2.32322.



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(REVISION)

## ST. ANTHONY / STURGEON LAKE - FALL 2005 Exploration Project Reports

for

## Mechanical Stripping, Prospecting & Diamond Drilling

- Addendum to Work Reports - W030.00760, W0430.01215 and W0530.01768

Beckington Lake (G.2532) and Squaw Lake (G.3140) Areas
Patrticia Mining Division, Ontario -30
Map Reference: 052 J/02 SE
Datum: NAD 83, UTM; 15

by

RECEIVED

JUL 1 0 2006

GEOSCIENCE ASSESSMENT OFFICE A. J. M. Mowat, C.E.T. & A. P. Pryslak, M.Sc., P.Geo.

(Report Revision March 6th, 2006)

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# SECTION A INTRODUCTION

#### INTRODUCTION

#### The Company:

Emerald Fields Resource Corporation (EFR) optioned a group of claims in the Sturgeon Lake area from the stares brother in 2002. The latest exploration program – 2005 - included prospecting, mechanical stripping and diamond drilling.

#### **Location and Access:**

The St. Anthony property of EFR lies on the eastern shore of the North Arm of Sturgeon Lake, Northwestern Ontario.

The north limit of the claims area lies approximately 5.6 km south of the main line of the CNR. Highway #599 passes along the west shore of the North Arm and connects with an east extending resource road known as Myers Vista Lake Road. This road passes within one km of the north boundary of the claim block. Other roads and trails, such as the St. Anthony mine road and the Mine Lake road had to be restored for access by skidders, dozer and ATV,s. (Fig. 1)

#### Property (Claims):

The property comprises of 19 contiguous un-patented mining claims. These are listed, as follows (a total of 206 –16 ha units or 3,296 hectares):

P.1245823	(4 units)
P.3001233	(15 units)
P.3001234	(9 units)
P.3001266	(15 units)
P.3001267	(6 units)
P.3001268	(9 units)
P.3001269	(15 units)
P.3001270	(6 units)
P.3001271	(9 units)
P.3001318	(9 units)
P.3001319	(9 units)
P.3001320	(14 units)
P.3001321	(16 units)
P.3001322	(15 units)
P.3001323	(15 units)
P.3002034	(14 units)
P.3001235	(7 units)
P.3001265	(4 units)
P.3002776	(15 units)

This block of claims are recorded in Patricia Mining Division – 30, located in Beckington Lake (claim sheet G.2532) and Squaw Lake (claim sheet G.3140) areas. Map reference sheet 052 J/02 SE. St. Anthony Mine site GPS co-ordinate 5552900 N by 666592 E, datum NAD 83, UTM 15 (Fig. 2).

#### **History of Exploration:**

The St. Anthony Mine production is recorded for 1902 to 1908 and 1934 to 1941, yielding 63,310 ounces of gold and 16,341 ounces of sliver from 332,720 tons.

Numerous shafts, pits and trenches exist on the property, including a number of stamp mills, indicating that most of this work for gold was conducted in the early 1900's. The next phase of exploration is recorded from the 1970 period after the Mattabi base metal deposit was discovered.

The exploration history is well documented by Trowell (1983) for the Ontario geological Survey (Reports No.221 and 227).

#### Geology:

The Sturgeon Lake area lies within the Superior Province of the Canadian Shield with lithologies of Archean age. Mafic metavolcanics are dominant with lesser felsic metavolcanics occurring along the trend of the Northeast Arm of Sturgeon Lake.

Gabbro intrusions are common within the porperty, intruding all phases of the metavolcanics.

The contact between the metavolcanic suite and the granitic batholith to the west approximately follows the east shoreline of the North Arm of Sturgeon Lake. The contact comprises of a mixture of granitic and metavolcanics over a zone of approximately 500 metres. Numerous faults, shear and alteration episodes define a very complex intrusive history of this contact zone.

by

A.P. Pryslak, M.Sc., P.Geo.

#### **ADDENDUM**

to

#### ST. ANTHONY MINE / STURGEON LAKE HISTORICAL REPORT

EFR has acquired a major gold property in the Sturgeon Lake greenstone belt of Northwestern Ontario. One focus of this property is the past gold producer known as the St. Anthony Mine. The property lies within the Squaw Lake Claim Sheet. Patricia Mining Division-30 consisting of 19 claim blocks totalling 206-16 ha units (3,296 ha). The property acquisition is by an option agreement with the Stares brothers of Thunder Bay, Ontario. The St. Anthony Mine recorded intermittent production from the period 1905 to1930, utilizing a stamp -amalgam milling process. Continuous production is recorded for the period of 1934 to '41; processing of the ore was by standard cyanide-leach mill. Total production is reported to be 332,720 tons at a grade of 0.19 oz/t Au. Final product figures are 63,310 oz of gold and 16,341 oz of silver. All production at the St. Anthony mine was from the No. 1 Vein. The zone was mined over a distance of 800 feet (245 m) at the -750-foot level. Mining widths varied from 6 (1.83m) to 25 feet (7.62m), averaging 12 feet (3.66m). Some development work was carried out to the -1000-foot level but the mine closed due to lack of skilled mining labour during the war. It is assumed that 250,000 tons of ore grading 0.20 + oz/Au/ ton (50,000 + oz) lie between the -750 and -1000-foot level. Still open on strike and to depth.

Two additional zones lie in close proximity to the mine workings, the No. 2 Vein and the Diorite Zone. The No. 2 Vein lies about 400 feet (120 m) to the west of and parallels No. 1 Vein. Significant intersection values from this zone include: 0.37 oz/t Au over 5.5 ft (1.68 m), 0.50 oz/t Au over 5.3 ft (1.62 m), 0.20 oz/t Au over 17.8 ft (5.43 m) and 0.43 oz/t Au over 15 ft (4.58 m). The deepest intersection is at -600 ft (183 m). The Diorite Zone (carbonated tuff horonizon?) is located to the west of the No.1 Vein. Significant drill intersections include: 0.58 oz/t Au across 2.0 ft (0.61 m), 0.40 oz/t Au over 4.0 ft (1.22 m) and 0.17 oz/t Au over 8.1 ft (2.47 m). There are three other significant gold deposits outside the mine area but within the outlying claim group. Deposit No. 15, North Couture Lake area, was worked on in 1936 to '38 and is reported as a 50-foot (15.24 m) wide zone of intense carbonate-sericite alteration with quartz veining. Work included the sinking of a shaft to a depth of 175 feet (53m). The best assay reported was 17.1 oz/t Au. There are no records indicating that any drilling has been carried out on this zone. Deposit No. 16, the Camp Vein, was discovered in the early 1900's and was examined by a series of shallow shafts. Re-sampling in 1935 and again in 1941 returned values of 1.0 to 1.3 oz/t Au, respectively.

The Dawson Zone (Deposit No.21) consisted of a 3 to 4-ft (1.0 to 1.3 m) wide quartz vein that was bulk tested by a 70-foot (21 m) long trench in 1902. The stamp mill processed 225 tons of ore assaying 0.84 oz/t Au: tailings assayed 0.21 oz/t Au. An average grade of 1.39 oz/t Au over a width of 3.7 feet (1.13 m) and a length of 60 feet (18.29 m) is reported. Highlights of a 1983 shallow drill program included 0.49 oz/t Au over 3.75 ft (1.15 m) or 0.17 oz/t Au across 11.75 ft 3.59 m) and 0.26 oz/t Au over 4.5 ft (1.38m). Workings were noted to have a moderate plunge to the north where no drilling has been carried out.

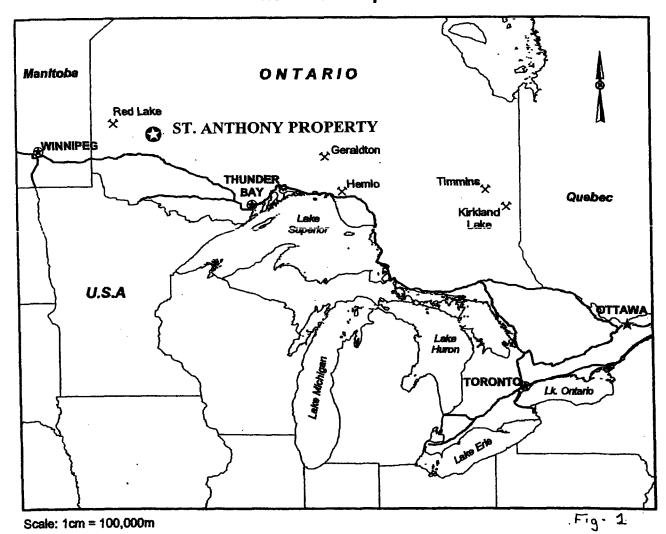
The gold deposits and showings of the Sturgeon Lake area have been largely under-explored. The high grade nature of some of these deposits makes them attractive exploration targets. The carbonate-sericite-sulphide zone described as Deposit No. 15 could lead to an economic gold

deposit.

Some of the styles of gold bearing systems found in the area are simple vein, silicified zones and carbonate-sericite shears. The latter two styles hold potential for hosting large gold deposits. In the 1983 drill records and report filed for Aubet Resources, it is noted that some of the original assays were re-run. The assay values from the re-runs in many cases dramatically improved previous results. Example, values on one sample from drill hole 83-5 were 0.056, 0.049, 0.99, 0.97 and 0.14 oz/t Au. The variability is attributed to the free state of the gold and its nugget distribution in the host rocks. One needs to be mindful of this style of gold mineralization when re-interpreting old data or assaying samples in the future. Also, one has to keep in mind that the gold probably (example: Deposit No.21 - Dawson Zone) has its own structural orientation within the various hosting zones.

Further, in 2002, the Kenora resident government geologist staff took 24 rock samples (\$A 01 to -23) in and around the \$t\$. Anthony Mine site. Rock samples were taken from quartz porphyry, granodiorite, quartz veins, basalt and tuff units - altered and unaltered. All samples returned anomalous gold values. The lowest was 0.16 g to 44.90 g/t Au. For interest, on averaging these samples, a value of 3.89 g/t (0.12 oz) or \$42/t Au is obtained. Discounting the two highest assays of 44.90 and 23.28 g/t, averages 1.14 g/t (0.04oz) or \$14/t Au.

## Emerald Fields Resource Corporation ST. ANTHONY PROPERTY Location Map



MINISTRY OF HORTHERN DEVELOPMENT AND MINES PROVINCIAL MINING RECORDER'S OFFICE

Mining Land Tenure Map

Date / Time of Issue: Fri Aug 26 12:33:28 EDT 2005 PLAN TOWNSHIP / AREA **BECKINGTON LAKE AREA** Emereld Fields Resource Corporation

G-2532 ST. ANTHONY / STURGEON LAKE

**ADMINISTRATIVE DISTRICTS / DIVISIONS** 

Mining Division Land Titles/Registry Division

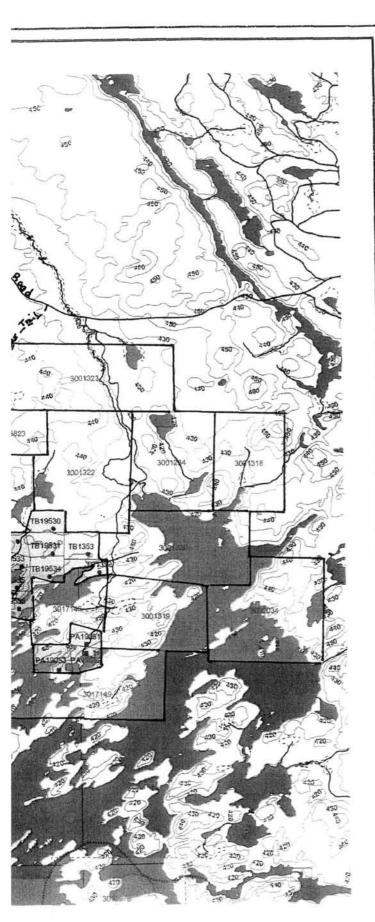
Ministry of Natural Resources District

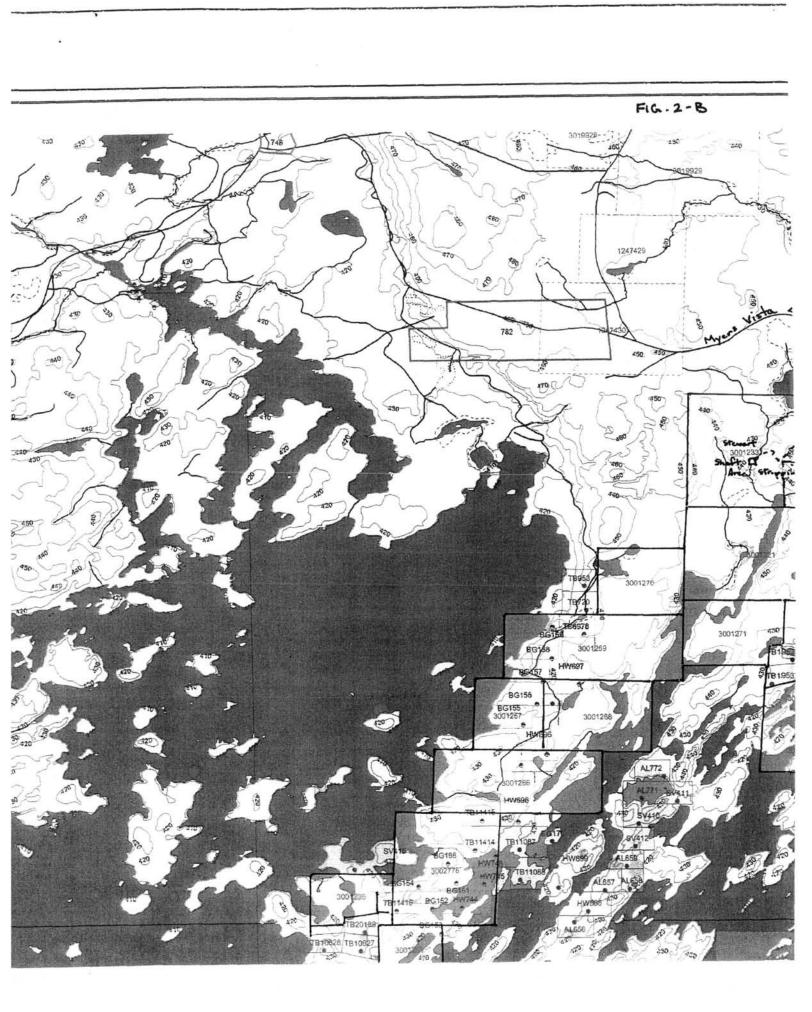
Patricia THUNDER BAY DRYDEN

2.4km

Land Tenure TOPOGRAPHIC Freshold Parent Surface And Mining Rights . Surface Flights Only • . Mining Rights Only Leasahold Fete Surface And Mining Rights . Cliff, Pit & Pile Surface Rights Only = Mining Rights Only \* Licence of Occupation Uses Not Specified 7 Surface And Mining Rights + Surface Rights Only Mining Rights Only . Natural Gas Pipulins Order in Council (Not open for staking) œ Water Power Lease Agreement 100 Mining Claim Filed Only Mining Claims 1234567 LAND TENURE WITHDRAWALS Areas Withdrawn Irom Disposition Mining Acts Withdrawal Types Surface And Mining Rights Wilne Surface Rights Only Wilnerson Laning Rights Only Wilnerson IMPORTANT NOTICES

FIG. 2-A





# SECTION B MECHANICAL STRIPPING REPORT

#### MECHANICAL STRIPPING

#### **SUMMARY**

PROJECT / PROPERTY NAME: St. Anthony / Sturgeon Lake

LOCATION: - Patricia Mining Division, Ontario - 30

- Beckington Lake G.2532) and Squaw Lake (G.3140) Area - UTM (GPS) co-ordinate referenced to St. Anthony Mine Site:

5553000 N by 666500 E (NAD 83 - Zone 15), mining claim # P.3002776

RECORDED MINING CLAIMS: 19 contiguous un-patented mining claims totalling 206 units x 16 ha/ unit = 3.296 hectares. Refer to this report's

"Introduction" for the detail claim discription.

MINERAL COMMODITIES: Gold (Au) and VMS style (Cu, Zn, Au)

**CLAIM STATUS:** Active

HISTORY: Refer to this report's "Introduction" with attached Addendum.

ACCESS: There are two primary (paved) road systems into the St. Anthony project area. They

are: 1/. Hwy # 599 north-east of the Town of Ignace on Hwy # 17 and

2/. Hwy # 72 from the community of Dinorwic (east of Dryden and west of Ignace) on Hwy #17 to the Town of Sioux Lookout. Continuing easterly, # 516 to the CNR line community of Savant Lake which also connects Hwy # 599. This town lies northwest of EFR's property. At this time, boat access is required from landings on the west side of Sturgeon Lake. There is some trail access from the north depending on tree blowdown.

SURVEY TYPE: Mechanical stripping by 2 Timber Jack bladed skidders and a D-6 bulldozer.

STRIPPING PERFORMED BY: Two crews were contracted: (1) Contractor Mr. David Latto from Savant Lake, Ontario with Skidder and D-6 and the (2) crew from the community of the Savant Lake (Little Pashkokogan River) Reserve. Contractor Chief Edward Machimity supplying a Skidder and chainsaw cutters.

DATE OF WORK: September 20th to October 24th, 2005

STRIPPING SUPERVISION: Field and project supervisor, Mr. A.P. (Tony) Pryslak, M.Sc.,

P.Geo., geological consultant

PURPOSE OF THE SURVEY: To re-evaluate the historical gold reported sites by mechanical

overburden stripping to bedrock followed by rock sampling.

The primary objective was to re-open the old St. Anthony Mine Road and stripping the selected Au occurrences on- route. From Fig. 2, access to this first trail system is gained by a seasonal gravel road (#700 - Myers), east off of Hwy #599 (MTO crew base lies on the north side and south of the Town of Savant Lake). Travel east for about 1 km then turn right going SE towards the Savant Lake airstrip. A distance of 1.8 km. At this location, the road divides. Take the right road, drive about 2.4 km to a sand and gravel pit. This is the take off point/ trail south to the St. Anthony Mine. The overgrown route follows along the east shore of the North Arm of Sturgeon Lake.

The second trail system / target area is accessed by turning left at the airstrip junction (Myers Vista Lake Road) - right is to St. Anthony - drive east about 5.6 km. A new skidder trail lies on the south side back about 400 m west of Beckington River. This trail goes to the Stewart Shaft stripping area. A distance of 1.5 km. See FigM-4 and M-5.

The original contractor for this job was Mr. David Lotto; however, due to the extremely slow progress, a second contractor Chief Edward Machimity had to be brought in. Access difficulties into these both areas was exasperated a two fold high wind 'tree blow-down' that occurred during the mid-summer of 2005. The downed timber was large mature growth of Jack Pine and/or Poplar. Two skidders, one bulldozer and chain saw cutters had to be employed to access the selected target areas. Due to the labor intensity of man and machines, only half of the designated sites were reached and stripped (not washed).

Following is a summary of contracted stripping days for all parties:

A/. Crew - Contractor Mr. David Lotto (Skidder and D-6 operator) -

Dates: September 20<sup>th</sup>, 26<sup>th</sup> to 30<sup>th</sup>, and October 1<sup>st</sup> to 7<sup>th</sup> and 10<sup>th</sup> to 24<sup>th</sup>, 2005. A total of 28 days.

B/. Crew - Contractor Chief Edward Machimity (supplying 3 personnel, Skidder and chain saws)-

1/. John Sapay (skidder and chain saw operator)

- Skidder dates: September 22nt to October 16th, 2005.

A total of 19 days and

- Chain Saw cutting dates: September 23<sup>rd</sup>, 26<sup>th</sup> to 27<sup>th</sup>, 2005.

A total of 3 days. Combined 22 days.

2/. Jonah Belmore (chain saw operator)

Date: September 22<sup>nd</sup> to October 8<sup>th</sup>, 2005.

A total of 14 days.

and 3/. Peter Machimity (chain saw operator)

Date: October 12th to 24th, 2005.

A total of 12 days.

#### Summarization:

Skidder x 2 = 32 productive days + 4 days for 2 machines mob &

demob (floating)

D-6 Bulldozer = 9 productive days + 2 days of mob and demob

Chain Saw Cutting x3 = 29 days

Referring to Mr. Pryslak's map Fig. M - 5 (scale to 1:10,000 metric) 'Dawsom Shaft

Area'- going south to St. Anthony Mine site, three sites were mechanically cleared on and around the Dawson - White shaft area, Fig. M-2 and M-3, scale 1: 1,000 m. All 3 stripped areas are located on Emerald Fields' recorded mining claim P.3001269, about 300 m north and 150 east of the #3 witness post.

Fig. M-2 has two stripped sites north and south as DAW-A and DAW-B, respectively. The GPS central co-ordinate for DAW-A is 5557050 N by 667450 E. This area of stripping is about 150 m (north - south) by 40 m (east - west) is 6,000 sq. meters. DAW-B located at co-ordinate 5556900 N by 667400 E is about 30 m (north - south) by 20 m (east - west) is 600 sq. m. DAW-C stripped site is just south of DAW-A & B at co-ordinate 5556800 N by 667500 E, Fig. M-3, scale 1:500 metric. The cleared area is approximately 58 m (north - south) by 40 m (east - west) for 2,300 sq. m. Total area stripped for theses Dawson - White sites is 8,900 sq. metres or 0.89 hectares.

The 2<sup>nd</sup> area was Stewart Shaft. Referring the Fig.M-5, scale 1:1,000 metric there are two stripped sites, STEW - 'A' co-ordinate 5560380 N by 6698050 E and STEW - 'B' & 'C' at 5560500 to 5560530 N by 669840 E. All sites on EFR's mining claim # P.3001233. Areas cleared as follows:

```
STEW - 'A' is 25 m (north - south) by 12 m (east -west) = 300 sq.m,

- 'B' is 20 m (north - south) by 10 m (east - west) = 200 sq.m and

- 'C' is 25 m (north - south) by 15 m (east - west) = 375 sq.m
```

For this area, a total of 875 sq. m or 0.09 hectares. Combing this with the Dawson - White the total stripping is 9,775 sq. metres or 0.98 hectares.

All the stripped areas were geologically mapped by Mr. Pryslak and sampled by prospectors Mss. Katarina and Ruth Bjorkman.

Report revised by: A. J. M. Mowat Kenora, Ontario

March 2006

#### MECHANICAL STRIPPING REPORT

Several sites were chosen for mechanical stripping based on research of historical documents (assessment files). The first site was selected around the Dawson Shaft and the second site around some of old trenches south of the Contact and Stewart Shafts. Old roads (trails) were refurbished for skiddar / cat access.

Most of the recorded exploration around the Dawson Shaft has been to the south of the shaft. The main stripping area (Fig. M-1), Daw-A, was carried over in the area immediately to the north of the shaft. A smaller area, Daw-B (Fig. M-2) was completed in the area to the south. These areas cover approximately 6,600 and 600 square metres of area, respectively. The third area is centered approximately 150 metres SE of the shaft where several old pits had uncovered some quartz veining associated with carbonate alteration along shearing. This third section covers an area of about 2,300 square metres.

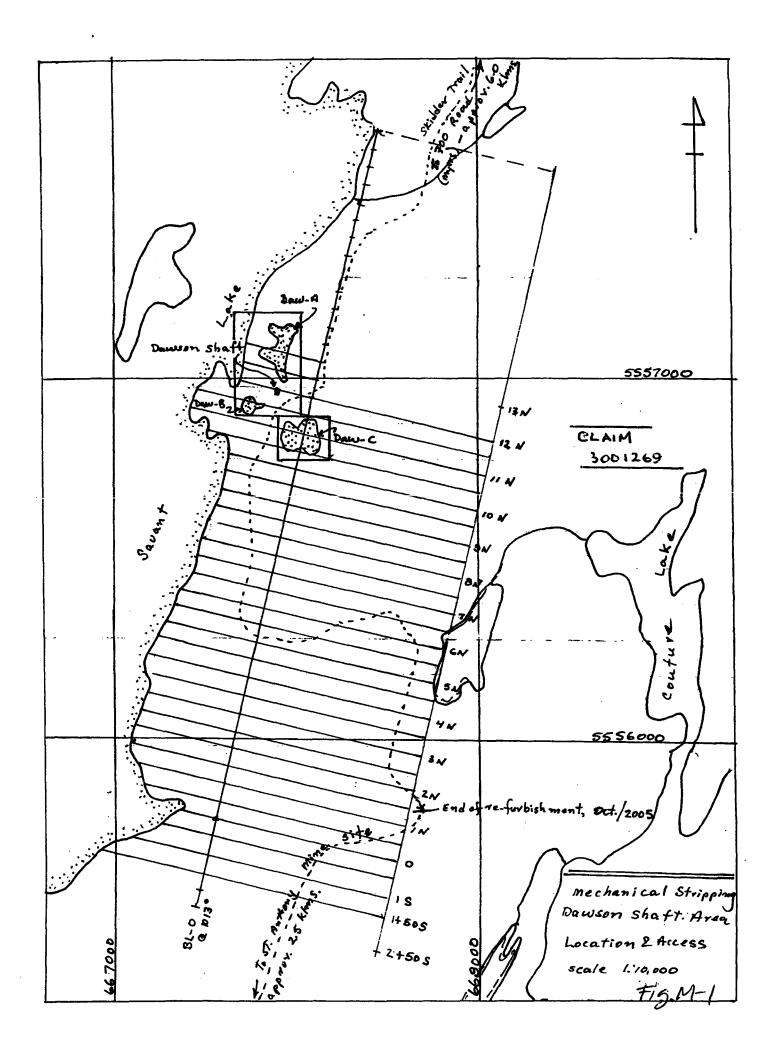
The main shaft is located on grid line 12+00 N and 1+00 W, 45 metres east of the open cut and inclined shaft that represent the surface trace of the main gold zone. The Daw-1 stripped area uncovered a 2.5 metre wide section of quartz veining within the granodiorite. This may represent the extension of the main zone but it lacks any sulphide content common with the main zone. The strip area south of the inclined shaft uncovered a 0.5 to 2.0 metre zone of rusty weathering quartz at 1+35 W on L 11+50 N. This is likely the extension of the main zone.

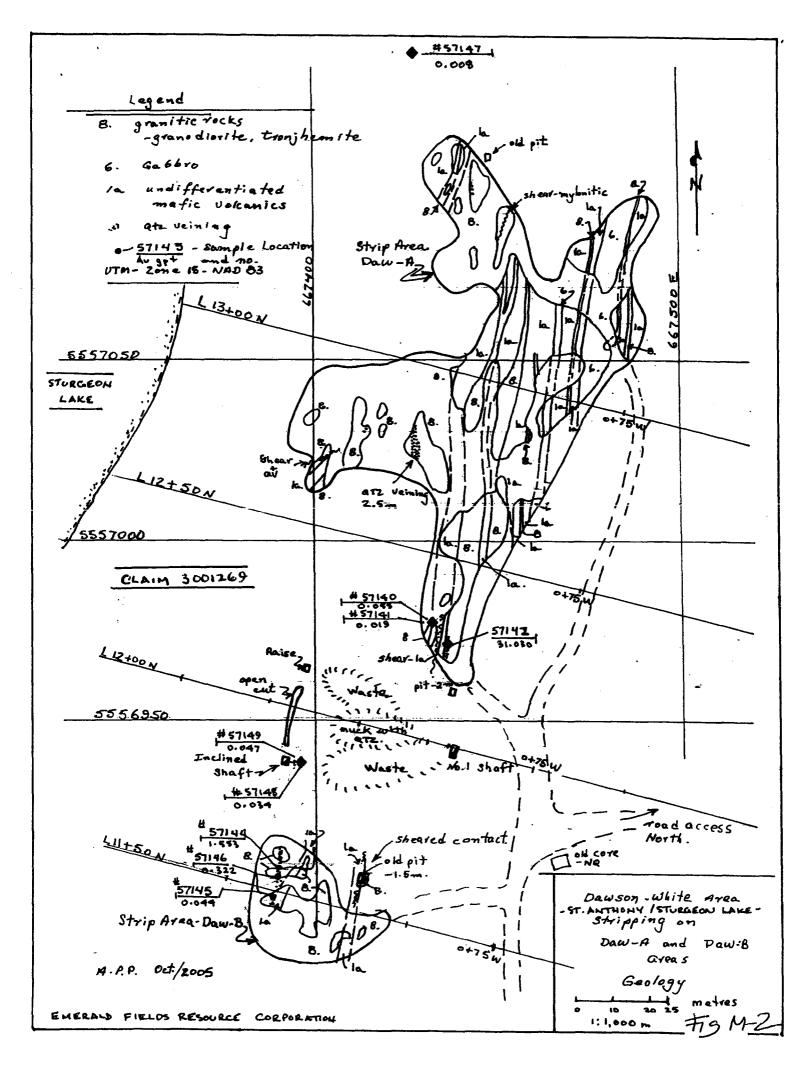
The Daw-C stripping (Fig. M-3) uncovered a number of quartz veins and shears. The veins in the central portion of the stripped area have a major ankerite component.

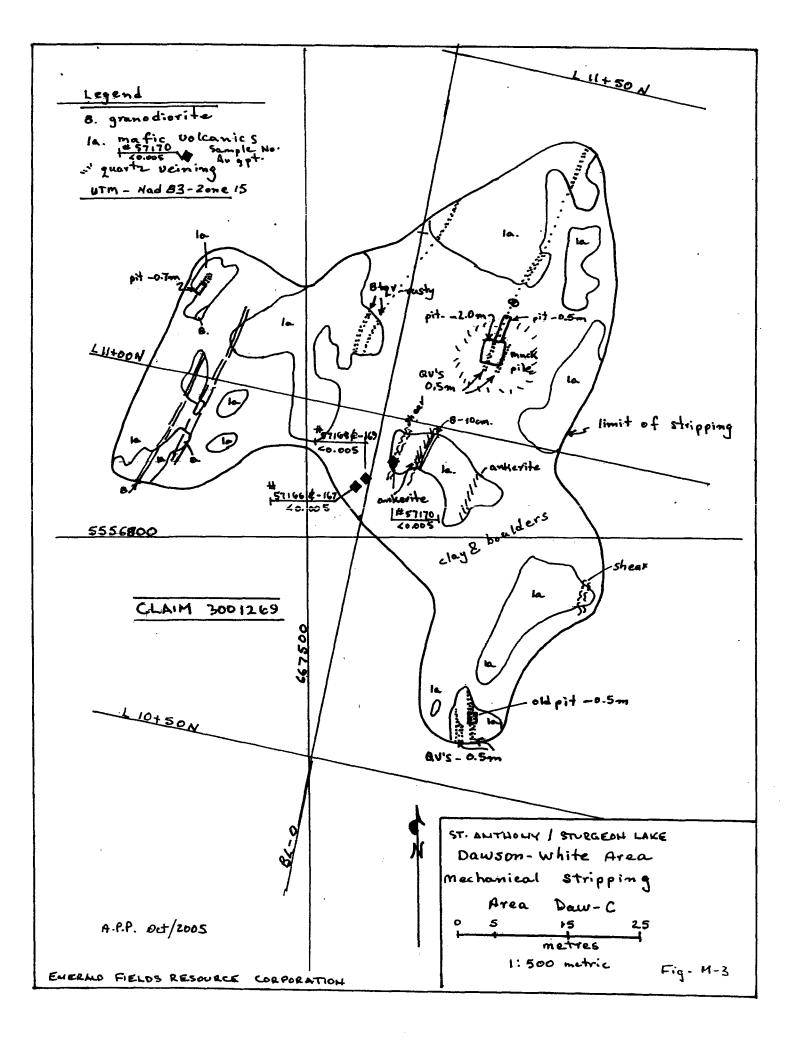
Work by Candore Explorations in 1983 in the vicinity of some old shafts located 600 metres west of the Mine Lake, identified some old workings as the Stewart and Contact Shafts. Samples of veining from these two shafts assayed only trace for gold. However, three samples from a pit located 175 metres south of the Stewart shaft assayed 0.81, 0.30 and 0.56 ounces per ton gold. This pit was located by prospectors and three small areas were stripped by skidder (Fig. M-4, M-5).

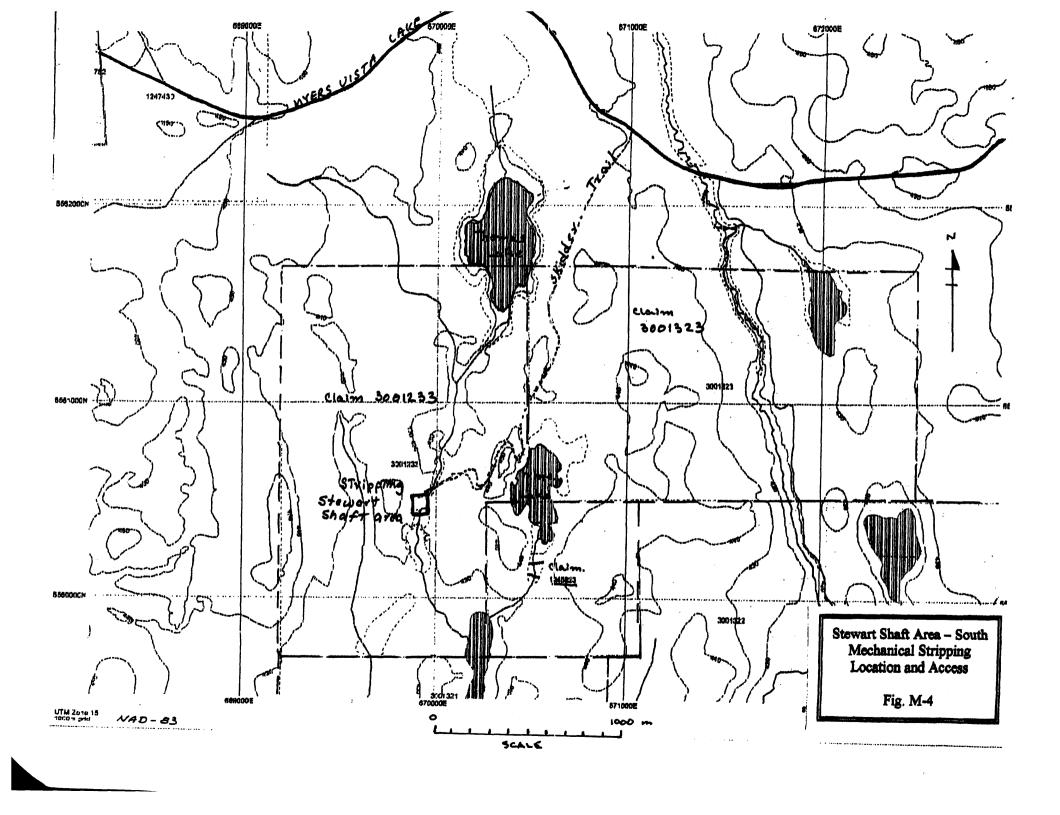
The vein exposed in old pits is 0 to 40 cm in width and is well mineralized with pyrite, pyrrhotite and minor chalcopyrite. The vein trends N-S and dips 40 degrees East. It occupies a narrow shear in gabbro and the sulphides extend into the gabbro derived schist.

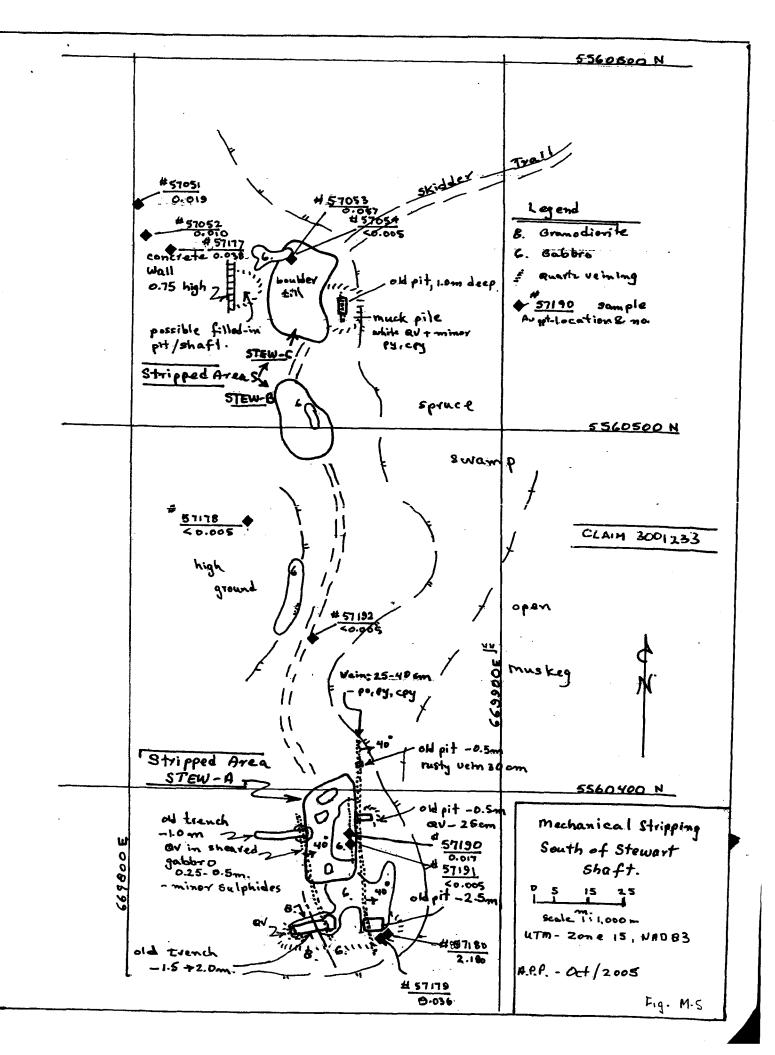
Another old pit located 10 to 20 metres west exposes a grey granodirotic intrusive. The contact with the gabbro to the east is fractured and brecciated, the annealed by quartz and minor pyrrhotite. This maybe the extension of the historic contact vein to the north.











# SECTION C PROSPECTING (SAMPLING) REPORT

#### **PROSPECTING**

#### **SUMMARY**

Refer to the 'Mechanical Stripping' report concerning **Project / Property Name** to **Access.** Regarding this program, a boat was used to ferry the prospecting crew from Whiskey Jack Lodge - just east off Hwy # 599 and south of Savant Lake - on the west shore of Sturgeon lake. The boat was used to access the Dawson - White and St. Anthony Mine sites. A 4 x 4 truck, quad and walking into the other sites of Couture Lake and Stewart Mine showings.

SURVEY PERFORMED BY: Prospectors Mss. Katarina and Ruth Bjorkman, Box 1814, Atikokan, Ontario P0T 1C0

SURVEY TYPE: Rock sampling.

TOTAL NUMBER OF ROCK SAMPLES: 202

ANALYSIS PERFORMED BY: Accurassay Laboratories, 1046 Gorham Street, Thunder Bay, Ontario P7B 5X5

**SAMPLE ANALYSIS:** Gold (Au) reported in ppb, oz/t and g/t (ppm)

SAMPLING METHOD(S): Refer to enclosed 'Sample Method Report'

PROJECT / PROGRAM SUPERVISOR: Mr. A.P. (Tony) Pryslak, M.Sc., P.Geo.

DATE OF SURVEY: October 3<sup>rd</sup> to 8<sup>th</sup> and October 11<sup>th</sup> to 22<sup>nd</sup>, 2005

TOTAL SURVEY DAYS: 18 days (17 field days). Daily time sheet (Appendix 'A').

DATE OF REPORT: (Revision) - March 8th, 2006

PURPOSE OF SURVEY: To collect rock samples from the historical mine sites and showings occurring on Emerald Fields' property. The located sites were GPS recorded with a brief rock description.

RESULTS: Over a 17 day field period, 202 rock samples were collected, tagged and shipped in 2 separate batches to Accurassay Laboratories, Thunder Bay, Ontario by Greyhound Bus - sample # 57001 to #57192 and # 57201 to # 57210. All samples are UTM coordinated and described with assays results. The data recorded on a 7 page spread sheet (Appendix 'B'). For verification, Accurassay 'Certificate of Analysis' - 11 pages - is enclosed

(Appendix 'C'). Included is a 'generalized sample location plan' - Fig. 1. Rock samples were taken from the following 10 claims: P.1245823, P.3001233, P.3001266 to P.3001271, P.3001233 and P.3002776.

#### **HIGH LIGHTS**

- 1/. Regarding 'Mechanical Stripping': a). Nine samples were taken from the Dawson-White Sample #57140 to 142 and #57144 to 149. The two highest assays are #57142 @ 31.030 g/t Au and # 57144 @ 1.553 g/t.
- b). Five samples from Dawson White South site (Fig. M-3) . Sample # 57166 to 170. They all assayed  $\!<\!0.005\,$  g/t Au.
- c). From the Stewart Shaft area (Fig. M-5) , 11 sample were removed, # 55051 to 054, 57177 180 and 57190 to 192. The highest gold assay was from # 57180 @ 2.180 g/t.
- 2/. Some of the interesting assays from the (a) St. Anthony Mine area (Fig. P-1 & ) @ 5.160, 3.911, 40.968, 2.277, 2.224, 178.470 and 140.577 g/t Au. (b) Camp Vein (Fig. P-11) @ 10.283, 26.005, 380.718 and 310.685 g/t Au. (c) Triplex Vein ran 3.231 g/t Au (Fig. P-7). (d) Couture assayed 2.258 and 3.138 g/t Au (Fig. P-8). (e) Riviere assayed 3.979 g/t (Fig. P-11). (f) South of the Dawson White ran 3.740 g/t Au. and (g) the Dawson White 399.386 g/t.

The sampling and corresponding Au analysis is in process of computerization which will include the 2005 line cutting and geological mapping, etcetera. The final interpretative report and maps are being prepared.

Report Revision By: A. J. M. Mowat Kenora, Ontario

March 8<sup>th</sup>, 2006

#### PROSPECTING SHORT REPORT

#### By Katarina Bjorkman

During October 3<sup>rd</sup> 2005 and October 22<sup>nd</sup> 2005, Karl Bjorkman Prospecting completed an18-day prospecting contract for Emerald Fields Resources on their claims in the Squaw Lake Area and Beckington Lake Area. Prospectors Katarina Bjorkman and Ruth Bjorkman worked as a team to locate and resample historic showings, and later to outline and supervise the mechanical stripping of prospective rock outcrops along the Dawson trend and the extension of the Stewart and Contact veins.

The prospectors stayed at Whiskeyjack Lodge on Sturgeon Lake, and commuted to the property by either an 18km boat ride or by truck north along Hwy 599, east on the Vista Road and then south by ATV on the newly opened summer drill road.

The primary objective was to locate and resample historic showings. We found most showings to be at or near a major mafic/felsic contact, and all within quartz veins and associated with pyrite and black sphalerite mineralization. The St. Anthony Mine was in production for gold in the early 1900s and was the first area we visited. We sampled a cross section of the No. 1 Vein at three areas: the No. 1 shaft, the incline shaft and the north shaft. Between five and six 2m chip samples were taken across stratigraphy at each location, and two to four chip samples at the other shafts. The host rock was a quartz porphyry or granite with quartz stock work on strike with foliation; with mainly weak to strong sericite alteration and minor carbonate alteration in places. Cubey iron pyrites were the prevalent mineralization along and in the quartz veins, and often locally massive in veinlets and blebs. Brown and black sphalerite were found in the main vein as well as occasional galena. In the main shaft, gold was found near the side of the 3m vein. The visible gold was close to stringers of black and brown sphalerite.

We spent the most time prospecting the Dawson Zone, north of the St. Anthony area. The Dawson vein is at the contact with mafic rock to the east and felsic intrusive on the west side. The vein is white, with little mineralization in the waste rock. However, there was pyrite and black sphalerite in quartz veins in pits further south. There were numerous trenches south of the main shaft so it was decided to focus to the north. We located and flagged areas to be stripped by a bulldozer and did general prospecting to the north and east along the La Riviere Zone.

West of Mine Lake at the north end of the property we flagged a road in to access the Stewart and Contact shafts. The shafts were located, sampled and flagged off. Prospecting was carried out to determine areas to be mechanically stripped and further sampled south along the mineralized trend. A prospector supervised the stripping done by skidder.

We located and sampled the Camp Vein, 100m west of Couture Lake, and the Couture Lake North Vein. The Camp vein strikes approximately E-W, unlike the other areas visited, and sits within green schist. The vein is 50cm wide and well mineralized with black sphalerite and chalcopyrite. Ruth found two nice specimens with visible gold. The Couture Lake Main shaft is covered with concrete slabs, so we sampled the waste and the extensive system of trenches and pits. We found the rock to be strongly sheared fine-grained mafic, with pervasive carbonate and blue-grey quartz veins. The area was well mineralized with locally massive sulphide veins grading down to 1% disseminated sulphide. Drill collars and front sites were set up at both the Camp and Couture Lake North Veins in preparation for the helicopter drill program.

The triplex veins, located 20 meters east Thomas Lake at the north end of the property were sampled by chip and grab samples across stripped outcrop and old trenches. We found fine-grained mafic rock, strongly sheared and at times crenulated with strong, pervasive carbonate alteration east of and within the veins. To the west (lake side) was a QFP, with blue quartz eyes. The veins we seen were anastamozing and boudinaged with sporadic mineralization of mostly blocky iron pyrites. There were some mineralized shear zones with semi-massive fine pyrite, pyrrotite, chalcopyrite, and pentlandite. The mafic rock had between 1-5% pyrite/pyrrotite disseminated throughout.

#### APPENDIX 'A'

#### DAILY LOG OF PROSPECTING ACTIVITIES Emerald Fields Resource Corporation

- St. Anthony / Sturgeon lake Fall 2005 Program -

Type of Survey: Rock Sampling (GPS sample location established)

<u>Date</u>	<u>Description</u>
Oct. 3, /05	- Travel by truck from Atikokan, Ont. to Savant Lake. Set-up base at Whiskey Jack Lodge. The lodge is located east of Hwy # 599 on the west shore of Sturgeon Lake. About 15 km west of Emerald Fields's property. Meet with Project manager, Mr. Pryslak regarding exploration program.
4	- Boated across Sturgeon Lake from lodge to the St. Anthony Mine site landing. A traveled distance of about 15 km. Took trail to the mine site. Collected 18 rock samples # 57001 to -18. Returned to lodge.
5	- Return to mine area. Collect another 4 samples # 57019 to -23. Returned to base.
6	- By truck drive around to the Stewart Shaft trail. By quad and walking go to the Triplex showing. Collect samples # 57024 to -042 - 24.
7	- Return to the area noted above. Visited and collected rock samples up to Stewart Shaft. 12 samples taken #5 7043 to -054.
8	- Return to St. Anthony and collected additional samples. Went north by boat To the Bucke Shaft. 17 samples, in total, were collect. # 57055 to - 071. Returned by boat to lodge. Packed the remaining samples and dropped off on route to Atikokan. Sample - batch #1- shipped to Accurassay Lab., Thunder Bay for processing.
11	- Returned from Atikokan to Whiskey Jack Lodge.
12	<ul> <li>Went to Couture Lake and took 18 samples # 57072 to -099. Returned to Lodge.</li> </ul>
13	- Returned to the west shore of Couture Lake and collected 2 samples north of a river flowing into Couture. Traveled south to the Camp Vein and collected additional samples. Total for the day was 11, # 57100 to -110.

Returned to Lodge by boat.

14	- Went to the Riviere showing. Grabbed 5 samples # 57111 to -115. Walked
	north and collected another 8 samples on route # 57116 to -123. Returned
	to Lodge.

- By boat returned to the Dawson-White area, north of the St. Anthony. 12 samples gathered # 57124 to -135. Returned by boat.
- 2<sup>nd</sup> day back to Dawson-White collected 4 samples # 57136 to -139.
- 17 3<sup>rd</sup> day collected an additional 10 samples around the area # 57140 to -149.
- Went north of the Dawson-White mine and collected 6 samples working our way along Sturgeon L. Shore starting at GPS co-ordinate 667685 E by 5557519. A total of 22 samples collected # 57150 to -171.
- By trail and traversing starting at GPS 670488 E by 5561059N, collected 18 samples # 57172 to -189.
- Returned by boat to the St. Anthony Mine area and collected an additional 13 rock samples # 57190 to -192 and# 57201 to -210. Returned to Lodge. Pack samples batch # 2 and returned to Atikokan dropping samples on route to Accurassay, Thunder Bay. End of contract.

#### Summary

- A total of 202 rock samples were collected over a 17 working field period by two. Two batches of samples were shipped for Au analytical analysis to Accurassay Laboratories in Thunder Bay.
- Totaled truck mileage recorded is 2,599 km
- Estimated boat travel is 420 km
- Estimated land traversing is about 114 km

Signed: "Katarina Bjorkman"
"Ruth Bjorkman"

Licenced Ontario Prospectors

### APPENDIX 'B'

St. Ant	hony		•	Property: Prospecting Sample I	Descriptions Fall 2005		<u> </u>	ļ			Assau
	GPS Loc				188)	Alteration	Strike	Magnetic	Comments	Туре	1-14
Sample #		Easting	Northing	Rock Type	Mineralization	ser, min carb			Loose-local	grab	5.760
57001		666634	5552895	Qtz knob in sericite schist. 70% qtz.	semi-msv py in schlst	ser, min carb	50			2m chip	3,911
57002		666636	5552883	70% QV through mg'd Quartz-Porphyry	min-10% py cube py; loc sphal	ser, min carb, rust fracts	<del> </del>		along shaft	2m chip	0.05
57003		666631	5552889	60% QV through mg'd QP schist	1–4% blocky py		<del> </del> -		along onar	2m chip	0.20
57004		666634	5552890	60% QV through mg'd QP schist	3-4% bleby cutie py	ser, min carb, rust	├──		above stope		40.96
57005	15U	666631	5552883	80% QV through mg'd QP schist	5-15% cube py, gai? Sphal?	ser min earth	<del> </del>	<b> </b>	above stope	2m chip	0.09
57006	15U	666626		70% Qtz in QP	min-1/2% cube py	ser, min carb	25		<del> </del>	2m chip	0.07
57007	15U	666635	5552898	25% Qv in QP	min cube py	ser	20	<del></del>	Loose-local	from dump	
57008	15U	666638	5552900	50% Qtz, 50% QP schist	.5% cube py loc galena	ser	<del> </del>		Loose-local	from dump	
57009		666645		95%qtz, 5% QP; clear qtz	1-15mm cube py	ser	<del> </del>	ļ	Loose-local	from dump	
57010		666651	5552903	80% qtz, 20% QP	2% cube py; loc gal, sphal	ser	├		Loose-local	from dump	
57011			5552903	40% QV, 60% QP	15% msv py; 1-3% py in QP	ser	<del> </del>			from dump	
57012			5552901		Sphal, gal?	red-orange	<del> </del>		LOUSE-IOCAI	2m chip	0.00
57013		666635	5552969	Mgr'd QP	min cube py	min ser, min carb	<del>                                     </del>		<del> </del>		0.121
57014		666631	5552969	QP with 30% qzt stockwork	min diss py	ser	<del> </del>		<del> </del>	1.7m chip	0-053
57015		666629	5552974	85% QV in QP	min py	min ser, rust fracts	<del>                                     </del>			1.5m chip	0.390
57016		666622		85% Qtz in QP	min py, black sphal	ser, rust		ļ		grab	0.119
57017		666625		QP with 30% qzt	min cube py, black sphal	ser, rust					1.225
57018		666627	5552965	QP with 60% gzt	min cube py, black sphal	ser, rust				grab	
57019		666476	5552792			red-rusty				chip	0.616
57020		666453	5552800	Granodiorite, 20% QV	1% py	ser					0.0.73
57020		666448		Granodiorite, 20% QV	1% py	ser					0.00
57021		666443		Sugary Qtz		red					0.045
57023		666445		Sugary Qtz		red					0.184
57023		670560	5581024	12" Carb vn with 1-2mm qtz vns x-cutting and aing sk					Triplex Vns		KO.00
57024		670560	5581022	2-5cm anast. QV in cren, sh'd fgr'd maf	min py along edges	str perv carb			south strip		KO . 00
		670567	5581030	Fgr'd maf, v. dark, strly sh'd	5-10% f-m py diss + in bands	perv carb	340			_	0.007
57026 57027		670560	E581020	5-10cm Carb vn In maf	py conc by maf seams, tr cpy					0	< 0.00
		670566	EE81022	Fgr'd fels volc; sh'd; 1-2% blue qtz eyes	min diss py	str perv carb					<b>€0.00</b> 5
57028		070500	5501922	4cm Q-C vn x-ing forn in QFP?, blue qtz eyes	tr cpy	carb					<0.00S
57029	150		5501929	Sh'd QFP with Qtz stockwork, 1.7mm mica xtais	min f. diss py along QC vn, tr cpy	perv carb			in pit		0.005
57030 57031	150	670557	5561929	4-Bcm Q-C vn in sh'd fgr'd mafic.	tr-min py	chl				grab	0.031

St. Ant	hony	٠.		Property: Prospecting Sample	Dood i para i i i i i i i i i i i i i i i i i i						Assa
	GPS Loc				Mineralization	Alteration	Strike	Magnetic	Comments	Type	Avy /+
Sample #		Easting	Northing	Rock Type	1% f. diss py	chl, ser				grab	0.016
57032		670558	5561942	Q-C vn in fels schist, 2-5% blue qtz eyes; 50% QV	min-1% f. diss py	chl, purple colour				grab	<b>40.00</b>
57033		670558	5561942	For'd fels schist with 5% blue qtz eyes	msv + semi mav py bands	carb	345			grab	3.231
57034		670556	5561947	7 cm fels voic shear, silicious	tr py	carb. ser				grab	0.090
57035	15U	670552	5561943	40cm QV with maf seams and incl.	min+ diss py along mica, maf	carb				grab	0.041
57036	15U	670554	5561946	Q-C vn ln maf schist	5-10% py	rust			north strip	grab	0.071
57037	15U	670542	5561959	Schist w. sulf band	chunky py	rust				grab	0.011
57038	15U	670540	5561959	30 QV anastomosing	semi-msv sulf in layers	rust	320			grab	0.261
57039		670544	5561951	Schist w. sulf band		1000	320			grab	0.017
57040		670546	5561954	30cm Carb vn w. 30% qtz stgrs + blobs, 5% maf incl	loc fine py + tr cpy sulphide bands	perv carb	335		next to maf	grab	0.049
57041		670551	5561963	50cm shear QFP with blue qtz eyes		str perv carb	360			grab	0.033
57042		670541	5561967	Shear in f-mgr'd QFP, white qtz eys	msv py bands 30% py, pent? (pink hue), pos spha		320	non mag	along QV	grab	0.016
57043		670448	5580897	Crenutated schist, min sil flooding		rusty fracts	320	non mag	in pit	grab	<0.00S
57044		670448	KKRAROR	8" millov grev QV in fels schist	diss cube py 5-10% stgr py/po/pent/cpy, min nic	rust	340	loc mag	in plt	grab	0.033
57045		670451	5560897	Felsic schist, partly cren'd, zone at least 5m wide		rust	~30			grab	0.114
57046		670451	5560803	Folding fels schist, 50-30cm mineralized zone	msv py	rust	230		pit near Stew	grab	<0.005
57047		669748	5560519	QV in Carb schist; mostly white, partly grey, x foln		rust	<del></del>				KO-005
57048		669747	5560518	Fels schist w 10% QV (5mm)	min fine sulf	Tust		loc mag	cnt shaft	grab	0.063
57049		669731	5580554	QFP? 10% sil flooding + min maf wisps	loc + dis py/po/cpy, tr nicolene	ļ			ont shaft	grab	0.037
		669726	EE60542	Mgr'd Gabbro w 1.5mm qtz stgr	fine stgr sulf	rust		100 11100	stew shaft	grab	0.019
57050			5500542	1m QV at rose/rusty part, with maf seams	loc cube py	rust	310	ļ		grab	0.010
57051		669801		Mgr'd Mafic		rusty fracts				14.	0.057
57052		669803	5500555	60% Qtz + 20% Maf contact; sh'd	2mm msz py vn, 20%		290		pit near Stew		60.005
57053		669841			py/po + cpy in fracts	rusty fracts		<b></b> _		grab	0.851
57054		669841	5550544	M-cgr'd gabb	30% py in shear, min py	yellow-orange			shaft	grab	
57055	15U	666576	5552806	Mgr'd Mod sh'd Granite by QV	tr pv	rusty fracts			shaft	grab	0.006
57056		666576	5552805	20cm white QV in ser schist	10% fine stgr py/br sphal, min cpy, p	carb			waste	grab	0.216
57057		666581	5552802	V. fgr'd mafic schist; dark and competent	min-3% stgr py/sphal/cpy, tr-m nic	carb			waste	grab	0.007
57058		666581	5552800	V. fgr'd martic schist w 60% boudinaged qtz veining	msv pink sphal? + cpy in vn, tr bor				waste	grab	0.163
57059		666595	5552804	2cm Q-C vn in Mafic schist	5% blocky py, sphal	ser			waste	grab	2.251
57060		666599	5552804	Mgr'd Granite w 30% QV	4% black + brown sphal in maf sear	ns				grab	178.47
57061	15U	666609	5552839	2m QV    2m QV with fels intr schist	1% blk + bm sphal + py in seams	ser			Main shaft	grab	140.57

St. Ant	hony -			Property: Prospecting Sample	Descriptions I an 2000			<del> </del>	<del> </del>		Ass
	GPS Loc				Mineralization	Aiteration	Strike	Magnetic		Туре	1.
ample#	<u> </u>	Easting	Northing	Rock Type	Mineralization	orange alt'n	70		Near Bucke	grab	0.4
57063		668227	5558614	2m QV in Mafic schist, fractured		1	30			grab	<b>b.2</b>
57064	15U	868261	5558589	10cm QV in dk green sh'd Mafic voic	tr py	<del> </del>	335			grab	0.5
57065	15U	668408	5558472	30cm QV with maf seams, fract'd, vuggy, x-ing foin		rusty fracts	300			grab	0.0
57066		668431	5558464	Vfor'd sh'd mafic; competent, min cc vns	min-1/2% po, cpy, bornite, sphal?	str perv carb			Loose-local	grab	0.0
57067		668429	5558466	Vfgr'd sh'd mafic; competent, min cc vns	tr-min sulf	Oli port Gaio	360		by pit/shaft	grab	مم
57068	15U	668548	5558538	Mafic schist with 50% qtz veining	tr-min suif		360		by pit/shaft	grab	ع. ه
57069	15U	668543	5558542	1 5m OV in maf shist		<del> </del>				grab	<u> 60.</u>
57070		668477	5558572	30cm bland QV with sug txt along cnt with maf schist	tr sulf	vellow-orange	40			grab	<u></u> Ko.
57071		668350	5558737	10cm QV in maf schist w mar wisps		<u> </u>	50	non mag		grab	ko.
57072		669609	5557374	Mgr'd sh'd maf; 30% plag; 3% blue qtz eyes	min diss py	carb, rusty fracts	350			grab	<u> Ło.</u>
57073		669589	5557382	F-mo'd Felsic silicios schist, orange-grey	1/2 % stor sulf	str perv carb	360			grab	≰o.
57074	15U	669583	5557390	Mgr'd FP?? Schist, 1% blue qtz eyes, 5% spec nem	1/2 % stgr suit	str perv carb	10			grab .	سط
57075	15U	669584	5557408	M-cgr'd FP, 5% hem	1/2 % fine diss sulf	mod- wk carb	40			grab	ءهناي
57076		669500	5557384	10cm fgr'd + dark maf shear	1/2 76 1(1)8 (1)55 5(1)	loc rust	40		_	grab	<u> 40.</u>
57077		669491	5557387	5cm white QV in sh'd mafic	min-1/2% fine diss sulf	mod perv carb	350				<u>≮o.</u>
57078		669487	5557235	70% plag: 30% maf.	min-1/2% line diss sun				in pit	grab	لىم≱
57079	15U	669507	5557229	10cm QV between carb zone and matic scrist	18.4	perv carb			pit	2m chip	40.
57080		669804	5557358	Carb bx/schist w x-cutting QVs	sulfides	carb			Loose-local	grab	<u> </u>
57081		669799	5557361	Qtz-carb vein in mafic schist	5% sulf	carb		<del> </del>	Loose-local	grab	2.2
57082		669790	5557317	Dk grey-blue Q-C vn	40% msv + cube py	carb ser		loc mag	Loose-local	grab	0.:
57083		669779	5557314	Carb-ser schist	5% fine py/po	min QC		loo meg		grab	3.1
57084		669781			msv py	carb/ser		<del> </del>		grab	6.0
57085		669782	5557319	Felsic schist, green mineralschi	10% po/py	(Carb/sei	<del></del>	<del>                                     </del>		5 handfuls	0.1
57086	150	669769	5557272	Crushed rock from pilegrey schist, min qtz		rust		<del> </del>		5 handfuls	6.0
57087		669783	5557277	Crushed rock from pilegrey schist, min qtz	sulfides	ser, str perv carb	50		trench	2m chip	0.4
57088		669749	5557237	Feisic schist w 5% qtz vn	1-15% suffices	str perv carb		loc mag	trench	2m chip	0.
57089		669757	5557222	Felsic schist- light grey-pea green	2-5% po	ser, str perv carb	<del>-   1</del> 0			1.5m chip	0.
57090		669754	5557221	Felsic schist w 2x7cm QVs	1-7% po/py	carb	<del></del>		trench	grab	62
57090		669754			semi msv py/po	str perv carb		<del>                                     </del>		grab	0.0
	15U	660740	5557225	felsic schist 40cm white QV with 20% carb; x veining	10% py sulf in veinlet	carb		<del> </del>		chip	0.3

t. Ant	hony			Property: Prospecting Samp		T				Time	Asso
	GPS Loc				Mineralization	Alteration	Strike	Magnetic		Туре	Au a/
mple #		Easting	Northing	Rock Type	5% sulf	carb, rust			11.0		_
57094	15U	669738	5557218	Felsic tuff schist	5% sulf	carb, rust			trench	1.5m chip	0.14
57095		669743	5557222	Felsic tuff schist w carb veins	10-15% pv	str perv carb		<u> </u>		grab	_
57096	15U	669737	5557227	Qtz-ser schist	5% sulf	ser, carb		[	trench	50cm chlp	
57097		669753	5557221	Footwall of QV; felsic schist	5-10% sulf				trench	20cm chip	
57098		669733	5557207	Sulphide breccia with It blue quartz fragments	min suif				2000	grab	م.م
57099	15U	669733	5557207	White + grey Qtz	fine po/sphal along rusty carb seam	ssil, carb				grab	م.م_
57100	15U	668226	5555667	Silicified maric schist, competent	3% sphal, min cpy, born					grab	ه.م
57101		668229	5555870	Sit'd schist with 50% Qtz veins	cov in vn	<del>                                     </del>				grab	0-1
57102		668219	5555686	1cm vein in Mafic voic	1% sphal, 1% gal, 1% cpy					60cm chip	_
57103		668043	5555603	50 cm qtz vein	3% po, sphai, cpy	sil, carb				grab	نوا.
57104		668049	5555593	Fgr'd maf shist, Hanging wall	msv gal bands,1% cpy + sphal					grab	26.
57105		668049	5555595	Quartz	2% cpy, 1% gai + sphal					grab	380
57106		668059	5555592	Quartz + maf seams	4% gal, 1% cpy + sphal					grab	1.
57107		668057			3% cpy, 2% gal, 1% sphal	<del></del>				grab	عنظ
57108		668057			376 CDY, 276 (Id., 176 Sprids					grab	0.1
57109		668057	5555590	Quartz	min cpy, min gal	<u> </u>				grab	نمار
57110		668057	5555590	Quartz + maf schist	min sulf		30		La Riviere, Si	grab	0.4
57:111		667627	5556248	Sil'd schist	2% fine diss sulf				La Rivierre	chips, pit	3.
57112		667664	555820R	Qtz, white and rosey					La Rivierre	chips, pit	1.
		667664		Mafic schist	sulf	ļ			LR pit, North	grab	0.0
57113 57114	150	667672	5556306	Sil'd Mafic schist and 30% Qtz	2% fine diss sulf	<u> </u>	30			grab	0.
		667659	5556284	Sird Mafic schist and 15% Qtz stringers	1-3% fine diss sulf		30			grab	0.0
57115		667758	5550204	Mafic schist w 5% qtz stgrs	1/2 % diss py		30		angular 1m lo		6.4
57116		667781	5550013	Sil'd mafic schist	1/2 % blebby + fine diss sulf	carb, hem, rusty	30		guck from pit		0.
57117				Schist; mushy and grey			30			grab	Ko
57118		667835	5550770	Schist with 40% qtz stgrs	2% py + sphal	ļ	30			grab	0.
57119		00/833	5550770	Sil'd Mafic schist w 60% qtz	5-10% diss py, 1% sphal	40	30			grab	Ko.
57120		667843	0000//2	I sees Otz piece	tr mai, tr py; fine sulf in schist	red-orange alt'n				grab	0.
57121				Loose Qtz piece	Loc blobs cpy and msv sphal band	rose, rusty				grab	6.
57122		667841		Loose Qtz piece	2% fine diss sulf	<u> </u>	30			grab	6.
57123 57124		667861	3556821	Sil'd schist Mgr'd tuff, 60% plag; partly schistose	gobby cpy and py		20		Dawsoll VII		-7

St. Anf	hony	•	•	Property: Prospecting Sam	ple Descriptions Fall 20	005			-		lesay
	GPS Loc				Mineralization	Alteration	Strike	Magnetic	Comments	Туре	1
Sample #		Easting	Northing	Rock Type		red, rusty	20		Dawson Vn		0.0 82
57125	15U		5556647	30cm Quartz vein	leaching sulf	red, fusty	~90	<del>                                     </del>		grab	0.938
57126	15U	667359	5556702	Qtz + Granite piece	loc cpy, sphal, po	rust	~90		Dawson Vn	grab	3.740
57127				50cm Qtz vn	py min-1/2% diss sulf	rusty fracts	60			grab	2.207
57128		667314		F-mgr'd Granite, sh'd		carb			Dawson Vn		0.107
57129		667305		Mafic schist, bending	1/2-1% blebby py	rust	<del></del>	<del> </del>		grab	0.080
57130		667307		2cm QV in Granite	min py	orange alt'n			Loose-local	grab	0.04
57131	15U	667301		Qtz vn + Granite	tr-min py	Orange ait it		<del> </del>	Loose-local	grab	0.010
57132	15U	667300	5556540	Qtz vn + Mafic seams	min diss py			<del>                                     </del>	Loose-local	grab	0.158
57133	15U	667288	5556496	Qtz-Carb in Granite	min diss py	rusty fracts	20-40			grab	399.38
57134		667293	5556489	30cm Qtz vn in Mafic schist, bending	loc py py/cpy in velnists	Tusty Huots			Loose-local	grab	3.404
57135		667269	5556107	V. fgr'd sh'd mafic w 2% q-c velning	py, tour along edge		<del></del>	· · · · · · · · · · · · · · · · · · ·	shore	grab	0.715
57136		667035	5555924	75cm Qtz Veln In Mafic	py, tour along edge			<del>                                     </del>	shore	grab	0.04
57137		667035	5555924	75cm Qtz Vein in Mafic		<del></del>			shore	grab	0.(38
57138		667035		75cm Qtz Veln in Mafic	py, tour along edge	<del></del>			shore	grab	0.019
57139		667035		75cm Qtz Vein in Mafic	py, tour along roge	rust	20		Float	grab	0.05
57140		667431		Carb + bt	aulf along ota stor	carb	20		strip area	grab	0.019
57141	15U	667431	5556974	Fgr'd Mafic schist	sulf along qtz stgr	rust				grab	31.030
57142	15U	667435		Qtz vn along ctc in maf-gran	4 1004 15	- I dat	40			grab	0.816
57143	15U	667285		Mafic schist w min qtz stgr	min-1/2% diss sulf		<del></del>	<b></b>		grab	1.553
57144	15U	667378		Qtz in mafic schist	cpy + sphal by maf seams	rust				grab	0.044
57145	150	667369		Qtz vn in gran	40 000/ 14-1-1-1	rost			Float	grab	0.322
57146	15U	667375	5556909	Sil'd Granite w qtz stgr	10-20% blocky py		360			orab	0.008
57147	15U	667426		1-2cm qtz vn in gran	sphal along seams		- 300			grab	0.034
57148	15U	667396		Gran + maf layers	x-cutting sulf velnlets					grab	0.04
57149	15U	667396	5556935	Gran w mm Qtz stgrs	sphal along seams	rust	30			grab	0.016
57150	15U	667685	5557519	60cm mafic shear w qtz + cc veinlets	cpy along vns	rust	- 1 30			grab	40.009
57151	15U	667665	5557524	Sil'd granite at cnt with mafic	diss + blebby py and sphal				talace materi		40.00
57152		667662		Fgr'd maf w boudinaged qtz vn	loc cpy + sphal	red-hem	70			grab	<0.005
57153	150	667685		Sii'd sh'd granite dyke	min sphal, tr cpy		<del></del>			grab	40.00
57154		667685	5557483	Mafic schist w 30% Qtz vns	cpy + sphal	perv carb				grab	40.00
57155		667688	5557483			Irust				3	30.00

St. Ant			· · · · · · · · · · · · · · · · · · ·	Property: Prospecting Sar	npie Descriptions Fail 2	000		<del> </del>		-	4990
	GPS Loc		N12 (	B. J. Tana	Mineralization	Alteration	Strike	Magnetic	Comments	Туре	
Sample #	450			Rock Type	loc aspy, tr born				Float	grab	40.00
57156				Layered Qtz vein	v. fine diss sulf		40			grab	40.00
57157		667702	555/484	Red sil'd dyke, cherty	tr sulf	rust				grab	40.0
57158				QV in mafic schist from pit, 30cm	py, sphal, cpy in vn		30	<u> </u>		grab	1.6
57159				Granite dyke + qtz veinlet	1% diss sulf		80			grab	افرم
57160	150	66/612	5557434	Fault cutting sh's mafic + gran dykes	3% sphal		75		Loose-local	grab	0.01
57161				Grey-white Qtz vn	loc pockets aspy	rust	75		Loose-local	grab	0.07
57162			5557370		30% blebby py in maf	perv carb	75		Loose-local	grab	0.25
57163	150	687575		60% Mafic schist + QV	30% blebby py in maf	carb	75		1	grab	0.11
57164				1cm vein in Mafic voic	blebby		40		1	grab	0.0
57165		667364		Qtz vein in Granite	1% fine diss py					grab	KO.0
57166		667520		Mafic w 5% Qtz stgrs	T /o fillo dioo p	red				grab	₹0.00
57167				White + reddish qtz	2% diss py	rust				grab	40.0
57168		667523	5556822	Sheared Mafic w 10% qtz veins 50cm Qtz vein, 10% mafic	5% py					grab	40.0
57169		687524			5% py					grab	0.00
57170		667534		50cm Qtz vein, 10% mafic	5% cube py, 3% sphal				loose-local	grab	32.4
57171		667347			min-1/2% diss py		40			grab	0.0
57172		670488		Mgr'd Gabbro, sh'd		perv carb	15			grab	0.0
57173		670511		Mafic schist w 40% qtz	1% stgr py + sphal	per v dai b			Loose-local	grab	0.0
57174		670493		Felsic schist	5-10% stgr sulf			loc mag	Loose-local	grab	0.0
57176	15U	670011		Mgr'd Gabbro, 60% px	5-7% blebby pix/py	rust			From Stew	grab	0.0
57177	15U	669807		Quartz pieces and powder	blocky py	rust, red	310		PIONI SIEW	grab	40.00
67178	15U	669830		Mgr'd Gabbro + Qtz vein	5% po/py	rust	310		piece from pl	-	0.0
57179	15U	669868		Qtz + Mafic schist: 50% qtz; 10% maf	40% sphal	rust			piece from pi		2.18
57180	15U	669868	5560360	Qtz + Mafic schist	10% msv py veins	rust	340			grab	35.9
57181	15U	670634		Cherty QV	min-1/2% diss sulf	rust, carb	340		Mine L. dump	-	0.0
57182	15U	670721	5560253	Mafic schist w 30% Qtz vn	10% blebby sulf in maf	rust, carb				grab	6.55
57183	15U	667243	5556841	4cm QV in granite	2% py	min carb				grab	0.88
57184		667241	5556845	4cm QV in granite	1/2% py	min carb				grab	0.02
57185		667234	5556861	2cm sug QV in Granite	min py					grab	2.32
57186	15U	667223		15cm QV in sh'd Granite	tr moly, min py					grab	40.0€
57187	15U	667201	5556897	Bland white QV in granite	min sulf		<del></del>			grav	
57175	15.3				<b>!</b>			1			0.03

St. Ant	hony	•		Property: Prospecting Sa	mple Descriptions Fall 2005						Assa
	GPS Loc				Mineralization	Alteration	Strike	Magnetic	Comments	Туре	Aug/
ample#		Easting	Northing	Rock Type	Milleralization	With the same				grab	0.00
57188	15U	667199	5556906	10cm grey QV in granite				<del> </del>		grab	0.02
57189		667202	5556935	Mgr'd blk + wht Granite	min sulf			·			0.01
57190		669856	5560385	F-mgr'd Gabbro, s+p txt	min sulf			<del> </del>	1 a san admin		
57191		669854	5560387	Otz vn	tr-min sulf	min carb			Loose-strip		40.00
57192		660847	5560430	QV in Mafic schist	tr-min sulf	min carb					<u> ≮0.00</u>
57201		669363	5555784	White QV in sh'd mafic; 70% qtz	loc py	rust	30			50cm chip	
		000203	5555761	Sil'd, cherty, grey fel? Schist	10% fine diss sulf, sphal		40				<u> </u>
57202		008203	5555756	Olld shorts grey Cablet min mie	2% fine diss sulf, sphal		40		Old pit	1m chip	0.01
57203		668263	5555758	Sil'd, cherty, grey Schist, min qv's	2-3% fine sphal, py + min cpy	rusty fracts	35		Old pit		<u> 40.00</u>
57204		668262	5555759	Sil'd, sh'd white + grey marble bd	tr-min rusty sulf	rust	50		rolled qtz	10cm chip	40.00
57205		668256	5555751	1-4cm Qtz vns in Mafic schist	5% fine diss stor sulf				Float	grab	40.00
57206	15U	668420	5555745	Mgr'd + sh'd Granodiorite	15% inte disa sigi suit	rong ruety	30				40.00
57207	15U	668346	5555853	1-7cm Qtz vn, boud + anast, in maf	Miles in the first in the second	rose, rusty	<del></del>				0.00
57208	15U	667864	5555144	30cm QV in Mafic schist	loc sulf in vn + diss in m.s.						1.64
57209		666810	5553482	Sh'd Gran @ cnt w. Mafic; 20% QV	1% diss sphal	perv carb			Old pit		0.78
57210		666773	5553042	1+m QV in carb/ser granite	3% chunky cube py	rusty fracts		L		Micro	10.10



1046 GORHAM STREET THUNDER BAY, ONTARIO P7B 5X5 PHONE: (807) 626-1630 FAX: (807) 622-7571 EMAIL: assay@accurassay.com WEB: www.accurassay.com

### Certificate of Analysis

Friday, November 04, 2005

Emerald Fields Res. Corp. 1546 Pine Portage Road Kenora, ON, CA

P9N2K2

Ph#: (807) 468-7374 Fax#: (807) 468-9792 Email emerald@voyageur.ca Date Received : 13-Oct-05 Date Completed : 03-Nov-05

Job # 200541884

Reference:

Sample #: 71

Rock

BKTCH - 1

Accurassay#	Client Id	Au	Au	Au	
•		ppb	oz/t	g/t (ppm)	
126902	57001	5160	0.151	5.160	ST. ANTH / P. 1 & 3
126903	57002	3911	0.114	3.911	ST ANTH / P.1 &3
126904	57003	53	0.002	0.053	
126905	57004	205	0.006	0.205	
126906	57005	40968	1.195	40.968	CT AUTH/P-143
126907	57006	93	0.003	0.093	·
126908	57007	78	0.002	0.078	
126909	57008	690	0.020	0.690	
126910	57009	153	0.004	0.153	
126911	57010	518	0.015	0.518	
126912 Check	57010	486	0.014	0.486	
126913	57011	5340	0.156	5.340	
126914	57012	101	0.003	0.101	
126915	57013	7	<0.001	0.007	
126916	57014	121	0.004	0.121	
126917	57015	53	0.002	0.053	
126918	57016	390	0.011	0.390	
126919	57017	119	0.003	0.119	
126920	57018	1225	0.036	1.225	
126921	57019	616	0.038	0.616	
126922	57020				
126923 Check		66	0.002	. 0.066	
126924	57021	79	0.002	0.079	
120724	37021	7	< 0.001	0.007	

PROCEDURE SODES: AL4Au3

Certified By

Derek Demianiuk H.Bsc., Laboratory Manager

The results included on this report relate only to the items tested

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AL903-0319-11/04/2005 02:30 PM

Page 1 of 4



1046 GORHAM STREET THUNDER BAY, ONTARIO P7B 5X5 PHONE: (807) 626-1630 FAX: (807) 622-7571 EMAIL: assay@accurassay.com WEB: www.accurassay.com

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Job # 200541884 Reference:

Sample #: 71

Rock

Accurassay #	Clie	ent Id	Au		Au	
•			ppt		g/t (ppm)	
126925	5702		45	0.001	0.045	
126926	5702		184	0.005	0.184	
126927	570	24	<5	<0.001	< 0.005	
126928	570	25	<5	<0.001	< 0.005	
126929	570:	26	7	< 0.001	0.007	
126930	570	27	<5	<0.001	< 0.005	
126931	570	28	<5	<0.001	<0.005	
126932	570	29	<5	<0.001	<0.005	
126933	570	30	5	<0.001	0.005	
126934	Check 570	30	<5	<0.001	<0.005	
126935	570	31	31	< 0.001	0.031	
126936	570	32	16	<0.001	0.016	
126937	570	933	<5	< 0.001	< 0.005	
126938	570	934	3231	0.094	3.231	Tripler Vein/P-7
126939	570	935	90	0.003	0.090	·
126940	570	936	41	0.001	0.041	
126941	570	037	71	0.002	0.071	
126942	570	)38	. 11	<0.001	0.011	
126943	570	)39	261	0.008	0.261	
126944	570	040	17	<0.001	0.017	
126945	Check 570	040	17	<0.001	0.017	
126946	570	041	49	0.001	0.049	
126947	570	042	33	<0.001	0.033	

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Page 2 of 4

PROCEDURE CODES: AL4Au3

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Friday, November 04, 2005

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P9N2K2

Ph#: (807) 468-7374 Fax#: (807) 468-9792 Email emerald@voyageur.ca Date Received : 13-Oct-05 Date Completed : 03-Nov-05

Job # 200541884

Reference:

Sample #: 71

Rock

Accurassay #	Client Id	Au	Au	Au	
-		ppb	oz/t	g/t (ppm)	
126948	57043	16	< 0.001	0.016	
126949	57044	<5	< 0.001	< 0.005	
126950	57045	33	< 0.001	0.033	
126951	57046	114	0.003	0.114	
126952	57047	<5	< 0.001	< 0.005	
126953	57048	<5	< 0.001	< 0.005	
126954	57049	63	0.002	0.063	
126955	57050	· 34	<0.001	0.034	
126956 Che	ck 57050	40	0.001	0.040	
126957	57051	19	< 0.001	0.019	
126958	57052	10	<0.001	0.010	
126959	57053	57	0.002	0.057	
126960	57054	<5	<0.001	< 0.005	
126961	57055	851	0.025	0.851	
126962	57056	6	<0.001	0.006	
126963	57057	216	0.006	0.216	
126964	57058	7	<0.001	0.007	
126965	57059	483	0.014	0.483	
126966	57060	2277	0.066	2.277	ST: AUTH / P- 14 3
126967 Che	eck 57060	2224	0.065	2.224	Lo.
126968	57061	178470	5.206	178.470	do
126969	57062	140577	4.101	140.577	do.
126970	57063	477	0.014	0.477	

PROCEDURE CODES: AL4Au3

Certified By

Derek Demianiuk H.Bsc., Laboratory Manager

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Friday, November 04, 2005

Emerald Fields Res. Corp. 1546 Pine Portage Road

Kenora, ON, CA

P9N2K2

Ph#: (807) 468-7374 Fax#: (807) 468-9792 Email emerald@voyageur.ca Date Received : 13-Oct-05

Date Completed : 03-Nov-05 Job # 200541884

Reference:

Sample #: 71

Rock

Accurassay #	Client Id	Au ppb	Au oz/t	Au g/t (ppm)	
126971	57064	263	0.008	0.263	
126972	57065	565	0.016	0.565	
126973	57066	75	0.002	0.075	
126974	57067	23	< 0.001	0.023	
126975	57068	34	0.001	0.034	
126976	57069	8	<0.001	0.008	
126977	57070	<5	<0.001	< 0.005	
126978 Check	57070	<5	<0.001	< 0.005	
126979	57071	<5	<0.001	< 0.005	

PROCEDURE CODES: AL4Au3

Certified By

Page 4 of 4

approval of the laboratory



### **Certificate of Analysis**

Monday, November 07, 2005

Emerald Fields Res. Corp. 1546 Pine Portage Road

Kenora, ON, CA

P9N2K2

Ph#: (807) 468-7374 Fax#: (807) 468-9792 Email emerald@voyageur.ca

Date Received: 31-Oct-05 Date Completed: 07-Nov-05

Job # 200542017

Reference:

Sample #: 139

(Core ) Rock

BATCH - 2

A	Client Id	Au	Au	Au	
Accurassay #		ppb	oz/t	g/t (ppm)	
136736	57072	<5	<0.001	< 0.005	
136737	57073	<5	< 0.001	< 0.005	
136738	57074	<5	<0.001	< 0.005	
136739	57075	<5	<0.001	<0.005	
136740	57076	<5	< 0.001	<0.005	
136741	57077	<5	< 0.001	<0.005	
136742	57078	<5	<0.001	<0.005	
136743	57079	<5	<0.001	< 0.005	
136744	57080	<5	<0.001	< 0.005	
136745	57081	<5	<0.001	< 0.005	
136746 Ch	neck 57081	<5	<0.001	< 0.005	
136747	57082	2258	0.066	2.258	couture L/P-8
136748	57083	251	0.007	0.251	• • •
136749	57084	3138	0.092	3.138	Conture L. 18-8
136750	57085	18	<0.001	0.018	
136751	57086	123	0.004	0.123	
136752	57087	37	0.001	0.037	
136753	57088	471	0.014	0.471	
136754	57089	568	0.017	0.568	
136755	57090	226	0.007	0.226	
136756	57091	456	0.013	0.456	
136757 C	heck 57091	396	0.012	0.396	
136758	57092	18	<0.001	0.018	
_		10	~0.001	0.018	

PROCEDURE COBES: AL4Au3

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Page 1 of 7

Derek Demianiuk H.Bsc., Laboratory Manager





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Monday, November 07, 2005

Emerald Fields Res. Corp. 1546 Pine Portage Road

Kenora, ON, CA

P9N2K2

Ph#: (807) 468-7374 Fax#: (807) 468-9792 Email emerald@voyageur.ca

Date Received: 31-Oct-05 Date Completed: 07-Nov-05

Job # 200542017

Reference:

Sample #: 139

(Core )

Accurassay#	Client Id	Au	Au	Au	
•		ppb	oz/t	g/t (ppm)	
136759	57093	352	0.010	0.352	
136760	57094	338	0.010	0.338	
136761	57095	144	0.004	0.144	
136762	57096	900	0.026	0.900	
136763	57097	302	0.009	0.302	
136764	57098	175	0.005	0.175	
136765	57099	20	<0.001	0.020	
136766	57100	5	< 0.001	0.005	
136767	57101	9	< 0.001	0.009	
136768 Check	57101	5	< 0.001	0.005	
136769	57102	120	0.004	0.120	
136770	57103	10283	0.300	10.283	camp lein /P-11
136771	57104	570	0.017	0.570	do
136772	57105	26005	0.759	26.005	$oldsymbol{d}$ $\circ$
136773	57106	380718	11.106	380.718	do
136774	57107	1919	0.056	1.919	do
136775	57108	310685	9.063	310.685	do.
136776	57109	78	0.002	0.078	Jo
136777	57110	914	0.027	0.914	do
136778	57111	71	0.002	0.071	
136779 Check	57111	62	0.002	0.061	
136780	57112	3979	0.116	3.979	Piviere 1 Pill
136781	57113	1143	0.033	1.143	do.

PROCEDURE CODES; AL4Au3

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Page 2 of 7

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Derek Demianiuk H.Bsc., Laboratory Manager





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Monday, November 07, 2005

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Kenora, ON, CA

P9N2K2

Ph#: (807) 468-7374 Fax#: (807) 468-9792 Email emerald@voyageur.ca

Date Received: 31-Oct-05 Date Completed: 07-Nov-05

Job # 200542017

Reference:

Sample #: 139

(Core) ROCK

Accurassay#	Client Id	Au	Au	Au	
-	57114	ppb	oz/t	g/t (ppm)	
136782		40	0.001	0.040	
136783	57115	46	0.001	0.046	
136784	57116	18	< 0.001	0.018	
136785	57117	17	< 0.001	0.017	
136786	57118	12	<0.001	0.012	
136787	57119	<5	<0.001	<0.005	
136788	57120	56	0.002	0.056	
136789	57121	<5	<0.001	< 0.005	
136790 Ch	eck 57121	<5	<0.001	<0.005	
136791	57122	12	< 0.001	0.012	
136792	57123	6	<0.001	0.006	
136793	57124	56	0.002	0.056	
136794	57125	82	0.002	0.082	
136795	57126	998	0.029	0.998	South of Dawle F.11
136796	57127	3740	0.109	3.740	do
136797	57128	2207	0.064	2.207	do
136798	57129	107	0.003	0.107	
136799	57130	86	0.003	0.086	
136800	57131	76	0.002	0.076	
136801 C	heck 57131	17	<0.001	0.017	
136802	57132	10	<0.001	0.010	
136803	57133	158	0.005	0.158	
136804	57134	399386	11.650	399.386	Dawson - W/p-9

PROCEDURE CODES: AL4Au3

The results included on this report relate only to the items tested

Certified By Derek Demianiuk H.Bsc., Laboratory Manager

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Page 3 of 7



# **Certificate of Analysis**

Monday, November 07, 2005

Emerald Fields Res. Corp. 1546 Pine Portage Road Kenora, ON, CA

P9N2K2

Ph#: (807) 468-7374 Fax#: (807) 468-9792 Email emerald@voyageur.ca Date Received : 31-Oct-05 Date Completed : 07-Nov-05

Job # 200542017 Reference :

Sample #: 139

(Core) ROCK

Accurassay #	Client Id	Au	Au	Au
136805	57135	ppb	oz/t	g/t (ppm)
		3404	0.099	3.404 Dawson. Wh / F
136806	57136	715	0.021	0.715 à o
136807	57137	49	0.001	0.049
136808	57138	138	0.004	0.138
136809	57139	19	<0.001	0.019
136810	57140	55	0.002	0.055
136811	57141	26	<0.001	0.026
136812 Check	k 57141	11	< 0.001	0.011
136813	57142	31030	0.905	31.030
136814	57143	816	0.024	0.816
136815	57144	1553	0.045	1.553
136816	57145	44	0.001	0.044
136817	57146	322	0.009	0.322
136818	57147	8	< 0.001	0.008
136819	57148	34	<0.001	0.034
136820	57149	46	0.001	0.047
136821	57150	16	<0.001	0.016
136822	57151	<5	<0.001	<0.005
136823 Chec	k 57151	<5	<0.001	<0.005
136824	57152	<5		
136825	57153		<0.001	<0.005
136826	57154	<5	<0.001	<0.005
136827	57155	<5	<0.001	<0.005
100027	2,133	<5	< 0.001	<0.005

PROCEDURE CODES: AL4Au3

Page 4 of 7

Derek Demianiuk H.Bsc., Laboratory Manager

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Date Received: 31-Oct-05 Date Completed: 07-Nov-05

Job # 200542017

Reference:

Sample #: 139

(Core) ROCK

•	0"	Au	Au	Au
Accurassay #	Client Id	ppb	oz/t	g/t (ppm)
136828	57156	<5	<0.001	< 0.005
136829	57157	<5	<0.001	<0.005
136830	57158	<5	<0.001	<0.005
136831	57159	1615	0.047	1.615
136832	57160	10	< 0.001	0.010
136833	57161	92	0.003	0.092
136834	Check 57161	80	0.002	0.080
136835	57162	75	0.002	0.075
136836	57163	248	0.007	0.248
136837	57164	118	0.003	0.118
136838	57165	29	< 0.001	0.029
136839	57166	<5	<0.001	<0.005
136840	57167	<5	<0.001	<0.005
136841	57168	<5	<0.001	<0.005
136842	57169	<5	<0.001	<0.005
136843	57170	6	<0.001	0.006
136844	57171	32528	0.949	32.528
136845	Check 57171	32467	0.947	32.467
136846	57172	63	0.002	0.063
136847	57173	35	0.002	0.003
136848	57174	18		
136849	57175		<0.001	0.018
136850	57176	37	0.001	0.037
	2,1,0	15	< 0.001	0.015

PROCEDURE CODES: AL4Au3

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Certified E Derek Demianiuk H.Bsc., Laboratory Manager

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# **Certificate of Analysis**

Monday, November 07, 2005

Emerald Fields Res. Corp. 1546 Pine Portage Road

Kenora, ON, CA

P9N2K2

Ph#: (807) 468-7374 Fax#: (807) 468-9792 Email emerald@voyageur.ca Date Received : 31-Oct-05 Date Completed : 07-Nov-05

Job # 200542017

Reference:

Sample #: 139

(Core) ROCK

Accurassay #		Client Id	Au	Au	Au
•			ppb	oz/t	g/t (ppm)
136851		57177	38	0.001	0.038
136852		57178	<5	< 0.001	< 0.005
136853		57179	36	0.001	0.036
136854		57180	2180	0.064	2.180
136855		57181	35697	1.041	35.697
136856	Check	57181	36020	1.051	36.020
136857		57182	52	0.002	0.052
136858		57183	6593	0.192	6.593
136859		57184	888	0.026	0.888
136860		57185	27	<0.001	0.027
136861		57186	2327	0.068	2.327
136862		57187	<5	<0.001	<0.005
136863		57188	7	<0.001	0.007
136864		57189	21	<0.001	0.021
136865		57190	17	<0.001	0.017
136866		57191	<5	<0.001	<0.005
136867	Check	57191	<5	<0.001	<0.005
136868		57192	<5	< 0.001	<0.005
136869		57193		No Sample	
136870		57194		No Sample	
136871		57195		No Sample	
136872		57196		No Sample	
136873		57197		No Sample	

PROCEDURE CODES: AL4Au3

Certified By

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## Certificate of Analysis

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P9N2K2

Ph#: (807) 468-7374 Fax#: (807) 468-9792 Email emerald@voyageur.ca Date Received : 31-Oct-05 Date Completed : 07-Nov-05

Job # 200542017

Reference:

Sample #: 139

(Core) ROCK

Accurassay #		Client Id 57198		Au oz/t No Sample	Au g/t (ppm)
136875 136876		57199 57200		No Sample No Sample	
136877 136878	Check	57201 57201	<5 5	<0.001 <0.001	<0.005 0.005
136879 136880		57202 57203	<5 11	<0.001 <0.001	<0.005 0.011
136881 136882		57204 57205	<5 <5	<0.001 <0.001	<0.005 <0.005
136883 136884		57206 57207	<5 <5	<0.001	<0.005
136885 136886		57208 57209	<5	<0.001	<0.005 <0.005
136887		57210	1640 781	0.048 0.023	1.640 0.781

PROCEDURE CODES: AL4Au3

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### Accurassay Laboratories

#### Accreditation

On February 27<sup>th</sup> 2002, the Standards Council of Canada (SCC) to ISO/IEC 17025 Guidelines accredited Accurassay Laboratories for Gold, Platinum, Palladium, Copper, Nickel, and Cobalt. Accurassay participated in the Accreditation Program to hold itself accountable to a higher level of standards demanded by the mining and mineral exploration industries. The accreditation covers all aspects of the assay laboratory practices from our Standard Operating Procedures (SOP) to our Quality Control and Quality Assurance Mandates (QC/QA). The Laboratory will continue to participate in the Accreditation Program to expand the analytical scopes as the SCC outlines them. Also, as set out by the SCC, Accurassay must continue to participate successfully in the PTP-MAL performance testing program to maintain our accreditation.

### Quality Control / Quality Assurance (QC/QA)

A certified standard and blank assay are run with each batch of samples. In addition, a replicate assay is run on every 10<sup>th</sup> sample to be used for checking the reproducibility of the assays. Non-reproducible check assays maybe an indication of nugget problems within the sample and we recommend that further analysis be performed to generate a better representation of the sample.

All certified standard runs are graphed weekly to monitor the performance of the laboratory. Our warning limit is 2 times the standard deviation and our control limit is 3 times the standard deviation. Any work order with a standard running outside the warning limit will have selected re-assays performed, and any work order with a standard running outside the control limit will have the entire batch of samples re-analyzed.

All QC data run with each work order is kept with the client's file. If desired, the client may have all the blanks and QC standards reported on their certificates. All quality control graphs are available upon request.

The laboratory also keeps daily log books for the sample throughput. These logs record all information pertaining to, who performed the analysis, when the analysis was done, how the analysis was performed and what other samples were analyzed at the same time. This is done to help eliminate the possibility of misrepresentation and cross-contamination of the client's samples.

In our Sample Preparation area, we randomly select samples for screen analysis to ensure grain size is being achieved (90% -150 mesh). Also, re-cuts on samples are performed from the original reject to check reproducibility.

Our AA and ICP instruments are calibrated using ISO traceable calibration standards and our quality control standards are created from separate stock solutions. Our instruments are directly tied to our LIMS program eliminating the need for manual data entry, hence, reducing human error.

#### Sample Reception and Handling

All samples received by Accurassay Laboratories will be tagged with an Internal Sample Control Number as it is entered into the Laboratory Information Management System (LIMS). The benefit of this system is the reduction of human error by controlling the labeling, sample throughput, and data entry of results from the instrumentation to the LIMS program. The system also has the ability to generate all reports both on certificate and electronic formats.

All samples received will be divided into the following categories; drill core, grab, channel, pits, and check samples. Each of these categories will also be separated into holes, projects, blast patterns, etc, as outlined by each client.

#### Rocks and Drill Core

The samples are dried prior to any sample preparation. The samples are then crushed to 90% -8 mesh and split into 250 to 450 g sub-samples using a Jones Riffler. These sub-samples are then pulverized to 90% -150 mesh using a ring and puck pulverizer and homogenized prior to analysis. Silica cleaning between each sample is also performed to prevent any cross contamination. This is done at no additional cost to the client.

#### Soils / Sediments

The samples are dried using a low temperature dryer. They are then sieved through an 80 mesh screen and the -80 mesh material is homogenized and used for analysis.

#### **Humus / B Horizon**

The samples are dried using a low temperature dryer. They are then blended to create a homogenized sample to be used for analysis.

#### Sample Turn Around

While Accurassay Laboratories will do its best to expedite all sample throughput, we will not sacrifice the quality of the analysis in doing so. Our turn around times are typically as follows:

- Au, Pt, Pd, and Base Metal Analysis 3-10 business days
- ICP is 2-3 days behind the Precious Metal Analyses
- Whole Rock is 10-15 business days

All samples received after 5:00 pm will be recognized as received on the following working day.

Faster sample turn around (less than 3 days) is available for an additional charge; please contact laboratory manager for arrangements. If for any reason Accurassay is unable to maintain this timetable we will notify you of the delay prior to the due date and we will give an approximate date of completion.

Precious metal analysis is done with a combination of Fire Assay using Lead collection and either an AAS, ICP, or Gravimetric finish. We also offer two types of Metallic separation analysis for combating nugget and free gold.

### Gold Analysis / Platinum Analysis / Palladium Analysis

All Au (Pt, Pd) analysis is performed using a 30g Fire Assay charge. Our Fire Assay procedure uses Lead Collection with a Silver Inquart. The detection limit is 5 ppb (15ppb, 10ppb respectively). The beads are then digested and an Atomic Absorption or ICP finish is used. Larger Fine Assay masses are available upon request. All Gold assays that are greater than 10 g/t will automatically be reassayed by Fire Assay with a Gravimetric finish for accuracy & reproducibility.

Note: Fire Assay 30g charges may be adjusted according to composition of the rock

#### Gold Analysis / Gravimetric Analysis

This Gold analysis includes our 30g Fire Assay procedure and replaces our AA/ICP finishes with a Gravimetric finish. We use a Sartorius Micro Balance to four decimal places giving us a 5g/t detection limit. A 2g/t detection limit is also offered using a larger fire charge of 50g.

#### **Gold Analysis / Carbons**

Carbon samples are performed in triplicate to check accuracy and reproducibility. Each sample is Ashed, then analyzed using our Accredited gold procedure.

### Gold Analysis / Pulp Metallic

Pulp Metallic analysis includes the crushing of the entire sample to 90% -8 mesh and using a Jones Riffler to split the sample to a 1kg sub sample. The entire sub sample is pulverized to ~90% -150 mesh and subsequently sieved through a 150 mesh screen. The entire +150 metallic portion is assayed along with two duplicate cuts of the -150 pulp portion. Results are reported as a calculated weighted average of Gold in the entire sample.

#### Gold Analysis / Screen Metallic

Screen Metallic analysis includes the crushing of the entire sample to 90%-10 mesh and using a Jones Riffler to split the sample to a 1kg sub sample. The entire sub sample is pulverized and subsequently sieved through a series of meshes (80, 150, 200, 230, 400 mesh). Each fraction is then assayed for Gold (maximum 50g.). Results are reported as a calculated weighted average of Gold in the entire sample.

### SCOPE OF ACCREDITATION **ACCURASSAY LABORATORIES** 1046 Gorham Street Thunder Bay, Ontario P7B 5X5

Accredited Laboratory No. 434 (Complies with requirements of ISO/IEC 17025)

CONTACT:

Mr. Derek Demianiuk

TEL.:(807) 626-1630

Laboratory Manager

FAX.: (807) 623-6820

EMAIL: assay@accurassay.com

Mr. Greg Kajmowicz

Mr. Jason Moore

**Quality Control** 

General Manager

CLIENTS SERVED:

Mineral exploration industry

FIELDS OF TESTING:

Chemical/Physical

PROGRAM SPECIALITY AREA: Mineral Analysis ISSUED ON: 2002-02-26

VALID TO: 2006-02-26

METALLIC ORES AND PRODUCTS Mineral Analysis Testing: **Geotechnical Testing** Mineral Assaying **Contract Settlement Assaying** 

(Mineral Processing)

**AL4APP Precious Metals -**

Fire Assay with Atomic Absorption Finish Gold, Platinum

and Palladium.

AL4CNC Rocks and Ores -

Aqua Regia Digest with Atomic Absorption Finish for

Copper, Nickel and Cobalt.

Footnotes:

CAN-P-1579: Guidelines for the Accreditation of Mineral Analysis Testing Laboratories

AL4APP and AL4CNC: Subject Laboratory In-House Test Methods

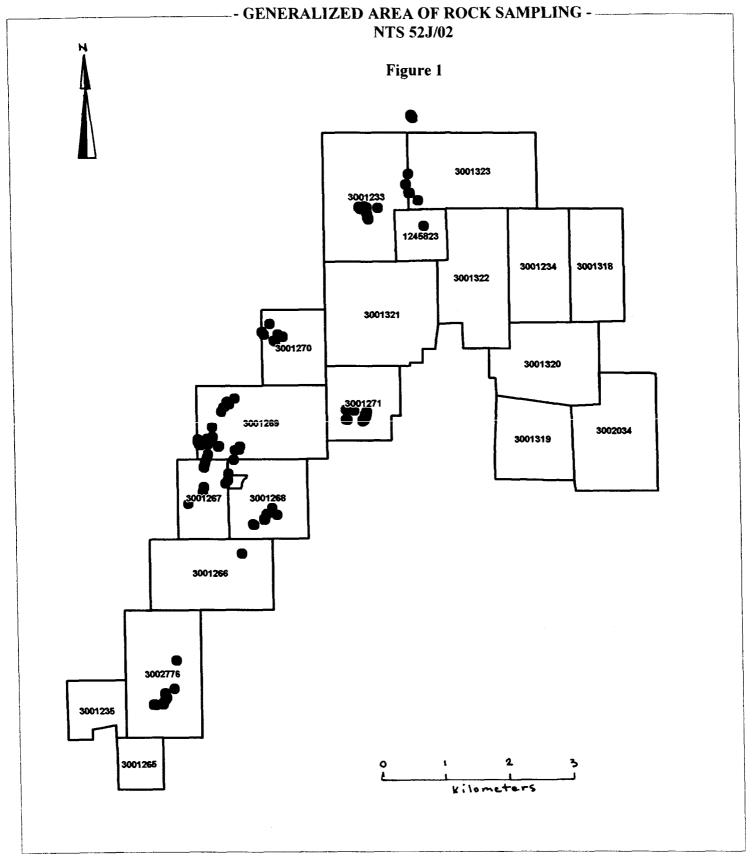
D.W. Wilson, Director, Conformity Assessment

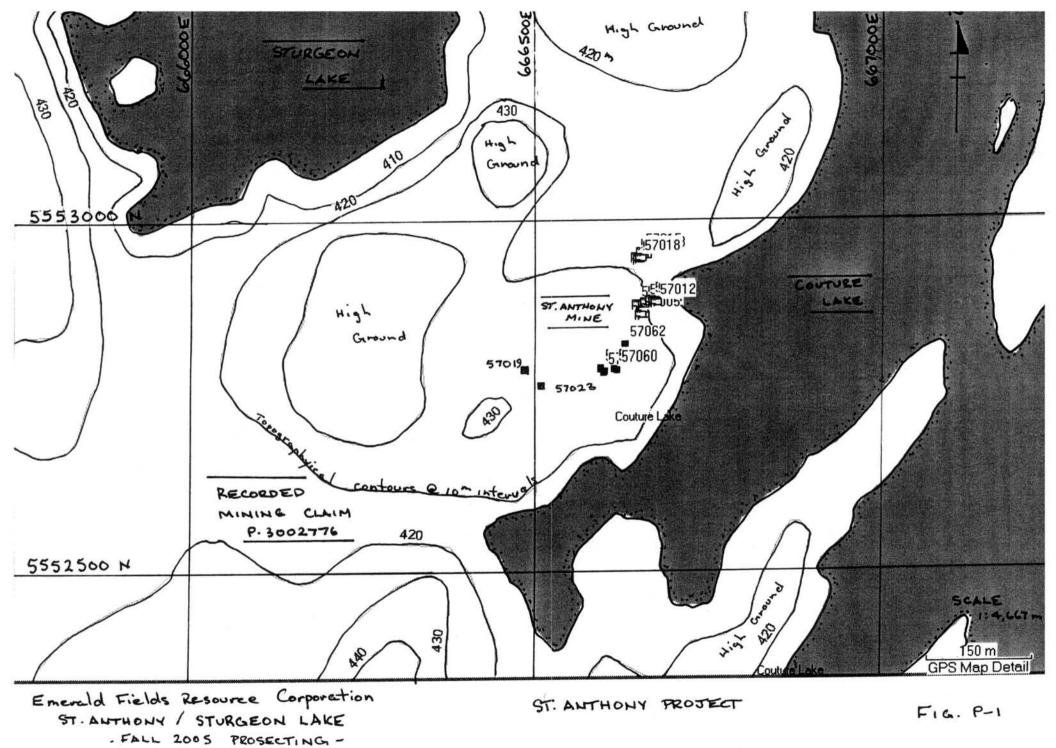
Date: 2002-02-26

Number of Scope Listings: 2

SCC 1003-15/534 Partner: None

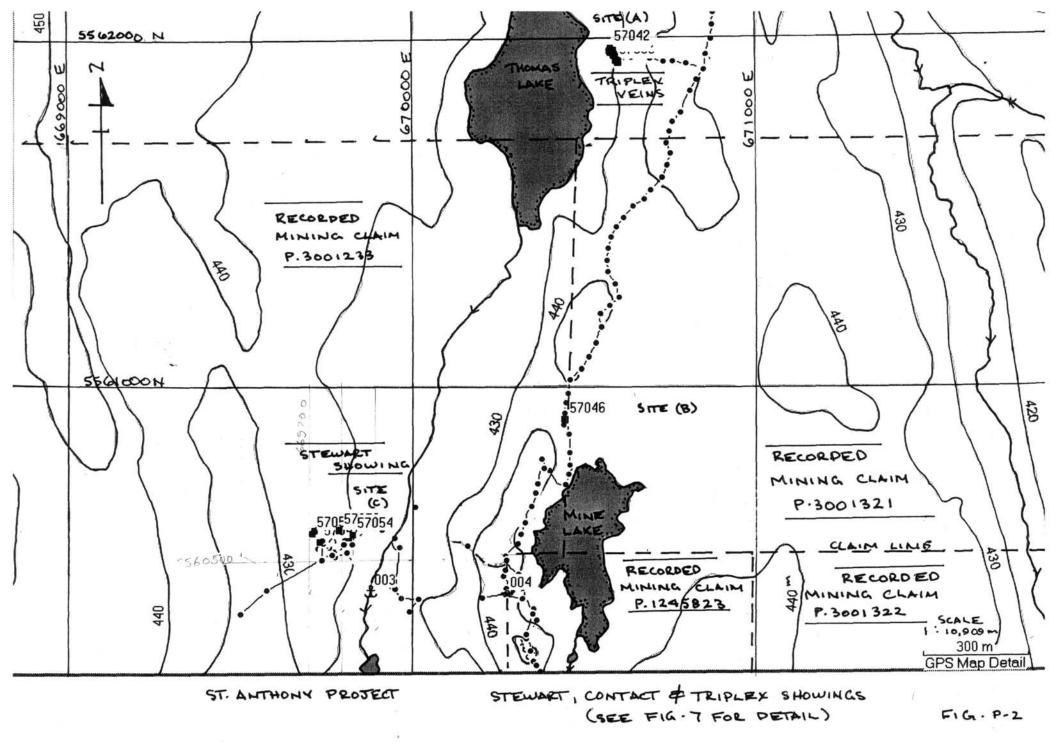
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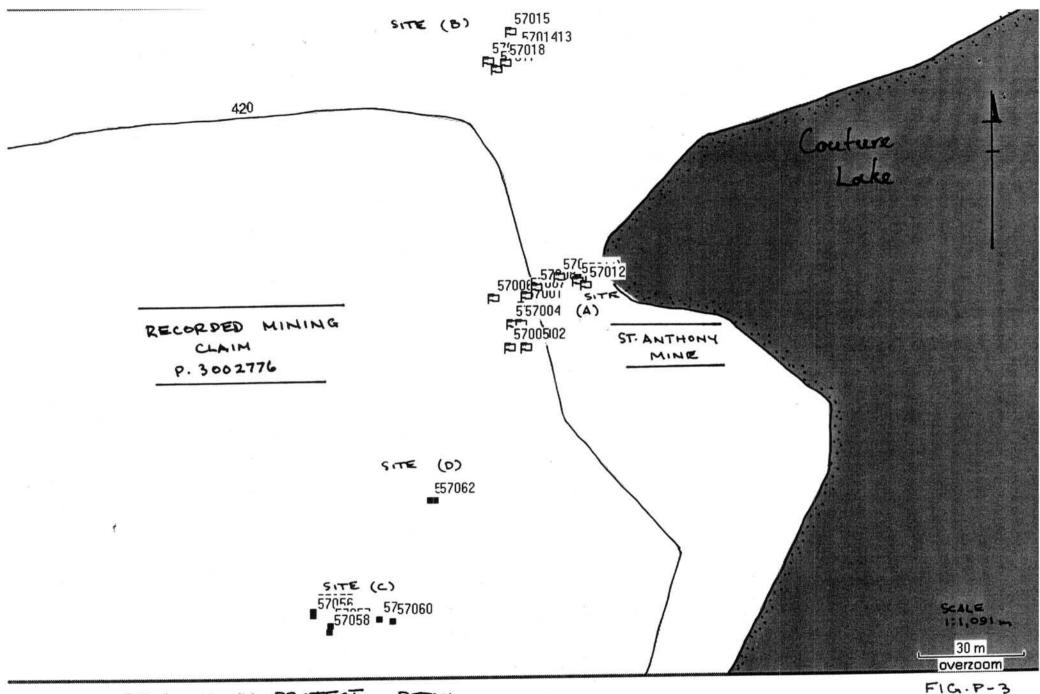
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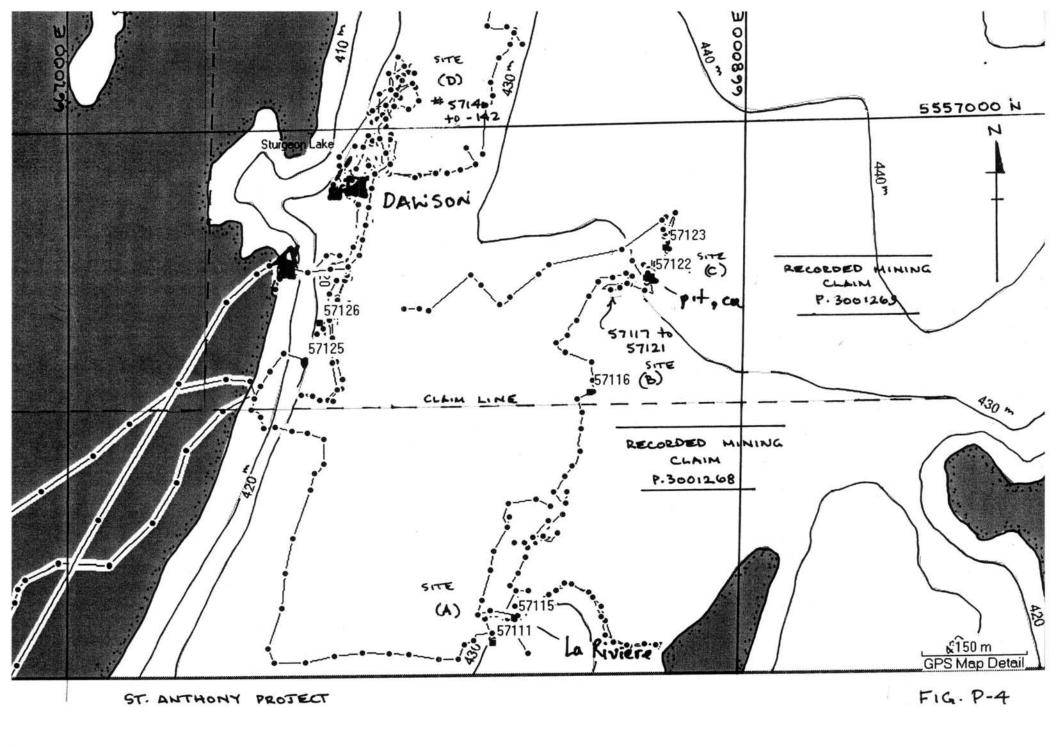
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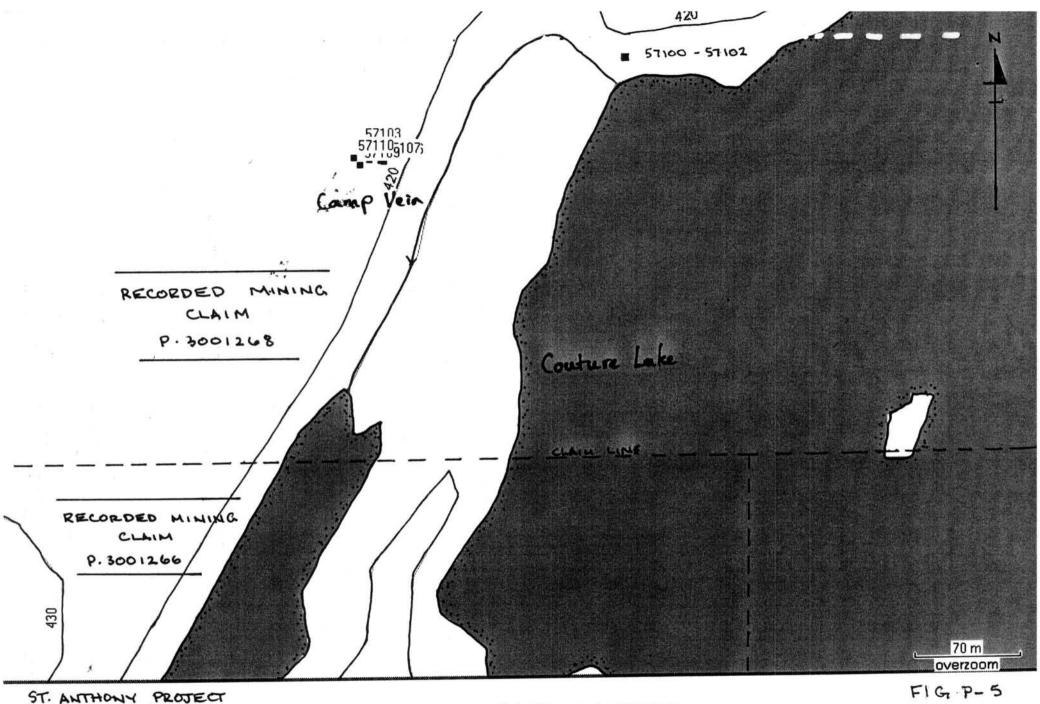
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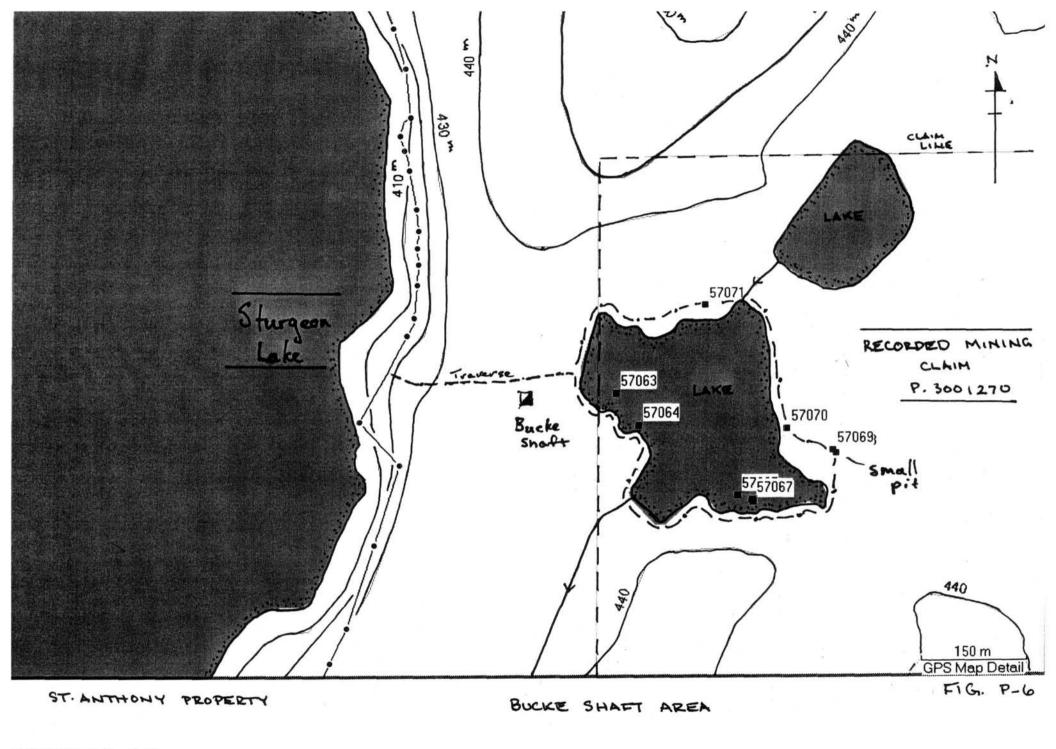


CAMP VEIN-DETAIL (SEE FIG. 11)

FIG P- 5

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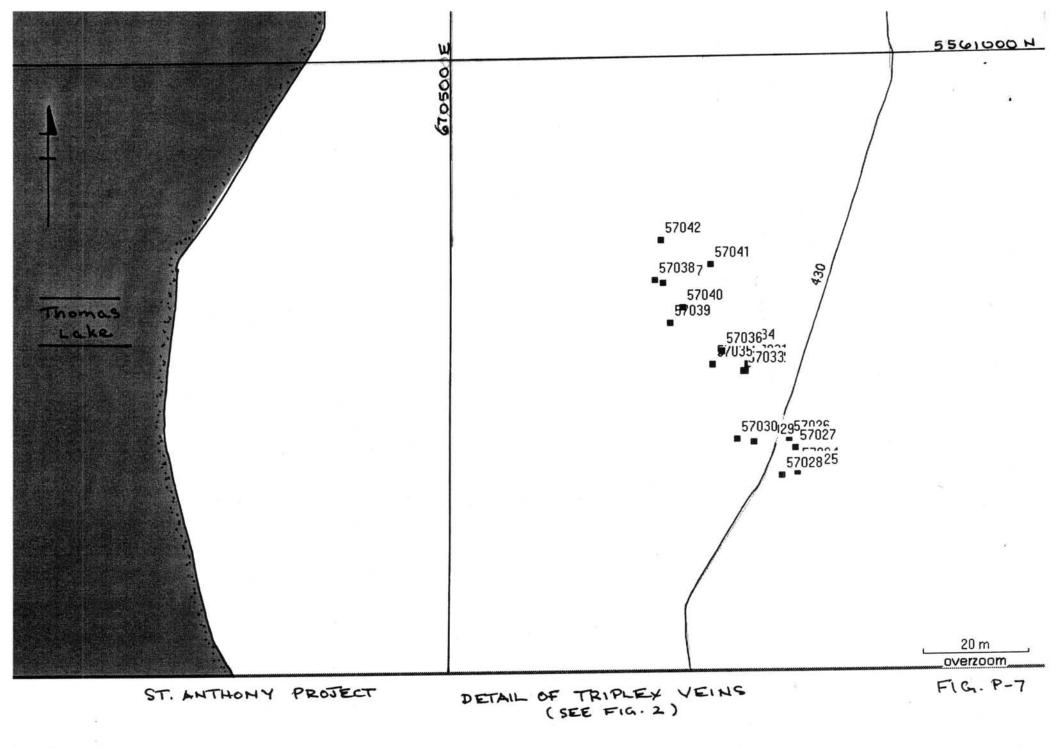
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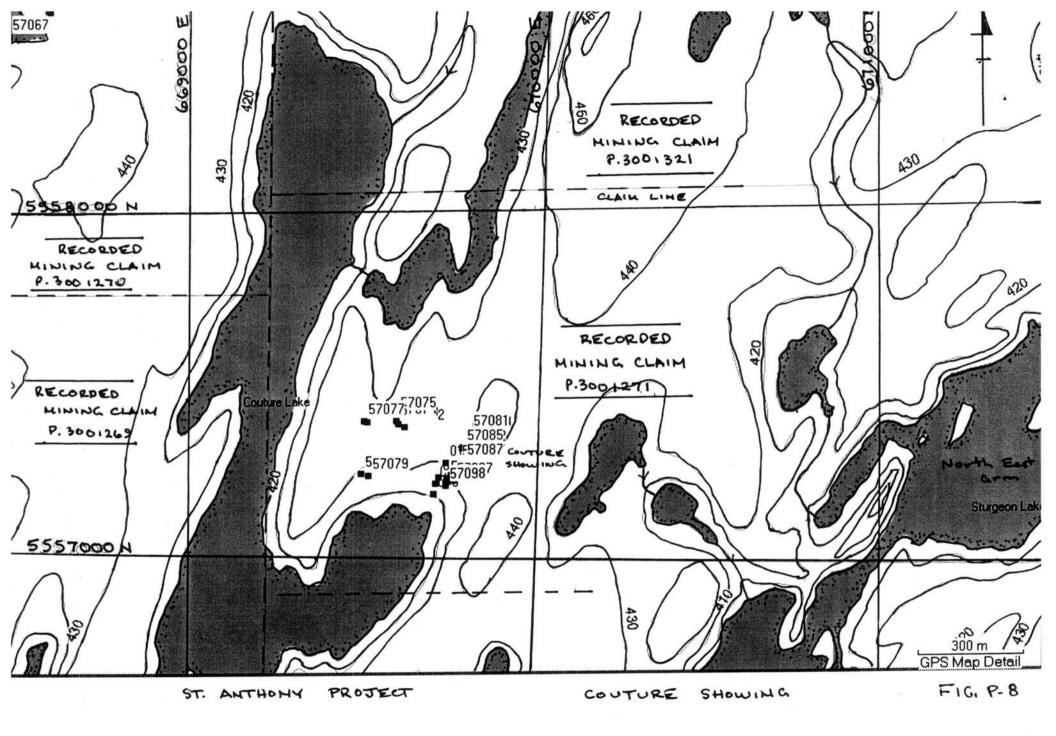
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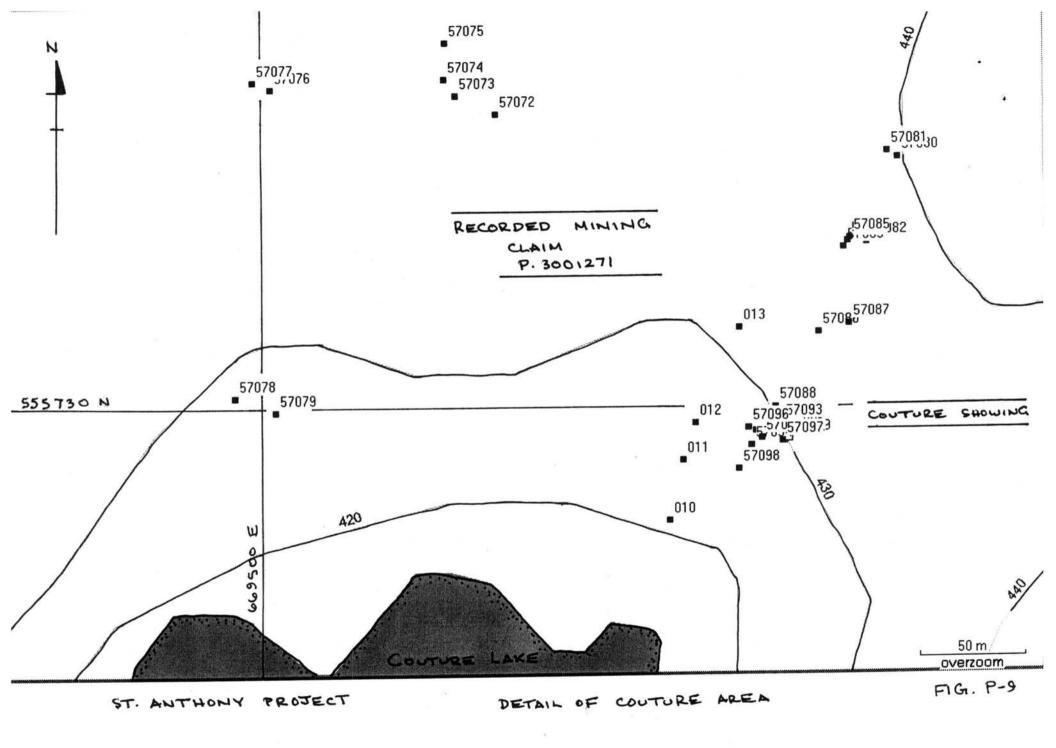
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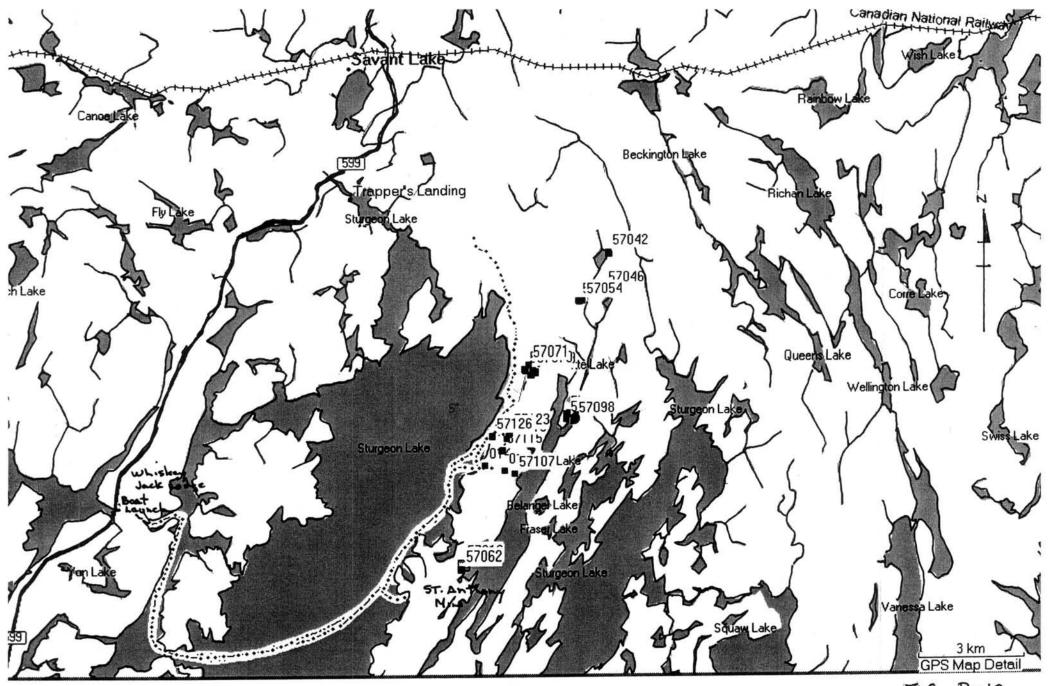
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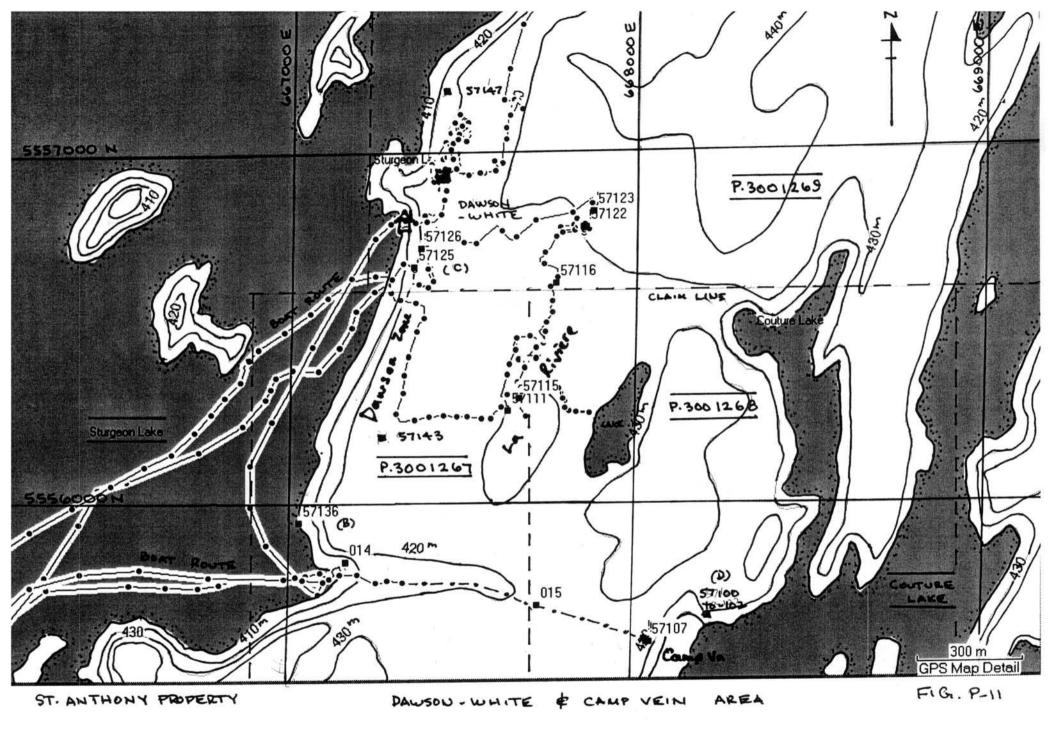


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FIG. P-10

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