An examination of the zinc, antimony, strontium and lead shows that the rocks and soils are only anomalous in strontium (soils averages 68 compared to average 24, and rocks 236 -275).

Areas Between Grids 1 & 2: several areas were prospected and sampled between the 1987 grids as their existed over 4 kilometres of prospective ground that had not been explored. Two soil lines (totaling 28 samples) were completed in the vicinity of Twin Lakes and 21 soil samples were collected along Kwatini or Holum Creek. The two lines northwest and southeast of Twin

Lakes failed to return significant results, although a few sporadic weakly anomalous copper and gold values were noted. The 21 soil samples collected along the banks of Kwatini/Holum Creek display a number of nickel, copper, gold and palladium in the first 350 metres of the canyon and gold with minor nickel and copper at 700-900 metres upstream from the start of the canyon. In the lower part of the canyon significant gossan zones comprised of iron carbonate altered ultramafic rocks are noted. Values of up to Pd 16, Au 18, Cu 239 and Ni 108 are noted in the soils. In the upper portions of the creek values of up to Au 18, Cu 224 and Ni 167 are noted in the vicinity of iron carbonate zones and the Denali Fault.

Silt Sampling Results – 2000 Program

A total of 4 silt samples (see Appendix) were collected during the 2000 field program, of which 3 were collected during the staking program. Silt 131953 on Stanley Creek downstream of the Stanley Creek Showing returned weakly anomalous gold (Au 10 ppb) and copper (Cu 84 ppm). Samples 131951 on Goat or Tatshenshini River and 131952 on Kwatini or Holum Creek did not return significant results. Later during the main phase of work silt 00ATM-L001 was collected from a creek that flows into Twin Lakes near the central portions of the claims. This later sample returned Cu 123 ppm, Au 40 ppb and just above background for palladium and platinum (5, 6 ppb).

Discussion of Sampling Results – 2000 Program

A total of 289 soil samples, 37 rocks samples and 4 silt samples were collected during the 2000 field program. These samples on the whole returned generally disappointing results, especially when compared to the previous sampling in 1987. Anomalous levels of nickel, copper, gold, palladium and platinum were detected primarily in the previous Grid 1 area. A soil sample taken in the vicinity of Trench 2 returned Ni 2010 ppm, Cu 180 ppm, Au 11 ppb, Pt 16 ppb, Pd 23 ppb which along with the geological observations indicates the presence of an ultramafic body with anomalous levels of platinum group elements and gold. Rock sampling of the ultramafic however has not returned values greater than the detection limit of Pt 69 ppb and Pd 34 ppb. Previous trench sampling in 1987 also failed to return significant precious metals.

Previous soil sampling indicated that areas underlain by iron carbonate veined gabbro and not the expected peridotite or ultramafic sill returned higher platinum and palladium values. Although

these areas did not return platinum and palladium values as high as the previous work they did return anomalous levels (Pt 10, Pd 11), particularly along Kwatini or Holum Creek. The highest platinum or palladium in rocks also came from iron carbonate altered mafic rocks. These results suggest that secondary carbonate veining may be responsible for the remobilization of platinum group elements.

Previous sampling at the Stanley Creek Showing has also returned selected samples which assayed up to 1.10% nickel, 0.23% copper, 700 ppb platinum and 760 ppb palladium which confirms the presence of platinum group elements.

Recommendations and Conclusions – 2000 Work Program

The Mansfield Complex occurs at the southern end of the newly recognized Kluane Ni-Cu-PGE belt and was only partially explored for PGE's in 1987-1988. The 1987 work returned 1.1% Ni, 0.23% Co, 0.66 g/t Pt and 0.43 g/t Pd from float near the Stanley Creek showing, airborne magnetic and electro-magnetic anomalies, and soil anomalies to 500 ppm Cu, 2460 ppm Ni, 260 ppb Pt and 910 ppb Pd. Work completed in 2000 included the collection of 289 soil samples, 37 rocks samples and 4 silt samples, that failed to return results as anomalous. Sample results from the 2000 field program however do demonstrate the presence of a nickel bearing (0.2% Ni) ultramafic sill which is inferred to be 50 metres thick and positively identified for over 3.5 kilometres. This sill also contains anomalous levels of platinum group elements (Pt 17 ppb and Pd 23 ppb) that have been detected in overlying soils. Although limited rock sampling of the sill did not contain anomalous values the results are somewhat encouraging given the low levels of sulphides.

Hydrothermal or remobilized mineralization noted in the quartz carbonate or listwanitic zones at Stanley Creek was also noted as anomalous levels of nickel, copper, gold and palladium in soil sampling along Kwatini or Holum Creek.

The 2000 field program was hindered by wet, cool weather, thick buckbrush, and swampy or boggy areas and till cover that made traversing difficult at best. In many instances previously anomalous areas were underlain by extensive till and/or swampy or boggy areas that made follow up problematical.

Based on the results of the 2000 field program the following recommendations are made:

1. Sample pulps be selected from the previously anomalous areas be re-run both at Cominco Labs and also at an outside lab.
2. That any future soil sampling be conducted with the use of an auger to enable a sample of basal till or soil overlying bedrock.
3. That the 1987 airborne geophysical data be examined and reinterpreted to look for areas of possible sulphide accumulations that may contain significant platinum group elements.
4. That a ground magnetometer be used in areas of cover to establish the underlying ultramafics.
5. That the implications of hydrothermal or remobilized platinum group elements be examined in context of such areas as the Stanley Creek Showing and Kwatini or Hloum Creek.
6. Any further fieldwork should be focused on re-sampling at the Stanley Creek Showing, sampling of the Kwatini or Holum Creek iron carbonate gossans, and the examination and sampling of marginal gabbro's to the peridotite sill.

References

Ash, C.H and Arksey, R.L: The Listwanite – Lode Gold Association in British Columbia, *Geological Fieldwork 1989, Paper 1990-1*

Davis, D.C and Main, C: Geological, Geophysical, Geochemical and Physical Work on the Mansfield, Jane, Marilyn, Monroe, Jean, Harlow, Diana, Dors, Dolly-Parton, Lonni, Blondie, Goldie, Day and Dorris Claims, Assessment Report 18823, 1988

Erwin, W.M, Geological, Geochemical and Geophysical Report of the C&E Claims, Assessment Report 740, 1965

Hulbert, L.J, Geological Survey of Canada Bulletin 506: Geology and Metallogeny of the Kluane Mafic – Ultramafic Belt, Yukon Territory, Canada: Eastern Wrangellia – A New Ni-Cu-PGE Metallogenic Terrane, 1995

McConnel, D.L: Geophysical Work on the Marilyn, Monroe, Mansfield, Jane, Jean, Harlow, Diane and Dors Claims, Assessment Report 17124, 1988

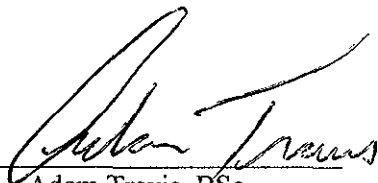
Appendix I

Statement of Qualifications

CERTIFICATE OF QUALIFICATIONS – To Accompany Mansfield Property Assessment Report , British Columbia, Canada’, Dated 1 June 2001.

I, Adam Travis, BSc. of 3579 Lansbury Court Westbank British Columbia hereby certify that:

1. I am a consulting geologist with an office at 3579 Lansbury Court Westbank, British Columbia, V4T 1C5.
2. I am a graduate of the University of British Columbia (B.Sc. Major Geology, 1990)
3. I have practiced my geological profession since 1986 in many parts of Canada, United States, Mexico and Africa.
4. I was present and supervised all aspects of work on the Mansfield property contained within this report.
5. I have gathered my information for this report from government publications, internal company memos, geological field notes and data that is believed to be reliable and accurate.
6. Based on company reports and information an expenditure of \$29, 698.26 appears accurate for the 2000 work on the Mansfield Property.
7. I hold shares in Santoy Resources however this position has not changed based on this report.
8. I hereby grant my permission for Santoy Resources to use this Geological Report for whatever purposes it wants, subject to the disclosures set out in this Certificate.
9. Signed in Vancouver, British Columbia on the 1th day of June 2001.


Adam Travis, BSc.

Appendix II

Claim Details

Santoy Resources - Mansfield Claims, Atlin Mining Division - Current to March 30, 2001

Claim Name	Tenure #	NTS	Good Till Date	Status	Units	Tag #
MAN 1	<u>374833</u>	114P15E	20010301	Forfeited 20010301	1	690950M
MAN 2	<u>374834</u>	114P15E	20010301	Forfeited 20010301	1	690951M
MAN 3	<u>374835</u>	114P15E	20010301	Forfeited 20010301	1	690952M
MAN 4	<u>374836</u>	114P15E	20010301	Forfeited 20010301	1	690953M
MAN 5	<u>374837</u>	114P15E	20010301	Forfeited 20010301	1	690954M
MAN 6	<u>374838</u>	114P15E	20010301	Forfeited 20010301	1	690955M
MAN 7	<u>374839</u>	114P15E	20010301	Forfeited 20010301	1	690956M
MAN 8	<u>374840</u>	114P15E	20010301	Forfeited 20010301	1	690957M
MAN 9	<u>374841</u>	114P15E	20010301	Forfeited 20010301	1	690958M
MAN 10	<u>374842</u>	114P15E	20010301	Forfeited 20010301	1	690959M
MAN 11	<u>374843</u>	114P15E	20010301	Forfeited 20010301	1	690960M
MAN 12	<u>374844</u>	114P15E	20010301	Forfeited 20010301	1	690961M
MAN 13	<u>374845</u>	114P15E	20010302	Forfeited 20010302	1	690962M
MAN 14	<u>374846</u>	114P15E	20010302	Forfeited 20010302	1	690963M
MAN 15	<u>374847</u>	114P15E	20010302	Forfeited 20010302	1	690964M
MAN 16	<u>374848</u>	114P15E	20010302	Forfeited 20010302	1	690965M
MAN 17	<u>374849</u>	114P15E	20010302	Forfeited 20010302	1	690966M
MAN 18	<u>374850</u>	114P15E	20010302	Forfeited 20010302	1	690967M
MAN 19	<u>374851</u>	114P15E	20010302	Forfeited 20010302	1	690968M
MAN 20	<u>374852</u>	114P15E	20010302	Forfeited 20010302	1	690969M
MAN 21	<u>374853</u>	114P15E	20010302	Forfeited 20010302	1	690970M
MAN 22	<u>374854</u>	114P15E	20010302	Forfeited 20010302	1	690971M
STAN 1	<u>374859</u>	114P15E	20010302	Forfeited 20010302	20	239279
STAN 2	<u>374860</u>	114P15E	20010302	Forfeited 20010302	20	239280
STAN 3	<u>374861</u>	114P15E	20010302	Forfeited 20010302	20	239281

Santoy Resources - Mansfield Claims, Atlin Mining Division - Current to March 30, 2001

Claim Name	Tenure #	NTS	Good Till Date	Status	Units	Tag #
STAN 4	<u>374862</u>	114P15W	20030303	Good Standing 20030303	1	691010M
STAN 5	<u>374863</u>	114P15W	20030303	Good Standing 20030303	1	691011M
STAN 6	<u>374864</u>	114P15W	20030303	Good Standing 20030303	1	691013M
STAN 7	<u>374865</u>	114P15W	20030303	Good Standing 20030303	1	691012M
STAN 8	<u>374866</u>	114P15W	20030303	Good Standing 20030303	1	691014M
STAN 9	<u>374867</u>	114P15W	20030303	Good Standing 20030303	1	691015M
STAN 10	<u>374868</u>	114P15W	20030303	Good Standing 20030303	1	691016M
STAN 11	<u>374869</u>	114P15W	20030303	Good Standing 20030303	1	691017M
STAN 12	<u>374870</u>	114P15W	20030303	Good Standing 20030303	1	691018M
STAN 13	<u>374871</u>	114P15W	20030303	Good Standing 20030303	1	691019M
STAN 14	<u>374872</u>	114P15W	20030303	Good Standing 20030303	1	691020M
STAN 15	<u>374873</u>	114P15W	20030303	Good Standing 20030303	1	691021M
STAN 16	<u>374874</u>	114P15W	20030303	Good Standing 20030303	1	691022M
STAN 17	<u>374875</u>	114P15W	20030303	Good Standing 20030303	1	691023M

Appendix III

Statement of Expenditures

Labour (August 2, 2001 –August 5, 2001 and August 21, 2001 – August 27, 2001)

Ron Nichols, Project Supervisor	\$ 400 / day x 2 days	\$ 800.00
Adam Travis, Senior Geologist	\$ 300 / day x 16.5 days	\$ 4,950.00
Lisa Tulk, Geologist	\$ 225 / day x 8.5 days	\$ 1,912.50
Blake Henwood, assistant	\$ 160 / day x 11.5 days	<u>\$ 1,840.00</u>
Total Labour		\$ 9,502.50

Geochemical Analysis (Cominco Labs, Chemex Labs)

37 rock samples @ \$27 / rock	\$ 999.00
289 soil samples @ \$ 25 / soil	\$ 7,255.00
4 silt samples @ \$ 25 / silt	\$ 100.00
Shipment (Canadian Air Cargo)	<u>\$ 244.72</u>
Total Geochemical Analysis	\$ 8,568.72

Camp Costs

Truck, Trailer, ATV Rental	\$ 1,820.00
Food, groceries	\$ 842.35
Supplies (Deakin etc.)	\$ 915.11
Hand Held Radio Rentals	\$ 150.00
Satellite Phone (Globalstar), rental and use	<u>\$ 500.00</u>
Total Camp Costs	\$ 4,277.46

Transport

Fuel (gas, propane)	\$ 897.06
Norcan Truck Rental (pro-rated)	\$ 568.09
Hotel	\$ 309.07
Taxi	\$ 22.00
Canadian Airlines	\$ 500.00
Food while travel	<u>\$ 353.36</u>
Total Transport	\$ 2,649.58

Office and Reporting

Ron Nichols, Project Supervisor	\$ 400.00
Adam Travis, Senior Geologist, report prep.	\$ 2,400.00
Lisa Tulk, Geologist	\$ 450.00
Terry Lee, drafting, computer	\$ 1,000.00
Report Copying, plotting, printing etc.	<u>\$ 500.00</u>

Total Office and Reporting	\$ 4,750.00
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Total Expenditures	\$ 29,698.26
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Appendix IV

2000 Compiled Assay Results

Mansfield Property - Rock Sampling August 2000

SampNo	UTMX	UTMY	Au(3) g/t	Pt(1)g/t	Pd(1) g/t	Cu ppm	Ni ppm
126801	406785	6636959	0.237	0.089	0.017	69	41
126802	405762	6638437	0.067	0.034	0.017	108	20
126803	405717	6638253	0.017	0.034	0.017	95	26
126804	405715	6638271	0.017	0.08	0.017	38	255
126805	405893	6638006	0.017	0.034	0.017	73	26
126806	406379	6637722	0.017	0.034	0.017	59	18
126807	405564	6638337	0.017	0.034	0.017	160	46
126808	405583	6638430	0.056	0.11	0.017	34	5
126809	405623	6638594	0.017	0.069	0.017	52	171
126810	407975	6635513	0.017	0.099	0.017	101	33
126811	407966	6635599	0.084	0.034	0.017	119	23
126812	407948	6635800	0.017	0.034	0.017	134	20
126813	401227	6643307	0.017	0.034	0.017	64	59
126814	401203	6642808	0.017	0.034	0.017	4	2
126815	400984	6642823	0.017	0.034	0.017	0.5	1
126817	401087	6642778	0.017	0.034	0.017	0.5	4
126818	405482	6638208	0.017	0.034	0.017	81	2513
126819	405476	6638197	0.017	0.034	0.017	55	57
126951	400617	6644040	0.017	0.034	0.017	29	26
126952	405960	6637725	0.017	0.034	0.017	6	19
126953	405906	6637673	0.017	0.034	0.017	49	125
126954	405583	6638011	0.017	0.034	0.017	4331	66
126955	405484	6638152	0.017	0.034	0.017	138	2
126956	406692	6636576	0.017	0.034	0.017	50	1780
126957	406696	6636580	0.017	0.034	0.017	87	1627
126958	406977	6636164	0.017	0.034	0.017	58	74
126959	407280	6635683	0.017	0.034	0.017	104	19
126960	403118	6640717	0.017	0.034	0.017	81	23
126961	406713	6636555	0.017	0.034	0.017	167	1523
126962	405983	6637502	0.017	0.034	0.017	59	26
126963	405531	6638245	0.065	0.034	0.017	72	10
126964	405671	6638622	0.034	0.034	0.017	21	1
126965	405664	6638682	0.254	0.034	0.017	8	4
126966	406035	6637785	0.017	0.034	0.017	85	85
126967	406029	6637796	0.017	0.034	0.017	134	20
126968	406017	6637810	0.017	0.034	0.017	40	45
126969	406977	6635947	0.017	0.034	0.017	61	38

Mansfield Property - Soil Sampling August 2000

Sample No.	UTMX	UTMY	Au ppb	Pt ppb	Pd ppb	Cu ppm	Ni ppm
00BHM-S082	406064	6637745	3	2	3	39	52
00BHM-S083	406018	6637804	10	2	4	291	146
00BHM-S084	406003	6637825	3	2	2	33	25
00BHM-S085	406028	6637747	5	2	6	181	36
00BHM-S087	405999	6637788	4	2	4	166	44
00BHM-S088	405984	6637808	4	2	3	72	28
00BHM-S089	406824	6636158	3	2	2	34	39
00BHM-S090	406990	6635968	7	2	15	170	124
00BHM-S091	406960	6635984	5	2	17	190	76
00BHM-S092	406946	6635953	10	5	10	125	74
00BHM-S093	407714	6634895	7	18	11	113	1392
00BHM-S094	407732	6634901	4	5	6	97	459
00BHM-S095	407768	6634929	7	2	2	70	36
L500S-75W	406080	6637800	3	5	2	44	24
L500S-100W	406059	6637785	2	2	1	16	19
L500S-125W	406038	6637770	3	2	1	24	18
L500S-150W	406017	6637755	3	6	3	147	20
L500S-175W	405996	6637740	3	5	1	36	17
L500S-200W	405975	6637725	2	6	1	46	22
L500S-225W	405954	6637710	9	6	1	25	22
L500S-250W	405933	6637695	4	11	6	27	22
L500S-275W	405912	6637680	3	11	13	40	36
L500S-300W	405891	6637665	2	10	6	34	23
L500S-325W	405870	6637650	2	2	4	29	25
L500S-375W	405849	6637635	7	5	19	216	88
L500S-400W	405828	6637620	2	2	2	39	101
L500S-425W	405807	6637605	1	2	2	25	46
L500S-450W	405787	6637590	9	7	7	91	106
600S-300E	400786	6643807	2	5	1	21	20
600S-310E	400795	6643814	1	2	1	19	22
600S-320E	400803	6643821	2	5	1	30	24
600S-330E	400812	6643826	3	15	1	25	30
600S-340E	400820	6643833	2	6	1	28	19
600S-350E	400829	6643840	1	2	1	29	26
600S-360E	400836	6643845	1	2	1	18	35
600S-370E	400843	6643850	1	2	1	28	21
600S-380E	400851	6643856	2	2	1	23	28
600S-390E	400860	6643862	2	5	1	21	55
600S-400E	400868	6643868	1	5	1	34	56
600S-410E	400876	6643874	1	6	1	19	25
600S-420E	400885	6643881	1	2	1	34	23
600S-460E	400914	6643902	3	2	1	18	38
00ATM-S001	400632	6644041	1	2	1	110	60
00ATM-S002	406653	6636546	11	16	23	180	2010
00ATM-S014	408120	6635457	4	6	9	138	57

Mansfield Property - Soil Sampling August 2000

Sample No.	UTMX	UTMY	Au ppb	Pt ppb	Pd ppb	Cu ppm	Ni ppm
00BHM-S032	404353	6639550	5	2	4	104	52
00BHM-S033	407558	6634887	30	2	3	56	52
00BHM-S034	407598	6634916	7	2	1	45	164
00BHM-S035	407628	6634940	39	5	11	71	111
00BHM-S036	407662	6634986	4	2	3	62	40
00BHM-S037	407696	6635029	5	2	3	71	29
00BHM-S038	407738	6635059	3	2	3	42	25
00BHM-S039	407778	6635088	4	2	2	30	25
00BHM-S040	407825	6635116	5	2	2	33	26
00BHM-S041	407848	6635158	8	2	2	24	29
00BHM-S042	407876	6635201	6	2	3	34	25
00BHM-S043	407906	6635246	6	2	2	35	28
00BHM-S044	407924	6635289	6	2	2	33	28
00BHM-S045	407944	6635338	8	2	4	136	46
00BHM-S046	407960	6635386	6	2	3	71	34
00BHM-S047	407977	6635429	6	2	3	103	33
00BHM-S048	407986	6635479	6	2	1	61	30
00BHM-S049	407981	6635526	3	2	2	29	19
00BHM-S050	407970	6635560	8	5	8	144	39
00BHM-S051	407963	6635607	8	2	7	144	41
00BHM-S052	407959	6635648	8	2	7	127	37
00BHM-S053	407956	6635696	7	2	8	132	40
00BHM-S054	407952	6635748	7	2	12	179	35
00BHM-S055	407944	6635799	7	6	7	196	25
00BHM-S056	407942	6635848	5	2	4	59	91
00BHM-S057	407939	6635897	5	2	2	102	39
00BHM-S058	407932	6635950	8	2	2	123	29
00BHM-S059	402786	6641232	3	2	2	53	32
00BHM-S060	402828	6641267	3	2	2	47	25
00BHM-S061	402873	6641291	16	2	4	131	56
00BHM-S062	402922	6641313	4	2	3	87	82
00BHM-S063	402964	6641341	4	2	2	42	31
00BHM-S064	403004	6641367	3	2	1	27	26
00BHM-S065	403047	6641399	4	2	2	36	27
00BHM-S066	403081	6641442	7	2	4	98	55
00BHM-S067	403114	6641488	5	2	1	47	26
00BHM-S068	403148	6641528	3	2	1	33	27
00BHM-S069	403188	6641532	2	2	1	18	41
00BHM-S070	403240	6641529	8	2	4	81	49
00BHM-S071	403302	6641542	5	2	1	54	41
00BHM-S072	403345	6641566	4	2	2	54	44
00BHM-S073	403391	6641593	5	2	1	40	33
00BHM-S075	403477	6641641	5	2	1	46	36
00BHM-S076	403519	6641664	8	2	2	71	34
00BHM-S077	406069	6637779	4	2	2	47	34
00BHM-S078	406084	6637759	5	2	4	142	34
00BHM-S079	406039	6637819	3	2	1	18	25
00BHM-S080	406024	6637840	3	2	1	29	25
00BHM-S081	406049	6637764	6	2	3	56	36

Mansfield Property - Soil Sampling August 2000

Sample No.	UTMX	UTMY	Au ppb	Pt ppb	Pd ppb	Cu ppm	Ni ppm
00ATM-S025	401243	6642846	2	2	2	42	53
00ATM-S026	401222	6642830	3	2	2	46	61
00ATM-S027	401205	6642815	5	2	1	37	33
00ATM-S028	401186	6642800	3	2	1	27	68
00ATM-S029	401166	6642784	2	2	1	29	35
00ATM-S030	401148	6642767	3	2	2	39	47
00ATM-S031	401107	6642734	2	2	1	31	29
00ATM-S032	401087	6642717	3	5	5	90	81
00ATM-S033	401023	6643493	2	2	2	33	40
00ATM-S034	401017	6643489	2	2	2	37	43
00ATM-S035	401012	6643485	2	2	2	40	35
00ATM-S036	406032	6637786	4	2	3	63	64
00ATM-S037	406034	6637784	4	7	4	105	95
00ATM-S038	406035	6637782	91	5	5	120	82
00LTM-S001	401236	6643307	4	2	1	89	41
00LTM-S002	401234	6643304	2	2	1	111	55
00LTM-S003	401231	6643302	2	2	1	119	83
00LTM-S004	401228	6643298	11	2	1	112	89
00BHM-S001	405489	6638266	5	2	9	131	108
00BHM-S002	405542	6638284	5	2	3	54	28
00BHM-S003	405582	6638310	8	9	11	186	86
00BHM-S004	405605	6638350	10	2	5	82	45
00BHM-S005	405617	6638398	11	2	5	133	49
00BHM-S006	405625	6638451	5	2	4	91	34
00BHM-S007	405627	6638502	18	8	16	239	52
00BHM-S008	405629	6638551	16	8	14	222	97
00BHM-S009	405630	6638601	5	2	5	85	41
00BHM-S010	405634	6638654	6	2	4	68	41
00BHM-S011	405641	6638706	5	2	7	91	66
00BHM-S012	405641	6638756	4	2	5	111	47
00BHM-S013	405625	6638807	5	2	4	90	36
00BHM-S014	405594	6638849	5	2	5	93	51
00BHM-S015	405565	6638890	8	9	8	138	167
00BHM-S016	405536	6638932	9	6	5	224	72
00BHM-S017	405516	6638978	18	2	5	96	49
00BHM-S018	405525	6639031	18	2	4	95	47
00BHM-S019	405561	6639070	15	2	4	77	57
00BHM-S020	405599	6639106	9	2	4	70	38
00BHM-S021	405638	6639141	8	5	6	119	39
00BHM-S022	404733	6639820	3	2	3	160	57
00BHM-S023	404692	6639792	4	2	2	45	86
00BHM-S024	404652	6639762	5	2	2	40	38
00BHM-S025	404611	6639734	3	2	1	18	47
00BHM-S026	404571	6639706	4	2	2	43	39
00BHM-S027	404528	6639677	16	2	2	60	25
00BHM-S028	404498	6639655	3	2	4	61	54
00BHM-S029	404454	6639625	5	2	2	47	62
00BHM-S030	404421	6639599	9	2	3	184	82
00BHM-S031	404384	6639572	4	2	3	118	51

Mansfield Property - Soil Sampling August 2000

Sample No.	UTMX	UTMY	Au ppb	Pt ppb	Pd ppb	Cu ppm	Ni ppm
1000S-450E	401143	6643576	1	2	1	24	84
1000S-475E	401160	6643588	1	2	1	16	48
1000S-500E	401181	6643603	5	2	1	26	43
1100S-200E	401006	6643344	4	2	2	42	57
1100S-225E	401026	6643359	3	2	2	38	65
1100S-250E	401045	6643374	4	2	2	35	65
1100S-275E	401070	6643393	2	2	1	44	65
1100S-300E	401089	6643405	2	2	1	57	53
1100S-325E	401105	6643417	2	2	1	32	70
1100S-350E	401126	6643432	2	2	1	36	75
1100S-375E	401148	6643449	2	2	1	29	79
1100S-400E	401166	6643463	7	2	1	30	68
1100S-425E	401186	6643477	7	2	1	15	41
1100S-450E	401206	6643491	2	2	2	40	51
1100S-475E	401227	6643508	2	2	1	32	60
1100S-500E	401245	6643522	2	2	1	21	64
1200S-200E	401057	6643264	2	2	1	23	55
1200S-225E	401077	6643279	2	2	1	41	68
1200S-250E	401097	6643294	2	2	1	27	59
1200S-275E	401117	6643308	2	2	1	34	57
1200S-300E	401137	6643324	2	2	1	35	45
1200S-325E	401159	6643340	2	2	1	68	62
1200S-350E	401179	6643355	3	2	1	79	74
1200S-375E	401195	6643368	3	2	1	69	48
1200S-400E	401215	6643380	2	2	1	26	43
1200S-425E	401234	6643395	1	2	1	28	43
1200S-450E	401253	6643409	2	2	1	30	40
1200S-475E	401274	6643425	3	2	1	27	42
1200S-500E	401298	6643441	1	2	1	14	33
00ATM-S003	405675	6638869	3	10	11	113	83
00ATM-S004	405933	6638448	3	7	7	85	205
00ATM-S005	406425	6637435	9	5	11	166	187
00ATM-S006	406182	6637462	10	2	5	163	45
00ATM-S007	406117	6637462	11	2	5	123	69
00ATM-S008	405988	6637472	5	2	7	104	123
00ATM-S009	405952	6637480	5	17	16	83	1911
00ATM-S010	405597	6638274	7	5	7	108	64
00ATM-S011	405696	6638371	4	5	5	202	29
00ATM-S012	405653	6638624	2	2	3	86	19
00ATM-S015	408466	6635205	5	2	11	162	42
00ATM-S016	408449	6635154	4	2	5	152	34
00ATM-S017	408412	6635111	54	6	10	209	61
00ATM-S018	407808	6634953	3	2	1	0.5	71
00ATM-S019	407767	6634927	3	2	8	129	58
00ATM-S020	407748	6634912	3	2	2	38	32
00ATM-S021	401405	6643178	2	2	1	135	444
00ATM-S022	401402	6643174	4	2	1	110	337
00ATM-S023	401281	6642876	4	2	1	64	210
00ATM-S024	401266	6642860	3	5	3	45	62

Mansfield Property - Soil Sampling August 2000

Sample No.	UTMX	UTMY	Au ppb	Pt ppb	Pd ppb	Cu ppm	Ni ppm
1600S-075W	406751	6636959	4	2	1	36	36
1600S-100W	406729	6636943	5	2	1	36	25
1600S-125W	406710	6636926	11	2	2	41	36
1600S-150W	406688	6636909	12	2	2	63	31
1600S-200W	406651	6636881	4	2	2	60	47
1600S-225W	406632	6636867	8	2	1	54	41
1600S-250W	406614	6636850	6	2	1	52	40
1600S-275W	406593	6636837	3	2	1	23	32
1600S-300W	406573	6636820	7	2	3	55	47
1600S-325W	406555	6636805	3	2	3	37	53
1600S-350W	406532	6636788	3	2	2	45	65
1600S-400W	406493	6636758	4	2	1	45	107
1600S-425W	406471	6636744	3	2	2	38	51
1600S-450W	406450	6636729	7	9	12	86	348
1600S-475W	406426	6636707	6	2	3	29	174
1600S-025E	406829	6637019	2	2	2	59	31
1600S-050E	406846	6637035	3	2	2	36	30
1600S-100E	406885	6637065	2	2	2	49	26
900S-200E	400887	6643508	2	2	1	28	41
900S-225E	400906	6643523	2	2	1	37	42
900S-250E	400927	6643537	3	2	1	39	40
900S-275E	400946	6643552	2	2	1	29	42
900S-300E	400967	6643567	3	2	1	30	52
900S-325E	400988	6643583	2	2	1	31	31
900S-350E	401006	6643598	2	2	1	21	46
900S-375E	401027	6643613	2	2	1	49	44
900S-400E	401047	6643629	2	2	1	38	46
900S-425E	401068	6643643	2	2	1	28	47
900S-450E	401087	6643657	4	2	1	30	43
900S-475E	401107	6643672	3	2	1	13	41
900S-500E	401126	6643686	2	2	1	14	53
1000S-000E	400774	6643303	4	2	2	30	28
1000S-025E	400795	6643318	3	2	1	23	39
1000S-050E	400817	6643334	4	2	1	23	41
1000S-075E	400837	6643349	2	2	2	35	45
1000S-100E	400857	6643365	2	2	1	24	33
1000S-125E	400877	6643380	3	2	1	30	40
1000S-150E	400898	6643393	3	2	1	32	32
1000S-175E	400918	6643409	5	2	2	37	64
1000S-200E	400941	6643425	2	2	1	32	41
1000S-225E	400960	6643439	2	2	2	30	47
1000S-250E	400980	6643454	1	2	1	27	64
1000S-275E	401000	6643470	11	2	1	2	52
1000S-300E	401020	6643483	3	2	2	34	59
1000S-325E	401042	6643500	3	2	2	28	65
1000S-350E	401062	6643515	2	2	1	39	58
1000S-375E	401081	6643530	3	2	1	38	66
1000S-400E	401101	6643544	2	2	1	30	60
1000S-425E	401121	6643558	3	2	1	29	59

Mansfield Property - Soil Sampling August 2000

Sample No.	UTMX	UTMY	Au ppb	Pt ppb	Pd ppb	Cu ppm	Ni ppm
100S-000W	405906	6638214	3	7	4	57	129
100S-025W	405886	6638194	4	2	1	87	46
100S-050W	405867	6638179	2	2	2	111	37
100S-075W	405846	6638162	4	2	2	102	40
100S-100W	405827	6638149	4	5	2	97	40
100S-125W	405807	6638133	20	2	2	73	37
100S-150W	405787	6638117	3	2	4	81	30
100S-175W	405769	6638102	3	2	2	72	37
100S-200W	405749	6638089	4	2	2	88	37
100S-225W	405730	6638074	8	7	19	97	55
100S-250W	405707	6638057	8	2	6	88	45
100S-300W	405670	6638028	10	2	5	57	38
100S-325W	405650	6638011	8	2	2	46	44
100S-350W	405630	6637996	3	2	3	95	60
200S-000W	405963	6638137	3	2	2	100	63
200S-025W	405946	6638122	3	2	2	96	29
200S-050W	405924	6638104	3	2	3	81	42
200S-075W	405904	6638087	5	2	2	27	27
200S-100W	405884	6638071	5	2	3	62	42
200S-125W	405865	6638056	10	2	4	99	40
200S-150W	405846	6638041	5	2	3	91	34
200S-175W	405826	6638026	5	2	3	128	45
200S-200W	405808	6638011	6	2	2	83	34
200S-225W	405791	6637996	4	2	5	53	38
200S-250W	405769	6637982	3	2	3	59	46
200S-275W	405751	6637966	4	2	2	44	50
200S-300W	405729	6637950	3	2	2	63	78
200S-325W	405708	6637934	9	2	2	42	49
200S-350W	405689	6637919	6	2	2	50	48
300S-000W	406025	6638055	4	2	2	38	27
300S-025W	406005	6638038	4	2	2	28	27
300S-050W	405986	6638021	11	2	1	30	23
300S-075W	405969	6638006	3	2	2	21	83
300S-100W	405947	6637990	3	2	1	24	27
300S-125W	405927	6637974	13	2	1	25	24
300S-150W	405906	6637959	3	2	1	74	55
300S-175W	405888	6637944	39	2	2	57	37
300S-200W	405869	6637927	3	2	1	55	36
300S-225W	405850	6637915	4	2	2	64	69
300S-250W	405830	6637898	4	2	3	43	57
300S-275W	405810	6637880	4	2	2	46	55
300S-300W	405791	6637867	4	2	3	45	70
300S-325W	405770	6637851	3	2	2	49	76
300S-350W	405749	6637836	3	2	4	68	344
300S-375W	405728	6637820	3	2	2	32	78
300S-400W	405711	6637805	4	2	2	57	62
1600S-000W	406808	6637003	4	2	2	61	56
1600S-025W	406788	6636988	5	2	1	40	41
1600S-050W	406770	6636974	4	2	2	46	45

Mansfield Property - Silt Sampling 2000

Sample No.	UTMX	UTMY	Au ppb	Pt ppb	Pd ppb	Cu ppm	Ni ppm
00ATM-L001	403758	6640002	40	6	5	123	42
131951	407551	6634902	8	< 5	< 2	73	83
131952	405446	6638212	6	< 5	2	80	29
131953	400189	6644155	10	< 5	2	84	42

Appendix V

2000 Rock Sample Descriptions

Mansfield Property - 2000 Field Program Rock Descriptions

Sample #	UTM x	UTM y	Rock Type	Descriptions
126801	406785	6636959	Gabbro	carbonate altered, lt. Green crystal tuff ?, sheared, carb veined
126802	405762	6638437	Gabbro	rusty, weathered, felted alt'n, trace fine pyrite, carb altered
126803	405717	6636253	Qtz-Carb	aphanitic light green, strong orange brown Fe carb, minor veinlets
126804	405715	6638271	Gabbro	altered, rusty, pyroxenes, weathered, serpentinite, chlorite
126805	405893	6638006	Gabbro	pyroxene porphyry, green - grey, weathers grey-rusty, weak carb
126806	406379	6637722	Siltstone	dark grey, extremely weathered, rusty
126807	405564	6638337	Volcanic	carbonate altered, rusty, gossanous patches
126808	405583	6638430	Sediment ?	2 m x 2m pod of gossan, silicified, Fe carb, precipitates, fractured
126809	405623	6638594	Mafic Volcanic	strong Fe-carb, feldspar phyrlic, rusty weathered
126810	407975	6635513	Gabbro	Fe carb pervasively altered
126811	407966	6635599	Gabbro	medium grained, rusty, 1% sulphides, wk carb altered and films
126812	407948	6635800	Gabbro	1% sulphides, rusty, carb films
126813	401227	6643307	Qtz-Carb	Fe carb, 2% diss sulphides, bottom of test pit
126814	401203	6642808	Limestone	carb veinlets, fetid, yellow stained
126815	400984	6642823	Limestone	carb veinlets, fetid, yellow stained
126817	401087	6642778	Limestone	carb veinlets, fetid, yellow stained
126818	405482	6638208	Ultramafic	black, sheared, phyllite, magnetitic, serpentized
126819	405476	6638197	Qtz-Carb	altered volcanics, west side of 126818, sheared, gossanous
126951	400617	6644040	Qtz-Carb	black, gey pod in Fe carb zone Stanley Creek
126952	405960	6637725	Metased	biotitic band in layered sediment
126953	405906	6637673	Biotite schist	angular, flat, biotitic unit, float
126954	405583	6638011	Mafic Volcanic	rusty shera in chloritized mafic volcanics, Kwatini Creek
126955	405484	6638152	Mafic Volcanic	fault zone, Fe carb gossan
126956	406692	6636576	Peridotite	Trench 2, minor rusty patches, sulphides ?
126957	406696	6636580	Peridotite	trace malachite, minor goss. Fractures
126958	406977	6636164	Volcanic	gossanous, below peridotite, tr-5% pyrite and pyrrhotite, Trench 6
126959	407280	6635683	Gabbro	marginal, Trench 3, minor Fe, olivine, pyroxene
126960	403118	6640717	Gabbro	gossan, fault, brx, carb cemented, feld. Porphyritic
126961	406713	6636555	Gabbro	gossanous, below Trench 2
126962	405983	6637502	Argillite	gossanous, trace sulphides ?, carb veined

Mansfield Property - 2000 Field Program Rock Descriptions

Sample #	UTM x	UTM y	Rock Type	Descriptions
126963	405531	6638245	Gabbro	gossanous near contact with volcanics
126964	405671	6638622	Sediment	7 m shear in seds near contact with gabbro
126965	405664	6638682	Hematite-Qtz	jasperoidal hematite and quartz, carbonate veined float
126966	406035	6637785	Qtz-Carb	bottom of test pit, highly carb gabro ? or mafic volc. ?
126967	406029	6637796	Mafic Volcanic	trace chalcopryrite, pyrite, margins of qtz-carb veined
126968	406017	6637810	Mafic Volcanic	carb veined, no sulphides noted
126969	406977	6635947	Mafic Volcanic	possible altered ultramafic, sheared

Appendix VI

2000 Chemex and Cominco Assay Certificates

SANTOY RESOURCES-X00

Job V000606R

MANSFIE Date 3 OCT 2000

LAB NO	FIELD NU	Au(3) g/t	Pt(1) g/t	Pt oz/t	Pd(1) g/t	Pd oz/t
R0011163	126801	0.237	0.089	0.003	<0.034	<0.001
R0011164	126802	0.067	<0.069	<0.002	<0.034	<0.001
R0011165	126803	<0.034	<0.069	<0.002	<0.034	<0.001
R0011166	126804	<0.034	0.08	0.002	<0.034	<0.001
R0011167	126805	<0.034	<0.069	<0.002	<0.034	<0.001
R0011168	126806	<0.034	<0.069	<0.002	<0.034	<0.001
R0011169	126807	<0.034	<0.069	<0.002	<0.034	<0.001
R0011170	126808	0.056	0.11	0.003	<0.034	<0.001
R0011171	126809	<0.034	0.069	0.002	<0.034	<0.001
R0011172	126810	<0.034	0.099	0.003	<0.034	<0.001
R0011173	126811	0.084	<0.069	<0.002	<0.034	<0.001
R0011174	126812	<0.034	<0.069	<0.002	<0.034	<0.001
R0011175	126813	<0.034	<0.069	<0.002	<0.034	<0.001
R0011176	126814	<0.034	<0.069	<0.002	<0.034	<0.001
R0011177	126815	<0.034	<0.069	<0.002	<0.034	<0.001
R0011178	126817	<0.034	<0.069	<0.002	<0.034	<0.001
R0011179	126818	<0.034	<0.069	<0.002	<0.034	<0.001
R0011180	126819	<0.034	<0.064	<0.002	<0.034	<0.001
R0011181	126961	<0.034	<0.069	<0.002	<0.034	<0.001
R0011182	126962	<0.034	<0.069	<0.002	<0.034	<0.001
R0011183	126963	0.065	<0.069	<0.002	<0.034	<0.001
R0011184	126964	0.034	<0.069	<0.002	<0.034	<0.001
R0011185	126965	0.254	<0.069	<0.002	<0.034	<0.001
R0011186	126966	<0.034	<0.069	<0.002	<0.034	<0.001
R0011187	126967	<0.034	<0.069	<0.002	<0.034	<0.001
R0011188	126968	<0.034	<0.069	<0.002	<0.034	<0.001
R0011189	126969	<0.034	<0.069	<0.002	<0.034	<0.001

**GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT**

26,556

003/004

BANTOX RESOURCES-X00

Job V 00-0606R

MANSFIELD/SHIF#2

Report date 3 OCT 2000

COMINCO E.R. LAB -> Nicols

6048442686

15:22

10/03/00

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Sr ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %	P ppm
R0011163	126801	69	<4	52	<.4	B3846	50	20	23	41	3.72	<2	149	<5	<5	04	<2	3	47	4	20	596	2.47	.16	2.87	3.54	.05	.03	689
R0011164	126802	108	<4	72	<.4	11	26	<1	30	20	5.25	<2	49	<5	<5	112	<2	7	77	7	30	923	1.64	.33	4.08	5.67	.05	.01	950
R0011165	126803	95	9	54	1.8	11	68	<1	22	26	5.06	<2	77	<5	<5	148	<2	<2	25	8	16	925	2.34	<.01	2.08	1.36	.06	.09	561
R0011166	126804	38	<4	43	<.4	3	13	<1	44	255	4.37	<2	195	<5	<5	69	<2	<2	11	6	9	545	4.84	.13	3.62	.57	.03	.01	552
R0011167	126805	73	<4	33	<.4	<2	9	<1	20	26	2.81	<2	63	<5	<5	67	<2	3	69	5	21	449	1.02	.22	2.19	2.45	.04	.01	907
R0011168	126806	59	8	69	5.9	5	336	<1	9	18	3.34	<2	34	5	<5	47	<2	<2	18	11	17	1564	.08	<.01	.69	.16	.06	.17	402
R0011169	126807	160	<4	54	<.4	5	7	<1	21	46	5.71	<2	132	<5	<5	118	<2	2	54	7	16	405	1.32	.31	2.94	1.59	.06	.02	1224
R0011170	126808	34	13	27	<.4	27	17	<1	4	5	3.11	2	137	7	5	118	<2	<2	15	2	15	78	.11	.23	.37	.37	.12	.06	905
R0011171	126809	52	<4	57	<.4	<2	64	<1	41	171	6.22	<2	378	<5	<5	170	<2	2	257	9	25	1217	5.83	<.01	.86	9.43	.05	.07	117
R0011172	126810	101	<4	61	<.4	<2	41	<1	28	33	5.3	<2	57	<5	<5	104	<2	3	68	7	24	971	2.57	.18	3.4	2.86	.06	.05	964
R0011173	126811	119	<4	61	4.2	<2	20	<1	30	23	5.72	<2	59	<5	<5	137	<2	2	76	10	24	935	2.49	.32	3.46	2.33	.06	.03	996
R0011174	126812	134	<4	74	<.4	<2	10	<1	29	20	6.54	<2	39	<5	<5	160	<2	<2	34	15	18	1010	3.41	.31	3.52	1.13	.07	.03	1721
R0011175	126813	64	<4	80	<.4	23	34	<1	42	59	8.04	<2	179	7	<5	240	<2	<2	36	26	34	1414	1.92	<.01	1.08	5.9	.06	.01	506
R0011176	126814	4	<4	5	<.4	<2	67	<1	<1	2	.19	<2	8	<5	<5	12	<2	7	275	3	32	112	.09	<.01	.08E30.57	.03	.01	67	
R0011177	126815	<1	<4	17	<.4	<2	39	<1	<1	1	.17	<2	10	<5	<5	6	<2	4	236	<2	35	171	.04	<.01	.07E26.77	.03	<.01	76	
R0011178	126817	<1	<4	5	<.4	<2	28	<1	<1	4	.32	<2	5	<5	<5	11	<2	10	265	2	29	167	.07	<.01	.05E30.28	.03	.02	96	
R0011179	126818	81	<4	54	<.4	15	41	<1	134	2513	9.63	<2	568	12	<5	14	<2	<2	8	2	3	957E19.29	.04	.62	.24	.02	<.01	49	
R0011180	126819	55	<4	46	<.4	4	57	<1	10	57	2.62	2	57	<5	<5	78	<2	2	13	10	18	126	.31	.27	.48	.8	.14	.04	975
R0011181	126961	167	<4	57	<.4	<2	13	<1	92	1523	6.79	<2	299	10	<5	12	<2	<2	16	<2	6	872E13.94	.02	1.14	.48	.04	.02	30	
R0011182	126962	59	31	77	<.4	<2	26	<1	11	26	2.9	<2	123	<5	<5	70	<2	2	25	9	15	253	.62	.15	1.29	.55	.05	.22	765
R0011183	126963	72	<4	30	<.4	<2	25	<1	13	10	4.32	<2	89	<5	<5	134	<2	<2	69	6	16	403	1.31	.27	2.1	1.37	.07	.05	812
R0011184	126964	21	<4	34	<.4	7	65	<1	3	1	5.19	<2	32	<5	<5	103	<2	2	8	7	15	499	1.37	<.01	2.19	.14	.05	.19	1807
R0011185	126965	8	<4	4	<.4	<2	118	<1	1	4	1.91	<2	172	<5	<5	13	<2	6	21	<2	19	130	.06	<.01	.11	2.98	.03	<.01	10
R0011186	126966	85	<4	64	<.4	<2	72	<1	30	85	4.72	<2	229	<5	<5	139	<2	<2	20	12	21	640	2.05	.34	3.34	1.99	.06	.11	465
R0011187	126967	134	<4	50	<.4	11	25	<1	24	20	3.81	<2	105	<5	<5	90	<2	2	69	5	14	586	1.49	.23	2.47	1.64	.05	.03	1314
R0011188	126968	40	<4	25	<.4	<2	6	<1	12	45	2.19	<2	138	<5	<5	51	<2	5	2	5	38	286	1.05	.1	1.51E14.64	.03	.04	159	
R0011189	126969	61	<4	258	<.4	<2	63	<1	34	38	6.29	<2	57	<5	<5	263	<2	<2	22	23	26	1235	2.11	.72	4.06	3.73	.05	.01	617

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

ANALYTICAL METHODS

ICP PACKAGE :0.5 gram sample digested in hot reverse aqua regia (soil,silt) or hot Aqua Regia(rocks).

SANTOY RESOURCES-X00

MANSFIELD/SHIP #1

Job V 00-0538R

Report date 13 SEP 2000

RECEIVED

OCT 2 2000

Ans'd

LAB NO	FIELD NUMBER	Au(3) g/t	Pt(1) g/t	Pd(1) g/t
R0009612	126951	<0.034	<0.069	<0.034
R0009613	126952	<0.034	<0.069	<0.034
R0009614	126953	<0.034	<0.069	<0.034
R0009615	126954	<0.034	<0.069	<0.034
R0009616	126955	<0.034	<0.069	<0.034
R0009617	126956	<0.034	<0.069	<0.034
R0009618	126957	<0.034	<0.069	<0.034
R0009619	126958	<0.034	<0.069	<0.034
R0009620	126959	<0.034	<0.069	<0.034
R0009621	126960	<0.034	<0.069	<0.034

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

ANALYTICAL METHODS

Au(3) Fire Assay, Lead Collection / AA Finish (low level) 1/2 A.T.
Pt(1) Fire Assay, Lead Collection / AA Finish (trace level) 20 or 30 grams
Pd(1) Fire Assay, Lead Collection / AA Finish (trace level) 20 or 30 grams

LAB NO	FIELD NUMBER	Cu	Pb	Zn	Ag	As	Ba	Cd	Co	Ni	Fe	Mo	Cr	Bi	Sb	V	Sn	W	Sr	Y	La	Mn	Mg	Ti	Al	Ca	Na	K	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm
R0009612	126951	29	<4	64	<.4	464	49	1	9	26	1.85	<2	100	<5	8	51	<2	3	254	4	17	361	1.68	<.01	.19	3.45	.02	.05	305
R0009613	126952	6	<4	11	<.4	7	63	<1	1	19	.24	<2	27	<5	10	6	<2	4	694	14	21	684	.05	.03	5.19	5.09	.12	.01	2972
R0009614	126953	49	<4	65	<.4	<2	536	<1	20	125	4	<2	201	<5	8	148	<2	<2	8	3	3	291	1.67	.27	3.28	.2	.09	1.57	697
R0009615	126954	4331	<4	37	<.4	18	6	<1	651	66E12.27	<2	40	24	6	4	<2	<2	9	<2	12	137	.29	.01	.91	1.63	.05	.03	42	
R0009616	126955	138	<4	33	<.4	<2	9	<1	8	2	4.51	<2	45	<5	6	141	<2	3	8	8	9	441	1.23	.16	1.67	.73	.06	.03	1089
R0009617	126956	50	<4	39	.6	<2	11	<1	104	1780	7.06	<2	265	<5	<5	<2	2	<2	5	<2	<2	809E16.72	.02	.85	.1	.02	.01	51	
R0009618	126957	87	<4	41	<.4	<2	<5	<1	98	1627	6.63	<2	154	<5	5	<2	4	<2	5	<2	<2	867E16.1	.01	1.07	.28	.02	.01	31	
R0009619	126958	58	<4	65	<.4	3	6	<1	37	74	6.41	<2	62	<5	12	177	<2	5	17	14	7	500	2.61	.6	3.01	1.31	.03	.02	699
R0009620	126959	104	<4	49	<.4	<2	32	<1	26	19	3.63	<2	18	<5	<5	26	<2	3	23	2	9	762	1.8	.11	2.01	1.08	.02	.01	952
R0009621	126960	81	<4	48	<.4	<2	6	<1	20	23	4.46	<2	54	<5	5	125	<2	5	34	6	22	906	2.01	.1	3.34	5.22	.13	.02	685

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised

If requested analyses are not shown ,results are to follow

ANALYTICAL METHODS

ICP PACKAGE :0.5 gram sample digested in hot reverse aqua regia (soil,silt) or hot Aqua Regia(rocks).



Chemex Labs Ltd.

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

To: SANTOY RESOURCES LTD.

1300 - 409 GRANVILLE ST.
 VANCOUVER, BC
 V6C 1T2

Project: SANTOY BC
 Comments: ATTN: RON NICHOLS CC: ADAM TRAVIS

Page Number : 1-A
 Total Pages : 1
 Certificate Date: 29-MAR-00
 Invoice No. : 10014904
 P.O. Number :
 Account : RQM

CERTIFICATE OF ANALYSIS A0014904

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %
131951	216/202	8	< 5	< 2	0.2	2.26	36	< 10	490	< 0.5	< 2	1.09	0.5	25	109	73	4.43	< 10	< 1	0.48
131952	230/202	6	< 5	2	0.2	1.94	32	< 10	150	< 0.5	< 2	1.21	< 0.5	25	40	80	4.29	< 10	< 1	0.13
131953	216/202	10	< 5	2	0.2	1.88	52	< 10	160	< 0.5	< 2	0.63	1.5	21	47	84	3.71	< 10	< 1	0.20
131954	230/202	4	< 5	< 2	< 0.2	1.14	12	< 10	110	< 0.5	< 2	0.67	< 0.5	12	56	29	2.03	< 10	< 1	0.16
131955	230/202	4	< 5	< 2	0.2	1.19	12	< 10	100	< 0.5	< 2	0.57	< 0.5	10	44	33	1.84	< 10	< 1	0.21
131955	216/202	14	< 5	1	< 0.2	1.57	< 2	< 10	70	< 0.5	< 2	0.36	< 0.5	12	36	24	2.31	< 10	< 1	0.10
131957	230/202	4	< 5	2	< 0.2	1.71	2	< 10	150	< 0.5	< 2	0.35	< 0.5	28	153	65	4.00	< 10	< 1	0.18

Unay. 2
 - Gink Muscot
 Muscot

03/30/99 11:42AM CHEMEX LABS VAX-FAX2

PAGE 002

CERTIFICATION:



Chemex Labs Ltd.

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

To: SANTOY RESOURCES LTD.

1300 - 409 GRANVILLE ST.
 VANCOUVER, BC
 V6C 1T2

Project: SANTOY BC
 Comments: ATTN: RON NICHOLS CC: ADAM TRAVIS

Page Number : 1-B
 Total Pages : 1
 Certificate Date: 29-MAR-00
 Invoice No. : 10014904
 P.O. Number :
 Account : RQM

CERTIFICATE OF ANALYSIS A0014904

SAMPLE	PREP CODE	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
131951	216 202	< 10	1.62	810	4	0.04	83	1090	8	0.38	< 2	10	57	0.12	< 10	< 10	107	< 10	118
131952	230 202	10	1.23	720	4	0.03	29	1320	8	0.18	< 2	7	47	0.10	< 10	< 10	88	< 10	92
131953	216 202	10	1.08	1025	3	0.02	42	930	8	0.22	< 2	5	32	0.10	< 10	< 10	69	< 10	160
131954	230 202	10	1.10	305	3	0.01	72	1720	6	0.07	< 2	5	23	0.06	< 10	< 10	45	< 10	44
131955	230 202	< 10	0.73	235	3	0.02	39	1340	14	0.08	< 2	4	22	0.07	< 10	< 10	50	< 10	40
131956	216 202	< 10	0.78	920	1	0.01	110	650	5	0.01	< 2	4	21	0.10	< 10	< 10	60	< 10	74
131957	230 202	10	1.40	5610	1	0.01	316	770	8	0.03	< 2	7	22	0.07	< 10	< 10	66	< 10	78

CERTIFICATION: _____

MANSFIELD/SHIP #2

Report date 17 NOV 2000

LAB NO	FIELD NUMBER	Au ppb	Pt ppb	Pd ppb
S0004763	00W L100	3	7	4
S0004764	25W L100	4	<5	<2
S0004765	50W L100	2	<5	2
S0004766	75W L100	4	<5	2
S0004767	100W L100	4	5	2
S0004768	125W L100	20	<5	2
S0004769	150W L100	3	<5	4
S0004770	175W L100	3	<5	2
S0004771	200W L100	4	<5	2
S0004772	225W L100	8	7	19
S0004773	250W L100	8	<5	6
S0004774	300W L100	10	<5	5
S0004775	325W L100	8	<5	2
S0004776	350W L100	3	<5	3
S0004777	00W L200	3	<5	2
S0004778	25W L200	3	<5	2
S0004779	50W L200	3	<5	3
S0004780	75W L200	5	<5	2
S0004781	100W L200	5	<5	3
S0004782	125W L200	10	<5	4
S0004783	150W L200	5	<5	3
S0004784	175W L200	5	<5	3
S0004785	200W L200	6	<5	2
S0004786	225W L200	4	<5	5
S0004787	250W L200	3	<5	3
S0004788	275W L200	4	<5	2
S0004789	300W L200	3	<5	2
S0004790	325W L200	9	<5	2
S0004791	350W L200	6	<5	2
S0004792	00W L300	4	<5	2
S0004793	25W L300	4	<5	2
S0004794	50W L300	11	<5	<2
S0004795	75W L300	3	<5	2
S0004796	100W L300	3	<5	<2
S0004797	125W L300	13	<5	<2
S0004798	150W L300	3	<5	<2
S0004799	175W L300	39	<5	2
S0004800	200W L300	3	<5	<2
S0004801	225W L300	4	<5	2
S0004802	250W L300	4	<5	3
S0004803	275W L300	4	<5	2
S0004804	300W L300	4	<5	3
S0004805	325W L300	3	<5	2
S0004806	350W L300	3	<5	4
S0004807	375W L300	3	<5	2
S0004808	400W L300	4	<5	2
S0004809	00W L16	4	<5	2
S0004810	25W L16	5	<5	<2
S0004811	50W L16	4	<5	2
S0004812	75W L16	4	<5	<2
S0004813	100W L16	5	<5	<2

LAB NO	FIELD NUMBER	Au ppb	Pt ppb	Pd ppb
S0004814	125W L16	11	<5	2
S0004815	150W L16	12	<5	2
S0004816	200W L16	4	<5	2
S0004817	225W L16	8	<5	<2
S0004818	250W L16	6	<5	<2
S0004819	275W L16	3	<5	<2
S0004820	300W L16	7	<5	3
S0004821	325W L16	3	<5	3
S0004822	350W L16	3	<5	2
S0004823	400W L16	4	<5	<2
S0004824	425W L16	3	<5	2
S0004825	450W L16	7	9	12
S0004826	475W L16	6	<5	3
S0004827	25E L16	2	<5	2
S0004828	50E L16	3	<5	2
S0004829	100E L16	2	<5	2
S0004830	200E L9	2	<5	<2
S0004831	225E L9	2	<5	<2
S0004832	250E L9	3	<5	<2
S0004833	275E L9	2	<5	<2
S0004834	300E L9	3	<5	<2
S0004835	325E L9	2	<5	<2
S0004836	350E L9	2	<5	<2
S0004837	375E L9	2	<5	<2
S0004838	400E L9	2	<5	<2
S0004839	425E L9	2	<5	<2
S0004840	450E L9	4	<5	<2
S0004841	475E L9	3	<5	<2
S0004842	500E L9	2	<5	<2
S0004843	00E L10	4	<5	2
S0004844	25E L10	3	<5	<2
S0004845	50E L10	4	<5	<2
S0004846	75E L10	2	<5	2
S0004847	100E L10	2	<5	<2
S0004848	125E L10	3	<5	<2
S0004849	150E L10	3	<5	<2
S0004850	175E L10	5	<5	2
S0004851	200E L10	2	<5	<2
S0004852	225E L10	2	<5	2
S0004853	250E L10	<2	<5	<2
S0004854	275E L10	11	<5	<2
S0004855	300E L10	3	<5	2
S0004856	325E L10	3	<5	2
S0004857	350E L10	2	<5	<2
S0004858	375E L10	3	<5	<2
S0004859	400E L10	2	<5	<2
S0004860	425E L10	3	<5	<2
S0004861	750E L10	<2	<5	<2
S0004862	475E L10	<2	<5	<2
S0004863	500E L10	5	<5	<2
S0004864	200E L11	4	<5	2
S0004865	225E L11	3	<5	2
S0004866	250E L11	4	<5	2
S0004867	275E L11	2	<5	<2

LAB NO	FIELD NUMBER	Au ppb	Pt ppb	Pd ppb
S0004868	300E L11	2	<5	<2
S0004869	325E L11	2	<5	<2
S0004870	350E L11	2	<5	<2
S0004871	375E L11	2	<5	<2
S0004872	400E L11	7	<5	<2
S0004873	425E L11	7	<5	<2
S0004874	750E L11	2	<5	<5
S0004875	475E L11	2	<5	<2
S0004876	500E L11	2	<5	<2
S0004877	200E L12	2	<5	<2
S0004878	225E L12	2	<5	<2
S0004879	250E L12	2	<5	<2
S0004880	275E L12	2	<5	<2
S0004881	300E L12	2	<5	<2
S0004882	325E L12	2	<5	<2
S0004883	350E L12	3	<5	<2
S0004884	375E L12	3	<5	<2
S0004885	400E L12	2	<5	<2
S0004886	425E L12	<2	<5	<2
S0004887	450E L12	2	<5	<2
S0004888	475E L12	3	<5	<2
S0004889	500E L12	<2	<5	<2
S0004890	OOATM S003	3	10	11
S0004891	OOATM S004	3	7	7
S0004892	OOATM S005	9	5	11
S0004893	OOATM S006	10	<5	5
S0004894	OOATM S007	11	<5	5
S0004895	OOATM S008	5	<5	7
S0004896	OOATM S009	5	17	16
S0004897	OOATM S010	7	5	7
S0004898	OOATM S011	4	5	5
S0004899	OOATM S012	2	<5	3
S0004900	OOATM S015	5	<5	11
S0004901	OOATM S016	4	<5	5
S0004902	OOATM S017	54	6	10
S0004903	OOATM S018	3	<5	<2
S0004904	OOATM S019	3	<5	8
S0004905	OOATM S020	3	<5	2
S0004906	OOATM S021	2	<5	<2
S0004907	OOATM S022	4	<5	<2
S0004908	OOATM S023	4	<5	<2
S0004909	OOATM S024	3	5	3
S0004910	OOATM S025	2	<5	2
S0004911	OOATM S026	3	<5	2
S0004912	OOATM S027	5	<5	<2
S0004913	OOATM S028	3	<5	<2
S0004914	OOATM S029	2	<5	<2
S0004915	OOATM S030	3	<5	2
S0004916	OOATM S031	2	<5	<2
S0004917	OOATM S032	3	5	5
S0004918	OOATM S033	2	<5	2
S0004919	OOATM S034	2	<5	2
S0004920	OOATM S035	2	<5	2
S0004921	OOATM S036	4	<5	3

LAB NO	FIELD NUMBER	Au ppb	Pt ppb	Pd ppb
S0004922	OOATM S037	4	7	4
S0004923	OOATM S038	91	5	5
S0004924	OOLTM S001	4	<5	<2
S0004925	OOLTM S002	2	<5	<2
S0004926	OOLTM S003	2	<5	<2
S0004927	OOLTM S004	11	<5	<2
S0004928	BHM1	5	<5	9
S0004929	BHM2	5	<5	3
S0004930	BHM3	8	9	11
S0004931	BHM4	10	<5	5
S0004932	BHM5	11	<5	5
S0004933	BHM6	5	<5	4
S0004934	BHM7	18	8	16
S0004935	BHM8	16	8	14
S0004936	BHM9	5	<5	5
S0004937	BHM10	6	<5	4
S0004938	BHM11	5	<5	7
S0004939	BHM12	4	<5	5
S0004940	BHM13	5	<5	4
S0004941	BHM14	5	<5	5
S0004942	BHM15	8	9	8
S0004943	BHM16	9	6	5
S0004944	BHM17	18	<5	5
S0004945	BHM18	18	<5	4
S0004946	BHM19	15	<5	4
S0004947	BHM20	9	<5	4
S0004948	BHM21	8	5	6
S0004949	BHM22	3	<5	3
S0004950	BHM23	4	<5	2
S0004951	BHM24	5	<5	2
S0004952	BHM25	3	<5	<2
S0004953	BHM26	4	<5	2
S0004954	BHM27	16	<5	2
S0004955	BHM28	3	<5	4
S0004956	BHM29	5	<5	2
S0004957	BHM30	9	<5	3
S0004958	BHM31	4	<5	3
S0004959	BHM32	5	<5	4
S0004960	BHM33	30	<5	3
S0004961	BHM34	7	<5	<2
S0004962	BHM35	39	5	11
S0004963	BHM36	4	<5	3
S0004964	BHM37	5	<5	3
S0004965	BHM38	3	<5	3
S0004966	BHM39	4	<5	2
S0004967	BHM40	5	<5	2
S0004968	BHM41	8	<5	2
S0004969	BHM42	6	<5	3
S0004970	BHM43	6	<5	2
S0004971	BHM44	6	<5	2
S0004972	BHM45	8	<5	4
S0004973	BHM46	6	<5	3
S0004974	BHM47	6	<5	3
S0004975	BHM48	6	<5	<2

LAB NO	FIELD NUMBER	Au ppb	Pt ppb	Pd ppb
S0004976	BHM49	3	<5	2
S0004977	BHM50	8	5	8
S0004978	BHM51	8	<5	7
S0004979	BHM52	8	<5	7
S0004980	BHM53	7	<5	8
S0004981	BHM54	7	<5	12
S0004982	BHM55	7	6	7
S0004983	BHM56	5	<5	4
S0004984	BHM57	5	<5	2
S0004985	BHM58	8	<5	2
S0004986	BHM59	3	<5	2
S0004987	BHM60	3	<5	2
S0004988	BHM61	16	<5	4
S0004989	BHM62	4	<5	3
S0004990	BHM63	4	<5	2
S0004991	BHM64	3	<5	<2
S0004992	BHM65	4	<5	2
S0004993	BHM66	7	<5	4
S0004994	BHM67	5	<5	<2
S0004995	BHM68	3	<5	<2
S0004996	BHM69	2	<5	<2
S0004997	BHM70	8	<5	4
S0004998	BHM71	5	<5	<2
S0004999	BHM72	4	<5	2
S0005000	BHM73	5	<5	<2
S0005001	BHM75	5	<5	<2
S0005002	BHM76	8	<5	2
S0005003	BHM77	4	<5	2
S0005004	BHM78	5	<5	4
S0005005	BHM79	3	<5	<2
S0005006	BHM80	3	<5	<2
S0005007	BHM81	6	<5	3
S0005008	BHM82	3	<5	3
S0005009	BHM83	10	<5	4
S0005010	BHM84	3	<5	2
S0005011	BHM85	5	<5	6
S0005012	BHM87	4	<5	4
S0005013	BHM88	4	<5	3
S0005014	BHM89	3	<5	2
S0005015	BHM90	7	<5	15
S0005016	BHM91	5	<5	17
S0005017	BHM92	10	5	10
S0005018	BHM93	7	18	11
S0005019	BHM94	4	5	6
S0005020	BHM95	7	<5	2

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

ANALYTICAL METHODS

Au Fire Assay, Lead Collection/Graphite Furnace
 Pt Fire Assay, Lead Collection/Graphite Furnace
 Pd Fire Assay, Lead Collection/Graphite Furnace

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %	P ppm
S0004763	00W L100	57	<4	84	<.4	8	99	<1	50	129	8.31	<2	272	<5	6	157	<2	<2	12	6	5	1127	2.87	.05	4.51	.23	.04	.06	427
S0004764	25W L100	87	<4	134	<.4	17	143	<1	28	46	6.4	<2	63	<5	9	125	<2	<2	18	8	6	938	1.28	.09	3.96	.4	.05	.12	757
S0004765	50W L100	111	<4	183	<.4	17	86	<1	29	37	8.14	3	59	<5	5	177	<2	<2	21	8	7	1140	1.44	.17	4.32	.44	.04	.16	1243
S0004766	75W L100	102	<4	144	<.4	20	109	<1	34	40	7.28	<2	78	<5	7	155	<2	<2	21	6	7	3102	1.05	.03	2.63	.31	.04	.1	1250
S0004767	100W L100	97	<4	116	<.4	21	127	<1	26	40	6.81	<2	82	<5	<5	146	<2	<2	21	9	7	1266	1.02	.04	2.9	.36	.05	.07	1098
S0004768	125W L100	73	<4	114	<.4	16	134	<1	23	37	6.09	<2	67	<5	<5	141	<2	<2	20	7	10	1010	1.1	.08	2.61	.42	.05	.12	857
S0004769	150W L100	81	<4	77	<.4	13	56	<1	16	30	4.71	<2	54	<5	<5	111	<2	<2	13	9	9	641	.96	.07	3.05	.3	.04	.07	796
S0004770	175W L100	72	<4	94	<.4	15	89	<1	19	37	5.52	<2	74	<5	<5	121	<2	<2	18	8	12	882	1.15	.07	2.76	.43	.04	.07	908
S0004771	200W L100	88	5	122	<.4	25	105	<1	21	37	6.24	<2	97	<5	<5	150	<2	<2	17	6	6	1136	.83	.03	2.26	.28	.05	.09	1142
S0004772	225W L100	97	<4	109	<.4	12	191	<1	25	55	5.43	<2	182	<5	<5	123	<2	<2	30	71	30	826	1.36	.06	3.88	.75	.05	.11	1180
S0004773	250W L100	88	<4	73	<.4	8	121	<1	22	45	4.88	<2	67	<5	5	110	2	<2	25	15	21	700	1.51	.11	2.44	.82	.05	.11	908
S0004774	300W L100	57	<4	80	<.4	9	155	<1	14	38	3.85	<2	77	<5	<5	102	2	4	26	15	12	336	1.14	.15	3.64	.6	.05	.06	605
S0004775	325W L100	46	<4	94	<.4	26	139	<1	28	44	5.55	<2	97	<5	<5	134	<2	<2	27	7	8	928	1.44	.21	2.67	.49	.05	.21	572
S0004776	350W L100	95	<4	112	<.4	20	96	<1	32	60	4.95	<2	93	<5	<5	118	<2	<2	26	10	10	871	1.35	.09	3.61	.47	.05	.17	1118
S0004777	00W L200	100	<4	128	<.4	22	96	<1	37	63	9.44	<2	169	<5	<5	222	<2	<2	20	7	6	1701	1.64	.04	3.11	.26	.05	.1	1444
S0004778	25W L200	96	<4	114	<.4	14	129	<1	29	29	7.75	<2	40	<5	<5	166	<2	<2	20	9	10	1641	1.34	.03	3.11	.37	.05	.13	1259
S0004779	50W L200	81	<4	88	<.4	13	211	<1	21	42	5.45	<2	65	<5	<5	113	<2	<2	27	12	10	725	1.45	.07	2.83	.86	.05	.08	924
S0004780	75W L200	27	<4	71	<.4	11	173	<1	13	27	4.25	<2	58	<5	7	92	<2	<2	20	6	11	324	1.26	.14	2.6	.47	.05	.06	785
S0004781	100W L200	62	<4	69	<.4	9	75	<1	15	42	4.2	<2	73	<5	<5	85	<2	<2	12	11	8	332	1.02	.09	3.98	.28	.05	.07	1056
S0004782	125W L200	99	<4	90	<.4	19	71	<1	31	40	5.28	<2	68	<5	<5	116	2	<2	12	11	11	899	1.18	.09	3.79	.28	.03	.06	1139
S0004783	150W L200	91	<4	71	<.4	19	53	<1	21	34	5.88	<2	62	<5	<5	141	<2	<2	12	4	7	596	.89	.14	2.67	.23	.04	.05	910
S0004784	175W L200	128	<4	176	<.4	8	90	<1	45	45	8.27	<2	88	<5	<5	207	<2	<2	21	6	10	1303	1.53	.14	3.19	.47	.04	.13	1303
S0004785	200W L200	83	<4	88	<.4	15	69	<1	16	34	5.81	<2	74	<5	<5	142	2	<2	15	6	4	677	.74	.07	2.27	.23	.03	.09	928
S0004786	225W L200	53	<4	89	<.4	11	227	<1	12	38	4.97	<2	99	<5	5	117	2	<2	37	14	14	388	1.24	.06	2.95	.97	.05	.05	1610
S0004787	250W L200	59	<4	77	<.4	9	194	<1	14	46	4.36	<2	87	<5	<5	88	<2	<2	25	11	11	356	1.35	.13	2.46	.57	.05	.06	573
S0004788	275W L200	44	<4	96	<.4	12	143	<1	19	50	5.33	<2	99	<5	<5	117	2	<2	19	8	7	508	1.26	.15	3.79	.38	.04	.09	815
S0004789	300W L200	63	<4	103	<.4	18	108	<1	20	78	6.14	<2	130	<5	<5	122	<2	<2	21	6	13	545	1.74	.12	3.51	.43	.04	.2	2402
S0004790	325W L200	42	<4	80	<.4	13	149	<1	19	49	4.88	2	118	<5	5	116	<2	<2	24	7	7	659	1.24	.17	2.35	.6	.05	.15	676
S0004791	350W L200	50	<4	76	<.4	12	171	<1	22	48	4.47	<2	88	<5	<5	102	2	<2	28	8	19	814	1.32	.12	2.68	.79	.06	.13	718
S0004792	00W L300	38	5	85	<.4	16	270	<1	17	27	4.88	<2	60	<5	<5	105	<2	<2	16	5	9	498	1.19	.22	3.91	.17	.05	.43	669
S0004793	25W L300	28	<4	74	<.4	13	156	<1	14	27	4.85	<2	65	<5	<5	105	2	<2	14	4	6	516	.87	.17	2.92	.15	.05	.21	585
S0004794	50W L300	30	4	65	<.4	14	153	<1	14	23	4.37	<2	47	<5	5	102	<2	<2	16	4	9	443	.79	.15	2.16	.18	.04	.24	782
S0004795	75W L300	21	<4	73	<.4	4	145	<1	17	83	3.67	<2	179	<5	8	85	3	<2	15	6	8	388	1.76	.2	3.2	.28	.05	.05	413

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %	P ppm
S0004796	100W L300	24	<4	73	<.4	8	212	<1	15	27	4.58	<2	57	<5	<5	92	<2	<2	18	9	13	370	1.38	.21	3.17	.33	.05	.13	823
S0004797	125W L300	25	<4	90	<.4	15	146	<1	16	24	4.5	<2	51	<5	<5	137	2	<2	21	3	6	517	1.12	.24	1.96	.38	.05	.25	689
S0004798	150W L300	74	<4	132	<.4	22	141	<1	22	55	6.68	<2	99	<5	<5	166	<2	<2	23	5	7	835	1.01	.07	2.1	.38	.04	.26	952
S0004799	175W L300	57	<4	84	<.4	10	116	<1	20	37	4.42	<2	69	<5	<5	106	2	<2	19	7	11	896	.92	.07	2.75	.39	.05	.14	976
S0004800	200W L300	55	<4	109	<.4	12	123	<1	21	36	5.34	<2	77	<5	<5	122	<2	3	19	7	7	808	1.03	.13	2.96	.41	.04	.17	1046
S0004801	225W L300	64	<4	81	<.4	13	208	<1	17	69	5.13	<2	115	<5	5	106	2	<2	24	19	13	524	1.23	.14	3.68	.39	.06	.1	928
S0004802	250W L300	43	<4	94	<.4	11	153	<1	17	57	5.25	<2	107	<5	<5	116	<2	<2	21	12	14	647	1.22	.09	3.74	.32	.07	.09	944
S0004803	275W L300	46	<4	137	<.4	13	188	<1	28	55	5.13	<2	108	<5	<5	117	<2	<2	26	8	13	1141	1.37	.12	2.93	.46	.06	.1	893
S0004804	300W L300	45	<4	130	<.4	9	150	<1	20	70	4.9	2	122	<5	<5	106	<2	<2	22	10	10	777	1.26	.09	3.24	.4	.06	.12	1039
S0004805	325W L300	49	<4	109	<.4	12	207	<1	19	76	4.74	<2	127	<5	<5	115	<2	4	28	11	10	660	1.38	.09	3.09	.58	.06	.12	1164
S0004806	350W L300	68	<4	75	<.4	8	106	<1	18	344	4.32	<2	139	<5	<5	92	2	<2	21	16	16	475	1.37	.14	2.87	.49	.06	.07	813
S0004807	375W L300	32	<4	153	<.4	6	272	<1	22	78	5	<2	116	<5	<5	109	<2	<2	32	8	12	730	1.65	.19	2.66	.74	.05	.13	699
S0004808	400W L300	57	<4	131	<.4	20	179	<1	24	62	5.02	<2	107	<5	<5	125	2	<2	28	8	9	852	1.36	.14	2.45	.65	.06	.24	995
S0004809	00W L16	61	<4	112	<.4	9	176	<1	18	56	5.01	<2	105	<5	<5	112	2	<2	23	9	16	908	1.35	.08	3.7	.47	.06	.11	1589
S0004810	25W L16	40	<4	64	<.4	6	66	<1	15	41	3.69	<2	75	<5	6	94	<2	<2	12	4	9	852	.73	.11	2.21	.16	.05	.05	645
S0004811	50W L16	46	5	76	<.4	20	101	<1	35	45	4.67	<2	83	<5	<5	104	3	<2	16	6	10	1575	.97	.15	2.83	.21	.05	.07	541
S0004812	75W L16	36	4	55	<.4	8	64	<1	11	36	4.08	<2	77	<5	5	106	<2	<2	17	3	8	328	.87	.16	2.19	.26	.04	.05	499
S0004813	100W L16	36	5	62	<.4	10	107	<1	12	25	4.83	2	50	<5	6	124	<2	<2	16	5	11	481	.66	.15	2.46	.23	.03	.07	433
S0004814	125W L16	41	<4	85	<.4	13	111	<1	17	36	4.92	<2	73	<5	<5	102	<2	<2	18	7	10	652	1.09	.14	3.51	.33	.04	.11	935
S0004815	150W L16	63	<4	87	<.4	13	80	<1	13	31	3.79	<2	64	<5	<5	89	<2	<2	16	8	13	655	.89	.09	3.49	.31	.04	.09	1135
S0004816	200W L16	60	<4	65	.5	10	178	<1	15	47	4.11	<2	90	<5	5	95	<2	<2	16	9	10	375	1.33	.19	3.74	.29	.04	.13	495
S0004817	225W L16	54	<4	65	<.4	12	128	<1	17	41	3.71	<2	67	<5	5	85	<2	<2	17	7	9	494	.98	.14	2.61	.42	.04	.14	887
S0004818	250W L16	52	<4	91	<.4	14	110	<1	17	40	4.39	<2	83	<5	<5	98	<2	<2	17	7	6	801	.95	.08	2.86	.3	.04	.14	975
S0004819	275W L16	23	<4	67	<.4	10	127	<1	12	32	4.06	<2	75	<5	<5	90	<2	<2	17	4	8	479	.97	.13	2.43	.27	.03	.05	410
S0004820	300W L16	55	<4	62	<.4	11	116	<1	12	47	4.05	<2	77	<5	<5	86	<2	<2	16	9	10	370	1.11	.11	2.61	.35	.03	.08	651
S0004821	325W L16	37	<4	83	<.4	12	246	<1	14	53	4.99	<2	128	<5	<5	112	<2	<2	27	11	8	431	1.3	.13	4.23	.44	.04	.1	566
S0004822	350W L16	45	<4	66	<.4	15	242	<1	16	65	3.96	<2	104	<5	<5	93	<2	<2	21	9	9	507	1.36	.17	2.69	.49	.04	.13	714
S0004823	400W L16	45	4	93	<.4	15	103	<1	16	107	5.57	<2	110	<5	<5	112	<2	<2	15	5	6	297	1.08	.21	2.6	.32	.03	.17	726
S0004824	425W L16	38	4	88	<.4	13	188	<1	14	51	5.14	<2	101	<5	5	112	<2	<2	16	7	6	612	1.02	.17	2.72	.31	.04	.25	822
S0004825	450W L16	86	<4	59	.4	3	142	<1	24	348	3.4	<2	106	<5	<5	55	<2	<2	15	3	5	285	1.54	.15	2.23	.32	.03	.08	491
S0004826	475W L16	29	<4	78	<.4	4	196	<1	17	174	3.51	<2	88	<5	<5	71	<2	<2	20	5	9	416	1.45	.16	1.88	.48	.04	.13	793
S0004827	25E L16	59	<4	54	.6	10	125	<1	14	31	3.38	<2	63	<5	<5	73	<2	<2	14	8	8	370	.95	.16	3.26	.32	.04	.1	904
S0004828	50E L16	36	<4	63	<.4	8	83	<1	11	30	3.74	4	88	<5	<5	79	2	<2	14	5	6	330	1.05	.13	2.85	.23	.04	.1	675
S0004829	100E L16	49	<4	54	<.4	9	134	<1	12	26	3.82	<2	52	<5	<5	92	<2	<2	15	6	5	497	.86	.15	2.77	.27	.03	.1	673
S0004830	200E L9	28	<4	72	<.4	12	118	<1	14	41	4.34	<2	108	<5	<5	89	<2	<2	9	5	8	538	.98	.15	2.84	.13	.03	.13	525
S0004831	225E L9	37	<4	58	.4	15	92	<1	14	42	3.49	<2	71	<5	<5	63	<2	<2	13	8	11	391	.79	.1	2.78	.24	.04	.09	820

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %	P ppm
S0004832	250E L9	39	<4	52	.7	16	87	<1	13	40	3.03	<2	58	<5	<5	57	<2	<2	11	9	10	460	.65	.1	2.19	.25	.03	.07	849
S0004833	275E L9	29	<4	69	<.4	15	117	<1	15	42	3.55	<2	92	<5	<5	73	<2	<2	11	10	10	506	.93	.13	2.66	.23	.04	.12	745
S0004834	300E L9	30	<4	70	.4	12	83	<1	14	52	3.79	<2	124	<5	<5	80	<2	<2	10	5	9	472	.98	.13	2.84	.2	.04	.09	774
S0004835	325E L9	31	<4	73	.6	46	69	<1	15	31	6.71	<2	88	<5	<5	142	<2	<2	20	3	5	650	.72	.21	1.97	.22	.04	.09	653
S0004836	350E L9	21	<4	69	<.4	11	87	<1	12	46	3.9	<2	122	<5	5	88	<2	<2	9	4	9	507	1.09	.14	3.27	.17	.04	.12	792
S0004837	375E L9	49	<4	72	<.4	36	87	<1	17	44	5.64	<2	91	<5	<5	102	<2	<2	12	8	7	624	.77	.07	2.76	.17	.04	.09	600
S0004838	400E L9	38	<4	65	<.4	18	109	<1	19	46	3.97	<2	90	<5	<5	82	<2	<2	10	10	10	583	.84	.09	2.46	.21	.04	.1	827
S0004839	425E L9	28	<4	72	<.4	11	101	<1	12	47	3.87	<2	112	<5	<5	80	<2	<2	9	6	11	354	1.02	.11	2.72	.19	.03	.12	664
S0004840	450E L9	30	<4	63	<.4	11	132	<1	14	43	3.51	<2	101	<5	<5	71	2	<2	10	7	8	380	.87	.12	2.54	.19	.04	.12	742
S0004841	475E L9	13	<4	52	<.4	6	95	<1	10	41	3.15	<2	108	<5	<5	72	<2	<2	9	4	11	337	.87	.13	2.35	.18	.05	.09	567
S0004842	500E L9	14	<4	44	<.4	8	91	<1	10	53	2.7	<2	129	<5	<5	63	<2	<2	8	5	9	220	.82	.11	2.1	.15	.05	.07	466
S0004843	00E L10	30	6	115	<.4	19	368	<1	29	28	9.35	<2	50	<5	<5	107	<2	<2	34	21	27	1701	1.38	.22	2.97	1.04	.06	.21	1331
S0004844	25E L10	23	5	72	<.4	16	228	<1	20	39	3.96	<2	75	<5	<5	82	<2	<2	23	9	13	1028	1.01	.13	2.01	.52	.05	.14	367
S0004845	50E L10	23	<4	91	<.4	13	296	<1	17	41	4.1	<2	81	<5	<5	82	<2	<2	31	14	11	772	1.09	.13	2.34	.74	.05	.2	753
S0004846	75E L10	35	<4	71	<.4	14	261	<1	18	45	3.8	<2	73	<5	<5	76	<2	<2	27	16	18	721	1.05	.14	2.22	.62	.06	.21	846
S0004847	100E L10	24	<4	76	<.4	10	155	<1	12	33	3.5	<2	65	<5	<5	68	<2	<2	17	7	10	511	.78	.09	2.36	.29	.05	.15	952
S0004848	125E L10	30	<4	90	<.4	11	165	<1	11	40	4.24	<2	97	<5	<5	80	<2	<2	14	6	8	492	.92	.1	3.26	.18	.05	.16	739
S0004849	150E L10	32	6	110	<.4	24	149	<1	11	32	4.48	<2	67	<5	<5	68	<2	<2	15	5	7	625	.66	.06	1.93	.17	.05	.18	960
S0004850	175E L10	37	6	92	<.4	29	138	<1	19	64	5.79	<2	145	<5	<5	105	<2	<2	15	5	5	1127	.64	.06	2.35	.21	.05	.11	645
S0004851	200E L10	32	<4	73	<.4	20	91	<1	10	41	4.81	<2	83	<5	<5	84	<2	<2	12	4	9	466	.8	.1	2.58	.18	.05	.12	760
S0004852	225E L10	30	4	71	<.4	17	137	<1	15	47	4.78	<2	100	<5	<5	87	<2	<2	12	4	9	726	.98	.14	2.83	.19	.05	.16	664
S0004853	250E L10	27	<4	74	<.4	10	100	<1	14	64	4.23	<2	192	<5	<5	99	<2	<2	10	4	6	380	1.16	.15	3.26	.16	.05	.1	728
S0004854	275E L10	2	<4	55	<.4	12	<5	<1	17	52	3.52	<2	98	<5	<5	<2	<2	<2	<2	<2	<2	<5	<.01	<.01	2.61	<.01	<.01	<.01	586
S0004855	300E L10	34	<4	63	<.4	13	112	<1	16	59	3.57	<2	110	<5	<5	76	<2	<2	18	8	7	491	.83	.1	2.11	.29	.04	.12	675
S0004856	325E L10	28	<4	74	<.4	12	93	<1	16	65	3.77	<2	142	<5	<5	98	<2	<2	15	7	8	396	1.1	.13	3.37	.32	.06	.1	919
S0004857	350E L10	39	5	58	<.4	19	187	<1	15	58	3.61	<2	106	<5	<5	82	2	<2	19	10	13	456	.88	.13	2.44	.29	.05	.13	623
S0004858	375E L10	38	<4	69	<.4	14	170	<1	14	66	4	<2	119	<5	6	85	<2	<2	16	8	10	427	1.05	.15	3.24	.33	.05	.2	1061
S0004859	400E L10	30	<4	65	<.4	14	133	<1	18	60	3.28	<2	101	<5	<5	65	<2	<2	15	9	11	584	.83	.11	2.27	.29	.05	.11	716
S0004860	425E L10	29	<4	54	<.4	14	114	<1	16	59	3.6	<2	110	<5	6	76	<2	<2	13	10	9	410	.78	.1	2.24	.22	.05	.09	533
S0004861	750E L10	24	<4	73	<.4	5	183	<1	15	84	4.4	<2	242	<5	<5	119	<2	<2	11	5	2	334	1.52	.2	3.57	.2	.05	.18	633
S0004862	475E L10	16	<4	48	<.4	7	86	<1	9	48	2.98	<2	117	<5	<5	71	<2	<2	10	4	6	245	.73	.12	1.87	.2	.05	.08	477
S0004863	500E L10	26	4	48	<.4	11	79	<1	9	43	3.35	<2	93	<5	6	83	<2	<2	11	3	5	308	.47	.09	1.47	.18	.04	.07	455
S0004864	200E L11	42	5	96	<.4	19	122	<1	13	57	4.73	<2	107	<5	<5	76	<2	<2	13	8	12	546	.93	.09	3.22	.19	.05	.2	783
S0004865	225E L11	38	5	74	<.4	25	158	<1	20	65	4.81	<2	120	<5	<5	89	<2	<2	16	7	8	671	1.12	.15	3.43	.28	.06	.18	733
S0004866	250E L11	35	<4	54	<.4	15	191	<1	16	65	3.37	<2	128	<5	<5	77	<2	<2	16	8	10	509	1.09	.14	2.35	.33	.05	.15	658
S0004867	275E L11	44	4	61	<.4	18	106	<1	16	65	4.67	<2	122	<5	6	100	<2	<2	16	8	7	487	1.22	.11	3.45	.32	.05	.08	719

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %	P ppm
S0004868	300E L11	57	<4	88	<.4	18	94	<1	21	53	5.99	<2	134	<5	<5	128	<2	<2	24	9	7	861	.57	.02	2.81	.32	.05	.07	967
S0004869	325E L11	32	<4	62	<.4	11	179	<1	19	70	3.58	<2	140	<5	<5	78	<2	<2	14	7	12	573	1.14	.15	3.16	.29	.05	.14	728
S0004870	350E L11	36	<4	60	<.4	12	138	<1	20	75	4.18	<2	140	<5	<5	91	<2	<2	12	8	11	517	1.08	.16	3.74	.23	.06	.15	636
S0004871	375E L11	29	<4	70	<.4	8	160	<1	22	79	3.98	<2	146	<5	7	84	<2	<2	15	4	8	437	1.01	.13	2.8	.22	.05	.12	451
S0004872	400E L11	30	<4	77	<.4	15	157	<1	23	68	4.31	<2	124	<5	<5	76	<2	<2	15	8	10	627	.82	.1	2.73	.29	.06	.17	902
S0004873	425E L11	15	4	57	<.4	14	80	<1	11	41	4.25	<2	91	<5	7	91	<2	<2	13	4	6	497	.45	.08	1.69	.23	.05	.05	492
S0004874	750E L11	40	5	89	<.4	19	70	<1	18	51	6.14	<2	124	<5	6	123	<2	<2	10	6	9	758	.54	.09	2.49	.12	.05	.08	720
S0004875	475E L11	32	<4	53	<.4	8	97	<1	14	60	3.41	<2	114	<5	<5	73	<2	<2	11	6	10	377	.8	.12	2.63	.21	.05	.1	664
S0004876	500E L11	21	<4	67	<.4	11	92	<1	14	64	4.57	<2	184	<5	<5	95	<2	<2	8	3	6	605	.95	.14	2.29	.13	.05	.16	631
S0004877	200E L12	23	<4	54	<.4	11	159	<1	13	55	3.74	<2	105	<5	<5	69	<2	<2	18	5	9	375	.87	.11	2.12	.41	.05	.07	506
S0004878	225E L12	41	<4	85	<.4	11	172	<1	12	68	4.35	<2	131	<5	<5	115	<2	<2	10	6	7	483	1.37	.14	3.26	.23	.05	.11	686
S0004879	250E L12	27	<4	57	<.4	14	147	<1	14	59	3.26	<2	109	<5	7	67	<2	<2	12	7	11	544	.96	.13	2.43	.21	.06	.09	421
S0004880	275E L12	34	5	88	<.4	20	147	<1	16	57	4.41	<2	92	<5	9	64	<2	<2	13	6	9	785	.65	.05	2.36	.1	.05	.08	573
S0004881	300E L12	35	<4	71	<.4	11	145	<1	12	45	3.73	<2	90	<5	<5	74	<2	<2	11	10	10	396	.96	.08	2.82	.19	.04	.12	828
S0004882	325E L12	68	6	80	<.4	47	79	<1	52	62	9.21	<2	127	<5	<5	175	2	<2	15	14	8	1436	1.25	.08	2.59	.2	.03	.05	604
S0004883	350E L12	79	<4	95	<.4	20	107	<1	35	74	9.7	<2	189	<5	<5	183	<2	<2	8	18	9	809	1.7	.01	3.79	.14	.03	.06	725
S0004884	375E L12	69	<4	69	<.4	435	118	1	60	48E10.81	<2	59	6	7	146	<2	<2	79	13	11	1347	.37	.02	2.14	.61	.04	.04	389	
S0004885	400E L12	26	<4	71	<.4	12	110	<1	15	43	3.78	<2	94	<5	<5	79	2	<2	10	5	11	415	1.01	.12	2.88	.2	.03	.14	654
S0004886	425E L12	28	<4	48	<.4	14	125	<1	14	43	3.33	<2	91	<5	<5	69	<2	<2	11	6	9	377	.81	.1	2.49	.23	.04	.13	689
S0004887	450E L12	30	<4	50	<.4	10	109	<1	12	40	3.03	<2	82	<5	<5	62	<2	<2	12	7	10	344	.81	.11	2.37	.24	.03	.1	698
S0004888	475E L12	27	<4	50	<.4	10	142	<1	12	42	3.21	<2	83	<5	6	67	<2	<2	12	9	13	433	.89	.12	2.78	.22	.04	.12	671
S0004889	500E L12	14	5	49	<.4	9	106	<1	9	33	3.18	<2	83	<5	5	72	2	<2	10	3	7	290	.81	.13	2.38	.18	.04	.11	445
S0004890	OOATM S003	113	<4	67	<.4	34	136	<1	42	83	6.36	<2	58	<5	<5	113	<2	<2	50	15	19	1115	1.62	<.01	1.58	3.28	.05	.12	418
S0004891	OOATM S004	85	<4	60	<.4	26	220	<1	57	205	6.85	<2	207	<5	<5	96	<2	<2	45	17	10	1353	.73	<.01	1.63	1.24	.05	.1	299
S0004892	OOATM S005	166	4	99	<.4	14	104	<1	62	187E10.44	<2	363	<5	<5	250	2	<2	35	28	18	1976	3.13	<.01	3.25	1.13	.03	.06	1913	
S0004893	OOATM S006	163	<4	99	<.4	10	43	<1	45	45	8.39	<2	55	<5	<5	165	<2	<2	23	21	18	1911	1.83	<.01	2.48	1.65	.03	.03	780
S0004894	OOATM S007	123	<4	68	<.4	13	197	<1	38	69	5.21	<2	67	<5	<5	134	2	<2	65	15	12	1364	1.05	.06	1.97	.67	.03	.14	868
S0004895	OOATM S008	104	5	85	<.4	14	152	<1	64	123	9.06	<2	200	<5	<5	269	<2	<2	40	32	9	2380	.33	<.01	1.1	.25	.03	.1	698
S0004896	OOATM S009	83	<4	100	<.4	15	60	<1	184	1911	9.48	<2	432	<5	<5	29	<2	<2	10	6	3	1943E15.89	.04	1.19	.19	.03	.07	973	
S0004897	OOATM S010	108	4	74	<.4	20	244	<1	35	64	6.01	<2	84	<5	<5	134	<2	<2	26	14	14	1246	.94	.05	1.67	.86	.04	.16	1046
S0004898	OOATM S011	202	<4	102	<.4	8	22	<1	51	29	9.02	<2	20	<5	6	170	<2	<2	36	9	16	2130	2.31	.16	4.18	2.41	.04	.02	775
S0004899	OOATM S012	86	<4	81	<.4	21	73	<1	31	19	6.61	<2	4	<5	<5	113	<2	<2	33	25	22	992	.95	<.01	.49	2.61	.03	.01	818
S0004900	OOATM S015	162	4	113	<.4	22	433	<1	37	42E10.22	<2	38	<5	<5	272	<2	<2	260	38	15	2710	.34	.02	1.11	.22	.03	.08	480	
S0004901	OOATM S016	152	5	100	<.4	16	179	<1	34	34	6.99	<2	39	<5	<5	140	<2	<2	37	22	12	2099	.78	.03	1.68	.52	.03	.14	1384
S0004902	OOATM S017	209	67	79	<.4	57	147	<1	133	61E12.06	<2	36	<5	<5	128	<2	<2	38	11	15	1093	1.26	.16	1.78	1	.03	.07	984	
S0004903	OOATM S018	<1	<4	76	<.4	9	<5	<1	18	71	4.01	<2	95	<5	<5	<2	2	<2	<2	<2	<2	19	.04	<.01	3.02	<.01	<.01	<.01	550

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %	P ppm
S0004904	OOATM S019	129	4	76	<.4	13	215	<1	19	58	4.24	2	116	<5	5	99	<2	<2	33	12	10	1725	1.22	.1	2.92	.82	.03	.06	869
S0004905	OOATM S020	38	<4	181	<.4	86	237	<1	32	32E13	4.6	12	71	<5	<5	260	<2	<2	34	5	14	1369	1.32	.28	2.52	1.12	.03	.02	1057
S0004906	OOATM S021	135	<4	90	<.4	10	207	<1	81	444	8.55	<2	777	<5	<5	117	2	<2	41	22	11	1398	4.76	.2	4.2	1.45	.03	.02	283
S0004907	OOATM S022	110	<4	80	<.4	3	159	<1	65	337	7.33	<2	485	<5	<5	97	<2	<2	43	18	14	1301	4.25	.2	3.74	1.88	.03	.03	281
S0004908	OOATM S023	64	<4	73	<.4	12	331	<1	47	210	8.4	<2	193	8	<5	145	<2	<2	87	21	30	1528	1.24	<.01	1.33	2.24	.05	.06	1592
S0004909	OOATM S024	45	<4	84	<.4	27	277	<1	19	62	4.23	4	96	<5	<5	119	<2	<2	52	20	14	689	.53	.03	1.11	1.2	.04	.09	813
S0004910	OOATM S025	42	4	86	<.4	24	227	<1	17	53	4.59	<2	93	<5	<5	118	2	<2	35	24	23	860	.85	.06	1.93	1.04	.04	.12	467
S0004911	OOATM S026	46	8	98	<.4	34	478	<1	26	61	5.25	<2	126	6	<5	108	<2	2	105	15	33	1088	.55	.03	1.22	7.12	.07	.11	904
S0004912	OOATM S027	37	<4	67	<.4	12	188	<1	13	33	3.14	<2	51	<5	6	61	<2	2	86	9	28	724	.5	.04	1.12	7.04	.07	.09	694
S0004913	OOATM S028	27	<4	104	<.4	20	208	<1	21	68	7.07	<2	115	<5	<5	198	<2	<2	48	48	63	1488	.35	.02	1.21	1.38	.03	.04	578
S0004914	OOATM S029	29	6	69	<.4	18	267	<1	18	35	5.07	<2	74	<5	<5	119	<2	<2	21	12	11	788	.85	.08	2.48	.38	.03	.07	405
S0004915	OOATM S030	39	<4	69	<.4	18	185	<1	16	47	4.41	<2	67	<5	<5	98	2	<2	37	29	29	983	.64	.07	1.66	1.3	.03	.07	365
S0004916	OOATM S031	31	<4	39	<.4	22	134	<1	9	29	2.74	<2	31	<5	<5	55	<2	<2	131	11	8	442	.19	.01	1.09	.26	.02	.04	473
S0004917	OOATM S032	90	4	73	<.4	40	104	<1	37	81	7.08	<2	235	5	<5	151	<2	<2	73	20	25	1141	.7	<.01	.78	3.71	.03	.11	534
S0004918	OOATM S033	33	<4	56	<.4	12	135	<1	15	40	3.47	<2	71	<5	<5	66	2	<2	16	11	10	558	.8	.08	1.91	.32	.03	.11	902
S0004919	OOATM S034	37	<4	59	<.4	16	167	<1	15	43	3.3	<2	69	<5	<5	67	2	<2	24	14	16	595	.79	.08	1.76	.39	.04	.1	1017
S0004920	OOATM S035	40	<4	53	<.4	15	175	<1	14	35	3.14	<2	55	<5	<5	66	2	<2	17	16	15	669	.71	.07	1.28	.36	.03	.07	908
S0004921	OOATM S036	63	<4	132	<.4	15	150	<1	34	64	8.21	<2	170	<5	5	239	2	<2	16	7	6	1263	1.61	.19	3.11	.53	.08	.17	567
S0004922	OOATM S037	105	<4	175	<.4	11	160	<1	55	95	9.67	<2	226	<5	8	259	<2	<2	17	10	9	1499	2.07	.16	4.56	.61	.06	.17	633
S0004923	OOATM S038	120	<4	140	<.4	11	131	<1	57	82	9.47	<2	212	<5	<5	234	<2	<2	23	14	14	1952	1.7	.13	4.76	.73	.08	.09	937
S0004924	OOLTM S001	89	<4	61	<.4	27	88	<1	55	41E10	0.02	<2	125	8	<5	164	<2	<2	16	31	7	2052	.24	.03	.88	.28	.03	<.01	351
S0004925	OOLTM S002	111	<4	67	<.4	26	68	<1	53	55	8.74	<2	121	<5	<5	148	<2	<2	26	31	9	1625	.3	.09	.7	.39	.03	<.01	436
S0004926	OOLTM S003	119	<4	91	<.4	38	121	<1	68	83E11	1.78	<2	124	<5	5	195	<2	<2	19	47	7	2455	.28	<.01	.5	.49	.03	<.01	606
S0004927	OOLTM S004	112	<4	104	<.4	73	157	<1	67	89E11	1.31	<2	126	<5	<5	207	<2	<2	13	38	6	2424	.3	<.01	.48	.53	.03	<.01	676
S0004928	BHM1	131	<4	46	<.4	3	34	<1	50	108	3.78	<2	130	<5	<5	59	2	<2	21	5	7	577	2.29	.05	2.12	.72	.03	.05	971
S0004929	BHM2	54	<4	73	<.4	17	335	<1	19	28	3.97	<2	46	<5	<5	76	2	<2	22	9	10	578	1.17	.1	1.91	.51	.03	.53	1055
S0004930	BHM3	186	<4	71	.4	11	24	<1	66	86	5.74	<2	223	<5	<5	115	<2	<2	31	3	8	1149	3.08	.08	2.93	1.17	.03	.02	1001
S0004931	BHM4	82	6	70	<.4	17	194	<1	24	45	4.35	<2	59	<5	<5	88	<2	<2	31	12	19	791	1.22	.06	1.68	1.37	.03	.24	994
S0004932	BHM5	133	4	72	<.4	13	119	<1	41	49	4.9	<2	68	<5	<5	106	<2	<2	25	10	11	975	1.75	.12	2.2	1.27	.05	.13	902
S0004933	BHM6	91	4	72	<.4	14	132	<1	25	34	3.97	<2	55	<5	<5	83	<2	<2	26	8	17	777	1.23	.08	1.85	1.13	.08	.2	1031
S0004934	BHM7	239	6	102	<.4	29	65	<1	85	52	8.72	<2	58	<5	<5	171	3	<2	40	6	17	2648	3.34	.15	3.8	1.87	.07	.04	896
S0004935	BHM8	222	6	103	<.4	41	62	<1	94	97	9.41	<2	129	<5	<5	183	<2	<2	31	14	12	2331	3.27	.1	3.75	1.57	.04	.06	1056
S0004936	BHM9	85	4	71	<.4	20	168	<1	22	41	4.65	<2	53	<5	<5	87	<2	2	22	12	9	750	1.35	.08	1.78	.78	.04	.19	925
S0004937	BHM10	68	4	66	<.4	25	236	<1	21	41	4.35	<2	64	<5	<5	94	2	<2	19	15	15	885	1.03	.07	1.66	.56	.04	.31	724
S0004938	BHM11	91	<4	75	<.4	16	192	<1	30	66	5.49	<2	79	<5	5	111	<2	<2	38	15	14	1076	1.21	.03	1.58	1.1	.03	.2	995
S0004939	BHM12	111	<4	75	<.4	27	98	<1	32	47	6.22	<2	49	<5	<5	120	<2	<2	22	23	13	1317	.72	<.01	1.24	.69	.03	.08	989

LAB NO	FIELD NUMBER	Cu	Pb	Zn	Ag	As	Ba	Cd	Co	Ni	Fe	Mo	Cr	Bi	Sb	V	Sn	W	Sr	Y	La	Mn	Mg	Ti	Al	Ca	Na	K	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm
S0004940	BHM13	90	4	85	<.4	23	109	<1	26	36	5.53	<2	53	<5	<5	103	2	<2	15	16	9	1053	1.01	.01	1.78	.42	.03	.14	1130
S0004941	BHM14	93	6	75	<.4	18	190	<1	26	51	4.68	<2	69	<5	<5	86	2	<2	19	15	14	894	1.25	.06	1.86	.58	.04	.19	911
S0004942	BHM15	138	<4	76	<.4	10	135	<1	77	167	7.75	<2	229	<5	5	138	2	<2	16	13	5	1880	3.91	.03	2.66	.88	.03	.03	727
S0004943	BHM16	224	6	115	<.4	14	104	<1	54	72	8.94	2	102	<5	5	161	<2	<2	23	16	15	1948	2.11	.04	2.36	.9	.03	.04	1400
S0004944	BHM17	96	16	92	<.4	37	383	<1	35	49	5.09	<2	27	<5	<5	62	3	<2	28	14	10	1881	.87	<.01	1.14	.42	.03	.17	674
S0004945	BHM18	95	17	127	<.4	17	184	<1	27	47	5.63	<2	48	<5	<5	88	<2	<2	30	20	27	1094	1.63	.01	2.53	1.28	.15	.18	966
S0004946	BHM19	77	20	100	<.4	39	199	<1	44	57	5.67	<2	30	<5	<5	64	<2	<2	85	12	20	1506	.63	<.01	.52	1.93	.03	.15	734
S0004947	BHM20	70	8	77	<.4	17	212	<1	24	38	3.44	<2	21	<5	<5	39	2	<2	139	15	25	459	.35	<.01	.55	1.26	.03	.17	1290
S0004948	BHM21	119	11	114	<.4	41	207	<1	32	39	6.07	<2	44	<5	5	92	<2	<2	25	19	21	970	1.17	.08	2.57	.63	.04	.26	1206
S0004949	BHM22	160	<4	71	<.4	7	56	<1	38	57	6.23	<2	94	<5	<5	131	<2	<2	32	14	14	1392	1.64	.03	2.15	.73	.03	.05	917
S0004950	BHM23	45	<4	65	<.4	13	62	<1	31	86	4.38	<2	169	<5	6	89	<2	<2	13	5	5	747	2.23	.09	3.3	.3	.03	.06	657
S0004951	BHM24	40	5	63	<.4	19	61	<1	19	38	5.84	<2	86	<5	<5	130	<2	<2	13	4	5	672	1.46	.11	2.55	.22	.07	.05	532
S0004952	BHM25	18	<4	50	<.4	5	194	<1	11	47	2.71	<2	100	<5	6	66	<2	<2	10	4	8	283	.99	.12	2.39	.21	.04	.22	779
S0004953	BHM26	43	<4	58	<.4	12	89	<1	22	39	4.5	<2	92	<5	6	88	<2	2	21	5	7	548	1.07	.1	2.35	.62	.06	.03	654
S0004954	BHM27	60	6	109	<.4	12	69	<1	27	25	4.14	<2	76	<5	5	93	2	<2	25	4	9	872	.8	.05	1.63	.74	.06	.1	975
S0004955	BHM28	61	4	70	<.4	5	81	<1	26	54	5.36	<2	158	<5	7	142	<2	2	35	10	12	857	1.86	.14	3.21	1.05	.08	.03	697
S0004956	BHM29	47	<4	124	<.4	10	52	<1	38	62	7.61	<2	172	<5	6	210	<2	<2	39	4	7	1477	2.88	.17	3.77	.85	.07	.07	884
S0004957	BHM30	184	<4	102	<.4	19	54	<1	71	82	6.92	<2	82	<5	5	148	<2	<2	33	7	14	1738	2.41	.14	3.74	.77	.07	.09	1266
S0004958	BHM31	118	<4	76	<.4	13	28	<1	26	51	5.33	<2	94	<5	<5	136	2	<2	22	6	9	824	2.1	.11	3.6	.35	.06	.04	972
S0004959	BHM32	104	4	68	<.4	15	92	<1	19	52	4.57	<2	107	<5	<5	116	2	<2	31	12	14	582	1.76	.08	2.66	.95	.03	.07	902
S0004960	BHM33	56	<4	61	<.4	35	298	<1	20	52	3.76	<2	62	<5	<5	68	<2	<2	19	11	11	616	.92	.05	1.31	.44	.03	.16	974
S0004961	BHM34	45	<4	86	<.4	8	122	<1	17	164	3.53	<2	82	<5	<5	75	<2	2	12	6	8	1188	1.01	.06	2.02	.33	.08	.17	916
S0004962	BHM35	71	<4	129	<.4	<2	75	<1	28	111	5.35	<2	116	<5	<5	134	<2	<2	23	10	11	734	2.68	.23	2.81	1.28	.08	.05	560
S0004963	BHM36	62	<4	55	<.4	11	73	<1	15	40	4.5	3	123	<5	<5	108	<2	<2	16	5	4	447	1.06	.04	2.58	.24	.07	.03	679
S0004964	BHM37	71	<4	37	<.4	10	59	<1	8	29	3.55	<2	68	<5	<5	77	<2	<2	7	4	5	242	.59	.05	2.33	.12	.06	.08	749
S0004965	BHM38	42	<4	37	<.4	10	79	<1	12	25	3.6	<2	60	<5	<5	80	<2	<2	9	5	7	366	.67	.11	2.44	.17	.06	.08	704
S0004966	BHM39	30	<4	42	<.4	12	98	<1	12	25	3.67	<2	59	<5	<5	73	<2	<2	8	3	6	323	.72	.1	2.51	.16	.06	.1	728
S0004967	BHM40	33	<4	37	<.4	2	156	<1	11	26	2.3	<2	55	<5	<5	58	<2	<2	12	5	5	307	.75	.07	1.73	.25	.07	.08	829
S0004968	BHM41	24	<4	57	<.4	8	88	<1	13	29	4.01	<2	74	<5	<5	85	<2	<2	8	2	4	476	.84	.12	2.32	.11	.07	.1	679
S0004969	BHM42	34	<4	51	<.4	10	82	<1	11	25	3.04	<2	53	<5	<5	66	<2	<2	9	4	4	424	.73	.08	2.27	.15	.07	.08	463
S0004970	BHM43	35	<4	49	<.4	9	110	<1	11	28	2.75	<2	55	<5	<5	59	<2	<2	8	5	6	282	.64	.07	2.14	.19	.06	.11	752
S0004971	BHM44	33	<4	56	<.4	10	112	<1	14	28	3.4	<2	51	<5	<5	71	<2	2	8	4	4	377	.73	.1	2.6	.16	.07	.1	561
S0004972	BHM45	136	<4	70	<.4	20	159	<1	26	46	4.19	<2	76	<5	<5	99	<2	<2	14	9	2	910	1.08	.1	2.36	.31	.03	.18	1255
S0004973	BHM46	71	<4	65	<.4	17	169	<1	17	34	3.41	<2	39	<5	<5	65	<2	<2	31	10	13	634	.93	.06	1.51	1.04	.04	.2	1047
S0004974	BHM47	103	<4	74	<.4	16	170	<1	23	33	3.88	<2	51	<5	<5	75	<2	<2	17	9	10	824	1.01	.07	1.94	.37	.06	.17	936
S0004975	BHM48	61	<4	50	<.4	8	205	<1	11	30	2.61	<2	55	<5	<5	63	<2	<2	15	7	6	317	.84	.09	1.6	.38	.04	.21	913

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %	P ppm
S0004976	BHM49	29	<4	38	<.4	7	201	<1	11	19	1.9	<2	35	<5	<5	47	<2	<2	18	5	8	495	.54	.06	1.04	.38	.04	.24	930
S0004977	BHM50	144	<4	69	<.4	10	120	<1	40	39	6.6	<2	37	5	<5	127	<2	<2	39	20	22	1733	.74	<.01	1	3.02	.03	.08	1412
S0004978	BHM51	144	<4	87	<.4	8	76	<1	46	41	7.28	<2	71	<5	<5	129	<2	<2	39	8	11	1683	2.17	.08	2.47	1.22	.03	.06	969
S0004979	BHM52	127	<4	68	<.4	7	103	<1	35	37	6.57	<2	48	<5	<5	128	<2	<2	55	14	15	1250	1	<.01	1.24	1.34	.03	.06	1198
S0004980	BHM53	132	<4	82	<.4	15	188	<1	34	40	6.98	<2	51	5	<5	160	<2	<2	73	19	13	1412	.97	.01	1.32	.86	.03	.12	1071
S0004981	BHM54	179	<4	84	<.4	11	49	<1	35	35	8.18	<2	38	<5	<5	140	<2	4	86	17	17	1365	2.27	.01	1.85	2.03	.04	.05	1156
S0004982	BHM55	196	<4	93	<.4	<2	35	<1	37	25	7.91	<2	42	<5	<5	163	<2	<2	48	12	8	1888	3.69	.09	3.6	1.39	.04	.03	1262
S0004983	BHM56	59	<4	92	<.4	7	253	<1	22	91	5.04	<2	203	<5	<5	149	<2	<2	23	10	9	592	2.13	.19	3.21	.85	.04	.33	844
S0004984	BHM57	102	6	109	<.4	49	93	<1	34	39	8.23	2	29	<5	<5	104	<2	<2	30	20	12	1590	.37	<.01	.45	.97	.03	.1	1247
S0004985	BHM58	123	<4	72	<.4	20	36	<1	37	29	6.33	<2	40	<5	<5	122	<2	3	29	14	16	1193	2.33	<.01	3.35	2.37	.04	.15	885
S0004986	BHM59	53	5	83	<.4	15	116	<1	18	32	4.61	<2	47	<5	<5	75	<2	<2	18	14	10	975	.84	<.01	1.72	.51	.03	.1	931
S0004987	BHM60	47	4	70	<.4	17	58	<1	17	25	4.69	<2	52	<5	<5	89	<2	<2	11	4	6	1061	.64	.02	2.32	.29	.06	.09	537
S0004988	BHM61	131	6	60	<.4	42	87	<1	66	56	8.32	<2	69	6	<5	143	<2	<2	55	10	10	2009	1.57	.03	2.28	1.91	.03	.02	646
S0004989	BHM62	87	<4	112	<.4	4	160	<1	45	82	8.31	<2	184	<5	<5	197	<2	<2	123	21	29	1586	3.68	<.01	3.58	1.57	.07	.07	1793
S0004990	BHM63	42	<4	64	<.4	13	147	<1	15	31	3.99	<2	49	<5	<5	68	<2	<2	23	11	10	668	1.05	.05	1.78	.5	.04	.1	658
S0004991	BHM64	27	4	80	<.4	17	123	<1	9	26	3.94	<2	38	<5	<5	52	<2	<2	22	11	9	378	.89	<.01	1.8	.37	.03	.06	881
S0004992	BHM65	36	4	73	<.4	24	139	<1	9	27	3.85	<2	39	<5	<5	58	<2	<2	14	12	4	449	.78	<.01	1.78	.21	.03	.06	688
S0004993	BHM66	98	13	130	<.4	27	137	<1	37	55	5.91	<2	32	<5	<5	72	<2	<2	21	41	29	2169	.99	<.01	1.66	.42	.04	.16	1218
S0004994	BHM67	47	<4	86	<.4	19	75	<1	9	26	3.83	<2	36	<5	<5	48	<2	<2	7	7	10	483	.84	.01	1.98	.16	.03	.05	815
S0004995	BHM68	33	7	107	<.4	19	98	<1	18	27	3.69	<2	51	<5	<5	57	<2	4	9	7	5	789	.83	.02	2.17	.16	.02	.08	938
S0004996	BHM69	18	<4	70	<.4	14	104	<1	10	41	3.14	<2	80	<5	<5	73	<2	4	16	5	6	285	.98	.08	2.19	.3	.03	.06	502
S0004997	BHM70	81	14	145	<.4	31	158	<1	28	49	6.16	3	35	<5	<5	65	<2	5	38	42	32	807	.92	<.01	1.88	.65	.03	.18	1412
S0004998	BHM71	54	6	103	<.4	14	92	<1	20	41	3.99	<2	49	<5	<5	64	<2	<2	25	12	9	500	1.06	.04	2.05	.43	.03	.08	905
S0004999	BHM72	54	<4	93	<.4	15	192	<1	19	44	4.53	<2	67	<5	<5	70	<2	<2	25	24	22	835	1.12	.06	1.97	.48	.03	.19	1090
S0005000	BHM73	40	11	90	<.4	29	106	<1	24	33	7.01	<2	56	12	<5	92	<2	<2	8	9	9	842	.74	.02	2.34	.12	.06	.1	867
S0005001	BHM75	46	9	123	<.4	11	106	<1	20	36	5.86	<2	40	<5	<5	62	<2	5	21	19	14	802	1.84	.08	3.5	.64	.02	.06	1054
S0005002	BHM76	71	13	110	<.4	29	54	<1	31	34	5.33	<2	46	<5	<5	66	<2	<2	12	10	7	1128	1.49	.08	2.75	.32	.03	.11	1256
S0005003	BHM77	47	<4	74	<.4	13	199	<1	16	34	3.95	<2	64	<5	<5	82	<2	<2	13	6	3	543	1.06	.11	3.52	.24	.06	.31	921
S0005004	BHM78	142	<4	99	<.4	14	120	<1	24	34	6.07	<2	57	<5	<5	114	<2	3	12	7	4	822	1.24	.09	3.52	.29	.06	.15	574
S0005005	BHM79	18	<4	69	<.4	13	252	<1	11	25	4.89	<2	65	<5	<5	90	<2	2	17	4	6	271	.97	.17	3.37	.17	.06	.27	561
S0005006	BHM80	29	<4	45	<.4	4	230	<1	10	25	3.34	<2	54	<5	<5	66	<2	6	13	3	4	224	.88	.14	3.58	.14	.07	.23	579
S0005007	BHM81	56	<4	68	<.4	19	195	<1	15	36	5.26	<2	71	<5	<5	107	<2	<2	12	4	6	419	1.13	.12	2.89	.23	.07	.28	1410
S0005008	BHM82	39	4	113	<.4	11	167	<1	23	52	4.32	<2	121	<5	<5	94	<2	<2	13	7	7	869	1.03	.04	2.38	.23	.06	.23	651
S0005009	BHM83	291	<4	115	<.4	3	74	<1	110	146	7.76	<2	199	<5	<5	170	<2	<2	17	15	18	2087	2.97	.05	3.55	2.05	.06	.1	813
S0005010	BHM84	33	<4	60	<.4	12	213	<1	13	25	3.37	<2	54	<5	<5	67	<2	<2	13	6	5	544	.82	.09	2.84	.2	.07	.29	814
S0005011	BHM85	181	<4	69	<.4	16	124	<1	16	36	4.08	<2	76	<5	<5	110	<2	3	23	14	9	425	1.35	.1	2.63	.67	.04	.09	423

LAB NO	FIELD NUMBER	Cu	Pb	Zn	Ag	As	Ba	Cd	Co	Ni	Fe	Mo	Cr	Bi	Sb	V	Sn	W	Sr	Y	La	Mn	Mg	Ti	Al	Ca	Na	K	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm
0005012	BHM87	166	<4	85	<.4	7	93	<1	33	44	5.07	<2	90	<5	<5	148	<2	<2	14	9	5	1168	1.41	.09	3.73	.41	.07	.1	983
0005013	BHM88	72	<4	72	<.4	12	118	<1	20	28	3.75	<2	59	<5	<5	82	<2	<2	12	7	6	885	.84	.04	2.91	.2	.07	.13	839
0005014	BHM89	34	<4	163	<.4	12	193	<1	11	39	2.91	<2	64	<5	<5	56	<2	2	35	15	19	627	.63	.02	1.76	1.86	.08	.06	1815
0005015	BHM90	170	<4	118	<.4	2	135	<1	55	124	9.63	<2	112	<5	<5	210	<2	<2	28	12	15	1953	3.77	.28	4.27	1.67	.03	.06	664
0005016	BHM91	190	<4	78	<.4	<2	116	<1	46	76	7.61	<2	131	<5	<5	155	<2	<2	47	13	7	1807	3.4	.22	3.79	1.6	.03	.07	700
0005017	BHM92	125	<4	70	<.4	26	344	<1	43	74	6.93	<2	146	<5	<5	157	<2	2	21	24	6	1540	.87	.04	1.77	.59	.03	.09	605
0005018	BHM93	113	<4	83	<.4	35	95	<1	148	1392	3.86	5	608	<5	<5	53	<2	<2	35	4	2	306E10.36	.04	1.84	.8	.08	.02	526	
0005019	BHM94	97	<4	43	<.4	599	319	<1	53	459E24.52		<2	112	12	<5	27	<2	<2	58	47	6	1261	1.02	<.01	.21	.87	.09	<.01	1008
0005020	BHM95	70	<4	84	<.4	226	163	<1	34	36E15.42		11	103	<5	<5	175	<2	<2	53	12	13	854	1.57	.17	3.59	1.2	.09	.04	1419

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised

If requested analyses are not shown ,results are to follow

ANALYTICAL METHODS

ICP PACKAGE :0.5 gram sample digested in hot reverse aqua regia (soil,silt) or hot Aqua Regia(rocks).

SANTOX RESOURCES-X00

Job V 00-0629S

MANFIELD/SHIP#3

Report date 3 OCT 2000

LAB NO	FIELD NUMBER	Cu	Pb	Zn	Ag	As	Ba	Cd	Co	Ni	Fe	Mo	Cr	Bi	Sb	V	Sn	W	Sr	Y	La	Mn	Mg	Ti	Al	Ca	Na	K	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm
S0005325	COATM 8014	138	<4	90	<.4	10	78	<1	49	57	8.18	<2	45	<5	6	181	<2	<2	27	11	16	1623	1.67	.09	3.26	1.02	.03	.1	525

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised

If requested analyses are not shown ,results are to follow

ANALYTICAL METHODS

ICP PACKAGE 10.5 gram sample digested in hot reverse aqua regia (soil,silt) or hot Aqua Regia(rocks).

SANTOY RESOURCES-X00

Job V000539S

MANSFIELD Date 29-Sep-00

LAB NO	FIELD NUMBER	Au ppb	Pt ppb	Pd ppb	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %	P ppm
S0002962	L500S 75W	3	5	2	44	5	90	<.4	12	107	<.1	10	24	3.73	<.2	55	<.5	5	76	<.2	<.2	12	5	6	375	0.74	0.08	2.6	0.17	0.01	0.1	619
S0002963	L500S 100W	2	<.5	<.2	16	<.4	46	<.4	7	197	<.1	8	19	2.45	<.2	44	<.5	5	51	<.2	<.2	15	4	7	184	0.72	0.12	2.24	0.22	0.02	0.11	636
S0002964	L500S 125W	3	<.5	<.2	24	<.4	94	<.4	11	207	<.1	12	18	3.27	<.2	38	<.5	5	59	<.2	2	14	5	9	335	0.89	0.14	3.01	0.2	0.02	0.24	640
S0002965	L500S 150W	3	6	3	147	<.4	92	<.4	10	47	<.1	24	20	6.55	<.2	33	<.5	<.5	133	<.2	3	14	3	7	932	1.22	0.01	2.63	0.32	0.01	0.07	1093
S0002966	L500S 175W	3	5	<.2	36	<.4	93	<.4	14	157	<.1	12	17	4.89	<.2	42	<.5	5	105	<.2	<.2	16	4	6	393	0.86	0.2	2.5	0.26	0.02	0.16	663
S0002967	L500S 200W	2	6	<.2	46	<.4	75	<.4	14	124	<.1	16	22	3.46	<.2	48	5	<.5	69	<.2	<.2	16	6	8	691	0.72	0.05	1.98	0.25	0.02	0.17	909
S0002968	L500S 225W	9	6	<.2	25	<.4	68	<.4	17	235	<.1	11	22	3.79	<.2	45	<.5	8	71	<.2	<.2	19	5	8	350	1.01	0.15	2.25	0.25	0.02	0.17	382
S0002969	L500S 250W	4	11	6	27	<.4	87	<.4	18	229	<.1	12	22	3.35	<.2	63	<.5	5	73	<.2	<.2	24	17	16	351	1.03	0.09	2.19	0.64	0.02	0.15	991
S0002970	L500S 275W	3	11	13	40	<.4	79	<.4	12	208	<.1	12	36	2.28	<.2	227	5	<.5	51	<.2	5	27	9	13	233	1.01	0.09	2.03	0.87	0.02	0.17	963
S0002971	L500S 300W	2	10	6	34	<.4	126	<.4	<.2	266	<.1	10	23	2.27	<.2	101	<.5	<.5	55	<.2	<.2	26	9	11	220	1.03	0.14	1.79	0.95	0.02	0.09	1362
S0002972	L500S 325W	2	<.5	4	29	<.4	104	<.4	141	240	<.1	15	25	9.28	3	66	<.5	7	141	<.2	5	27	7	13	478	1.21	0.16	1.99	0.81	0.02	0.19	1163
S0002973	L500S 375W	7	5	19	216	<.4	69	<.4	12	222	<.1	20	88	3.07	<.2	127	<.5	<.5	102	<.2	5	35	70	31	296	1.43	0.1	2.72	0.88	0.03	0.14	1063
S0002974	L500S 400W	2	<.5	2	39	<.4	72	<.4	10	191	<.1	14	101	3.56	<.2	92	<.5	<.5	71	<.2	2	23	6	9	299	1.45	0.14	2.03	0.64	0.02	0.14	757
S0002975	L500S 425W	<.2	<.5	2	25	<.4	105	<.4	9	208	<.1	11	46	3.4	<.2	92	<.5	7	77	<.2	5	25	5	9	286	1.22	0.14	1.98	0.72	0.02	0.1	569
S0002976	L500S 450W	9	7	7	91	<.4	92	<.4	14	166	<.1	31	106	6.61	<.2	170	5	6	142	<.2	<.2	34	16	16	861	1.83	0.06	2.65	0.81	0.02	0.08	1063
S0002977	L600S 300E	2	5	<.2	21	<.4	50	<.4	20	59	<.1	7	20	3.05	<.2	54	<.5	<.5	58	<.2	<.2	10	4	4	214	0.52	0.07	1.79	0.15	0.02	0.04	505
S0002978	L600S 310E	<.2	<.5	<.2	19	<.4	55	<.4	11	66	<.1	8	22	3.31	<.2	64	<.5	<.5	73	<.2	2	11	3	7	268	0.59	0.06	1.69	0.12	0.02	0.03	504
S0002979	L600S 320E	2	5	<.2	30	<.4	63	<.4	19	83	<.1	12	24	4.8	<.2	62	<.5	<.5	101	<.2	<.2	10	3	3	563	0.5	0.09	1.45	0.11	0.02	0.04	706
S0002980	L600S 330E	3	15	<.2	25	<.4	72	<.4	20	67	<.1	11	30	3.97	<.2	83	<.5	6	89	<.2	2	9	3	4	474	0.61	0.09	1.87	0.1	0.02	0.05	626
S0002981	L600S 340E	2	6	<.2	28	<.4	66	<.4	23	65	<.1	9	19	3.93	<.2	57	5	<.5	85	<.2	2	13	4	4	443	0.42	0.07	1.71	0.15	0.01	0.05	617
S0002982	L600S 350E	<.2	<.5	<.2	29	<.4	63	<.4	24	58	<.1	10	26	3.74	<.2	58	<.5	<.5	67	<.2	<.2	10	6	9	399	0.48	0.06	2.17	0.17	0.02	0.06	874
S0002983	L600S 360E	<.2	<.5	<.2	18	<.4	67	<.4	16	65	<.1	9	35	3.36	<.2	107	<.5	6	72	<.2	3	10	3	4	283	0.64	0.08	1.73	0.14	0.02	0.03	659
S0002984	L600S 370E	<.2	<.5	<.2	28	<.4	56	<.4	26	63	<.1	11	21	3.78	<.2	58	5	<.5	86	<.2	<.2	12	8	9	552	0.48	0.05	1.77	0.13	0.02	0.04	601
S0002985	L600S 380E	2	<.5	<.2	23	<.4	65	<.4	14	73	<.1	10	28	3.53	<.2	72	5	<.5	67	<.2	<.2	12	4	9	342	0.78	0.08	1.87	0.19	0.02	0.04	697
S0002986	L600S 390E	2	5	<.2	21	<.4	56	<.4	10	67	<.1	10	55	2.7	<.2	99	<.5	<.5	48	<.2	<.2	10	5	7	207	0.75	0.08	1.7	0.24	0.03	0.05	622
S0002987	L600S 400E	<.2	5	<.2	34	<.4	79	<.4	13	129	<.1	16	56	3.48	<.2	135	<.5	<.5	77	2	2	11	6	8	435	1.21	0.15	2.22	0.35	0.02	0.08	827
S0002988	L600S 410E	<.2	6	<.2	19	<.4	49	<.4	11	75	<.1	7	25	2.32	<.2	53	<.5	<.5	49	<.2	3	9	5	7	226	0.59	0.05	1.5	0.18	0.01	0.06	863
S0002989	L600S 430E	<.2	<.5	<.2	34	<.4	56	<.4	16	92	<.1	7	23	1.89	<.2	64	<.5	5	62	<.2	2	12	9	10	133	0.57	0.05	2.04	0.17	0.01	0.05	789
S0002990	L600S 460E	3	<.5	<.2	18	<.4	53	<.4	11	128	<.1	13	38	3	<.2	81	<.5	<.5	54	<.2	<.2	11	10	9	241	0.79	0.09	1.87	0.21	0.02	0.04	527
S0002991	OATM-S-1	<.2	<.5	<.2	110	<.4	65	<.4	7	61	<.1	52	60	5.5	<.2	52	<.5	<.5	83	<.2	5	49	17	12	1212	1.44	<.01	0.58	2.94	0.02	0.05	444
S0002992	OATM-S-2	11	16	23	180	<.4	73	<.4	<.2	38	<.1	86	2010	6.52	<.2	421	5	5	37	2	2	11	6	4	857	E14.25	0.04	1.41	0.5	0.02	0.02	426
S0002993	OATM-L-1	40	6	5	123	<.4	69	<.4	11	58	<.1	32	42	5.52	<.2	71	<.5	<.5	117	<.2	4	22	9	9	907	2.4	0.15	2.6	0.91	0.01	0.1	851

Appendix VII

2000 Chemex and Cominco Labs Procedures



10 January 2001

To Whom It May Concern:

During the year 2000, the following analysis were conducted at Cominco's Resource Laboratory in Vancouver on behalf of Santoy Resources.

Gold, platinum and palladium by fire assay in addition to a multi-element I.C.P. package of 28 elements were performed on a total of 330 rock samples and 2028 soil samples. The analytical data are contained under these Cominco's E.R.L. job numbers:

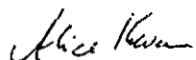
<u>Rock Samples</u>	<u>Soil Samples</u>
V00-0127R	V00-0120S
V00-0221R	V00-0222S
V00-0474R	V00-0475S
V00-0537R	V00-0534S
V00-0538R	V00-0535S
V00-0544R	V00-0539S
V00-0584R	V00-0542S
V00-0585R	V00-0543S
V00-0606R	V00-0575S
V00-0630R	V00-0583S
V00-0660R	V00-0586S
	V00-0607S
	V00-0629S

The I.C.P. analysis consisting of a multi-element package of twenty-eight elements were performed by Alice Kwan, Chemist I.

The assays were performed by Cominco's licensed B.C. assayer, Steven Clark. A photocopy of the Certificate of Efficiency is attached.

If you require any further information, feel free to contact us as noted in our letterhead.

Yours truly,



Alice Kwan, Chemist I



Steven Clark, B.C. Assayer

Att: Certificate
AK/SC/skw



Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

Certificate of Efficiency

This is to certify that

Steven Michael Clark

has qualified for efficiency in the practice of assaying and sampling, pursuant to the provisions of the Ministry of Energy, Mines and Petroleum Resources Act, and is privileged to practise as a licensed assayer in the Province of British Columbia.

Dated at the City of Victoria, in the Province of British Columbia, this *Twenty-fourth*
day of *May*, *1991*

A handwritten signature in black ink, appearing to be "John ...", written over a dotted line.

Minister of Energy, Mines and Petroleum Resources

Appendix VIII

2000 Geology and Sample Location Map

