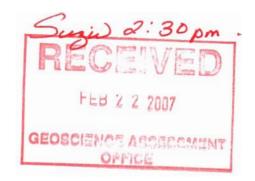
# REPORT OF GEOLOGICAL MAPPING AND ROCK SAMPLING: MAIN ZONE AND HODGSON ZONE TUDOR GOLD PROPERTY TUDOR TOWNSHIP, ONTARIO



# 2.34329

For: Everock Inc. 370 Winnett Ave., Toronto, Ontario M6C 3M1

By: R. Dillman 8901 Reily Drive Mount Brydges, Ontario N0L 1W0

January 28, 2007

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# REPORT OF GEOLOGICAL MAPPING AND ROCK SAMPLING: MAIN ZONE AND HODGSON ZONE TUDOR GOLD PROPERTY TUDOR TOWNSHIP, ONTARIO

# I. INTRODUCTION

# Scope

This report summarizes a geological mapping program which investigated southern areas of the Tudor Property. The program focused on: 1.) mapping geology in the trenches over the Main Zone, 2.) determining the extent of the felsite unit hosting the Main Zone and, 2.) primary investigation of the Hodgson Zone, a recently acquired gold prospect situated at the south end of the property. Part of the mapping program included rehabilitation of the historic trenches exposing the Main Zone. Historically, the trenches were excavated in 1994 by Romfield Building Corporation and since that time, have accumulated considerable debris and forest growth. Thirteen trenches were re-excavated, cleared of debris and mapped in detail. Much of the debris was a result of a wind storm in 2002 which caused considerable damage to the forest in the central region of the property. Fallen trees, up-turned roots and subsequent logging activities have created numerous new outcrop exposures along the felsite unit hosting the Main Zone and in the vicinity to the Hodgson Zone.

During the survey, 81 rock samples were collected at various intervals on the property. Sample locations and analytical results are included with this report and plotted on maps at a scale of 1:2,500.

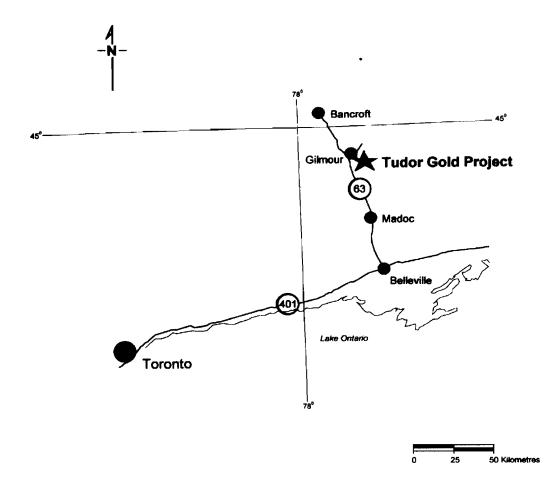
The project was initiated at the request of Everock Inc. of Toronto, Ontario. Everock currently has an option to acquire an interest in the Tudor Property.

# **Location and Access**

The Tudor Gold Property is situated in the central region of Tudor Township in the Southern Ontario Mining Division (Figure 1.).

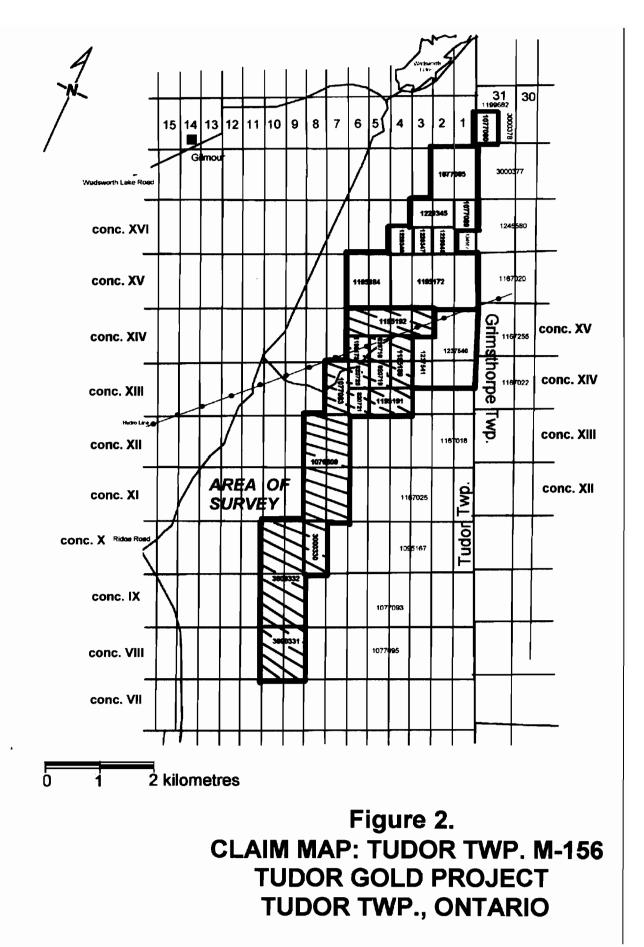
The property is accessible year-round by 4-wheel drive vehicle or ATV. Starting at the town of Gilmour located on Highway 62 north of Madoc, the property can be reached by traveling 3.5 kilometres northeast on the Weslemakoon Road to the intersection with Ridge Road. At Ridge Road, proceed south for 3.5 km to the Hydro Line Access Road. The east branch of the Hydro Line Access Road crosses through the central region of the property.

The property is covered by the 1:50,000 scale topographic map: Coe Hill 31 C/13.



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Figure 1. LOCATION MAP TUDOR GOLD PROJECT TUDOR TWP., ONTARIO



# Table 1. Claim Logistics Tudor Property Tudor & Grimsthorpe Twp., Ontario

Township	Claim Number	Recording Date	Assessment Due Date	Work Required
Grimsthorpe	1077090	2002-Dec-06	2006-Dec-06	\$400
Tudor	1076809	1997-Sept-26	2007-Sept-26	\$3,200
Tudor	1077083	1999-Jun-17	2007-Jun-17	\$800
Tudor	1077089	2002-Nov-13	2007-Nov-13	\$400
Tudor	1195172	1997-Apr-10	2007-Apr-10	\$3,200
Tudor	1195173	1997-Apr-10	2007-Apr-10	\$400
Tudor	1195188	1997-Mar-25	2007-Mar-25	\$1,600
Tudor	1195189	1997-Mar-25	2007-Mar-25	\$800
Tudor	1195191	1997-Mar-25	2007-Mar-25	\$800
Tudor	1195192	1997-Mar-25	2007-Mar-25	\$1,600
Tudor	1229345	2002-Nov-13	2007-Nov-13	\$800
Tudor	1229346	2002-Nov-19	2007-Nov-19	\$400
Tudor	1229347	2002-Nov-19	2007-Nov-19	\$400
Tudor	1229348	2002-Nov-19	2007-Nov-19	\$400
Tudor	1237540	2005-Mar-14	2007-Mar-14	\$2,400
Tudor	1237541	2005-Mar-14	2007-Mar-14	\$800
Tudor	820718	1985-Oct-10	2008-Oct-10	\$400
Tudor	820719	1985-Oct-10	2008-Oct-10	\$400
Tudor	820720	1985-Oct-10	2008-Oct-10	\$400
Tudor	820721	1985-Oct-10	2008-Oct-10	\$400
Tudor	3000330	2004-Apr-08	2007-Apr-08	\$800
Tudor	3000331	2004-Apr-29	2007-Apr-29	\$1,600
Tudor	3000332	2004-Apr-29	2007-Apr-29	\$3,200

# **Property Owners:**

James M. Chard 171 Ledge Road Marmora, Ontario K0K 2M0

Robert J. Dillman 8901 Reily Drive Mt. Brydges, Ontario NOL 1W0

# **Claim Logistics and Ownership**

The Tudor Gold Property encompasses 50 units by 20 contiguous unpatented mining claims (Figure 2). Table 1 summarizes claim logistics for the property. The property covers an approximate area of 1,000 hectares.

The mining claims comprising the Tudor Gold Property are equally owned by Robert Dillman of 8901 Reily Drive, Mount Brydges, Ontario and Jim Chard of 171 Ledge Road, Marmora, Ontario.

In March of 2006, Everock and the property owners formalized an Option Agreement allowing Everock Inc. of Toronto, Ontario to gain 100% title to the claims comprising the Tudor Property. As part of the agreement, Everock must incur exploration expenditures of \$2,000,000 by March 2009 to acquire a 50% interest in the property and has the option to acquire 100% interest to the property by incurring a total of \$5,000,000 by March 2011.

#### Survey Dates and Personnel

The combined trenching – geological mapping program was conducted over several periods of time. Work on the property occurred between the dates of: October 20, 2005 to October 26, 2005, August 24, 2006 to August 31, 2006 and September 20, 2006 to September 30, 2006.

A total of twenty-seven (27) days were devoted towards the program by 2 men. Work was performed by property owners: Jim Chard and Robert Dillman (author).

#### Physiography

The Tudor Gold Property is situated in the northeast corner of Tudor Township. The property is crossed by the Moira River which flows north to south. The river is fed by interconnecting streams and ponds which generally flow east to west. Drainage is considered variable as it is largely controlled by elevation changes and dams constructed by beavers.

The property is characterized by moderate topography with up to 15% bedrock exposure. Maximum relief is approximately 35 metres. Greatest elevation changes occur along the east side of the Moira River. Several west facing cliffs can be found in the northwest region of the property.

Most of the property is covered by thick forest growth consisting of mixed hardwood, white pine and spruce forest. A wind storm in 2002 caused considerable amount of dead-fall in the central regions of the property. Recent logging of the deadfall has occurred in an area west of the river and south of the power line. As a result, a new road has been constructed into this area.

Overburden consists primarily of ground moraine deposits of unconsolidated till material. Soils form a thin to moderate cover over most of the property. Till was deposited in the Pleistocene by an ice sheet moving essentially north to south during an event associated with the Wisconsin Glaciation. The till deposits consist gravelly to sandy loam with numerous locally derived pebbles and boulders. Swamp deposits occur in the vicinity to the river and along creeks draining into the river.

# **Previous Work**

In 1961, the first indication of the presence of gold mineralization on the Tudor Property was described by S. B. Lumbers in Ontario Geological Survey (OGS) Report: 67. Lumbers describes sampling an open cut on the north shore of a small pond in the north half of lot 5, concession XIII. The open cut contains a 50 - 60 cm wide quartz vein hosted in potassic rhyolite (felsite unit). The vein assayed 0.01 oz/ton and a sample a felsite wallrock assayed 0.03 oz/ton Au.

Prior to 1961, the assessment files do not contain any record of work conducted on claims comprising the current property or who constructed the pits described by Lumbers. Subsequent exploration of the felsite unit by the author over a 1300 metre section of the unit extending south from the hydro power line has resulted in the discovery of several other pits having no record of construction.

In 1970, Toronto based prospector R. B. England staked the south half of lot 5, concession XIV (currently 820718) thus acquiring historic pits described by Lumbers. England reports assays of 0.06 oz/ton Au from a pit blasted into arsenopyrite mineralization in the felsite unit. England reports a second gold occurrence on the claim. The site of the gold occurrence is reported to be on the hydro power line but the occurrence has not been relocated.

In 1985, Dillman and Chard staked the four claims: 820718 to 820721 inclusive to cover the north half of the felsic body and the gold occurrences found by Lumbers and England. Between 1985 and 1989, work on the claims included: line cutting, magnetic and VLF- electromagnetic geophysical surveys, rock sampling and soil geochemical survey. Most of the surveys were concentrated on the felsite unit. Results of the magnetometer survey defined the felsite body as a distinctive "low" magnetic response compared to the surrounding mafic metavolcanic and metasedimentary units. The VLF survey detected a weak conductor along most of the east side of the felsite unit. A soil survey outlined a 1,300 metre long gold-arsenic anomaly coinciding with the felsite unit. Prospecting revealed several occurrences of gold along the trend with values ranging to 0.24 oz/ton Au.

During the spring of 1989, Hol-Lac Gold Mines Limited optioned the property from Dillman and Chard. Later in 1989, Hol-Lac optioned the property to Homestake Minerals.

In 1989 the property was covered by separate aeromagnetic-VLF-EM surveys preformed by Homestake Minerals and Noranda Mines Ltd.

Between 1989 and 1991, Homestake completed line cutting, geological mapping and trenching over the felsite unit, collected additional soil samples, preformed an induced polarization (IP) survey and completed 335 metres of diamond drilling in 5 drill holes. Results of the IP survey showed weak responses coinciding with Au-As soil anomalies detected over the felsite unit. A second Au-As soil/ IP anomaly was located east of the felsic unit and correlates with potential sheared and Fe-carbonate mafic metavolcanic rocks. The diamond drill program intersected low to substantial gold values in all the holes drilled into the felsite unit. Significant results included an 8 metre interval in DT-90-2 assaying 2.1 g/t. The interval contained a section assaying 6.3 g/t Au over 2.5 metres and included a smaller section of 11.7 g/t across 1 metre. B. Christie, who supervised the work for Homestake summarized the gold bearing zones as "discontinuous shear zones" and Homestake dropped the Tudor option in the spring of 1991.

Homestake also explored in regions north of the Tudor Property. Homestake's work was focused on a 50 to 200 metre wide gold-bearing Fe-carbonated shear zone which was traced by trenching and drilling for a distance of 6 kilometres. Homestake suggested the structure was part of the Moira River Fault Zone. Selected results of Homestake's exploration on claims currently held by Dillman and Chard include reports of rock assays up to 6.2 g/t Au and a drill hole into sheared and silicified metavolcanic rocks which assayed 1.1 g/t Au across 3.3 metres including a smaller interval of 2.1 g/t across 1.3 metres.

In the fall of 1993, Chard preformed additional exploration on the Main Zone with the aid of a grant through the Ontario Prospectors Assistance Program (file: OP93-631). Chard's work included: re-establishing the grid, cleaning and sampling old pits and various mineralized zones, collecting additional soil samples and relocating old drill sites.

In March of 1994, the property was optioned to 1053825 Ontario Inc. and subsequently optioned to Romfield Building Corporation. Using a high-hoe excavator, 18 trenches were excavated across the width of the felsite unit at 50 to 100 metre intervals within a 1,300 metre section of the Main Zone. The trenches exposed a series of 1 to 3 primary shear zones and numerous parallel substructures striking near-parallel to the trend of the felsite unit. The shear zones range up to 3 metres wide and strike between 100 to 700 metres in length. Assay results of rock samples gathered from systematic channel sampling of the trenches averaged 2 to 2.5 g/t with grades ranging up to 72.9 g/t. Better gold grades were found in silicification sections mineralized with disseminated to stringered arsenopyrite and in quartz stringer systems following the shear zones.

Romfield completed 499 metres of diamond drilling in 7 holes during February and March of 1995. Selected results of the program include: an intersection in drill hole DT-95-12 assaying 2.68 g/t Au across 1.8 metres and a lower section of 2.42 g/t Au over 22.6 metres. The lower section included separate intervals assaying 7.59 g/t over 1.8 metres and 3.93 g/t across 5.6 metres. Drill holes DT-95-8 and DT-95-9 collared from the same location 350 metres south of DT-95-12, returned 7.6 g/t across 2.3 metres and 6.47 g/t over 1.4 metres.

In the spring of 1996, Dillman and Chard terminated the option agreement with Romfield.

In1994, local prospector J. Laidlaw completed magnetic and VLF surveys over part of lot 1, concession XV (currently claim number 1195172). He attributes several magnetic and VLF responses as local concentrations of iron formation.

In 1997, Chard staked additional claims surrounding the property. Dillman received an OPAP grant to explore the new claims and in open ground situated south of the property. The work resulted in the discovery of several new gold occurrences and prompted additional claim staking. Several of the new gold occurrences were found in the south extension of the felsite unit hosting the Main Zone. New gold mineralization found faulted rocks in the north region of the property were dubbed the 'Vardy Zone' and represent a second 'style' of gold mineralization on the property.

In 1998, Dillman received an OPAP grant to continue exploring the new gold discoveries. The original base line was extended to cross the entire length of the property and provided some control for a geological mapping program, prospecting, soil sampling and a VLF-EM survey. In July of 2002, several days were devoted by the property owners towards rock sampling some of the gold occurrences on the property.

In November of 2002, all the remaining claims held by Homestake lapsed. Dillman-Chard staked some of the ground with an additional 11 units covered by 7 claims. After staking, Dillman and Chard prospected the new claims. The work confirmed the Vardy Prospect is situated in the same alteration-deformation shear zone as the Homestake drill hole located almost 2 kilometres to the northeast. Along this trend, the property owners also discovered mineralized float and silicified sections within the shear with assays of +1.0 g/t Au.

In early February 2003, Chard re-established the Homestake grid on the new claims. He completed a ground VLF-electromagnetic survey in unison with a magnetometer survey.

In October 2003, the property was optioned to Louvicourt Gold Mines Inc. In the spring of 2004, Louvicourt entered into a joint venture agreement with Rincon Resources. Several claims were added to the south end of the property to cover the Hodgson Prospect.

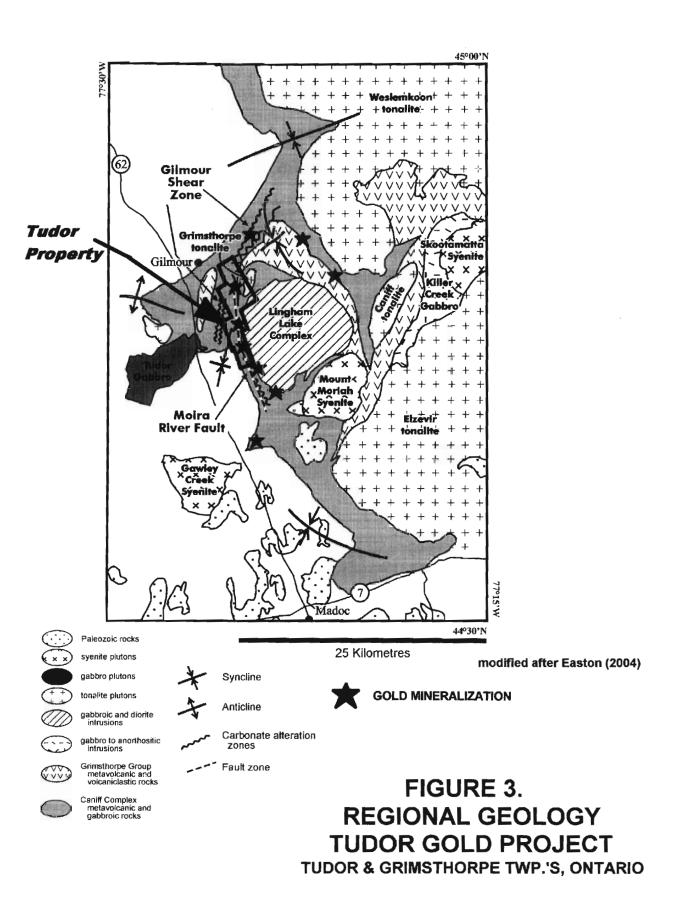
In July and August of 2004, Dillman and Chard mapped and prospected northern areas of the property. The work was preformed on behalf of Rincon. The survey focused on exploring the Vardy-Homestake Zone. New zones of the gold mineralization were found along the structure. Assays of the new mineralization ranged 0.5 - 2 g/t Au. Unable to complete the terms of the option agreement, Dillman and Chard terminated the agreement with Louvicourt in August of 2004.

In the spring of 2005, Dillman and Chard entered into an option agreement with Everock Inc. In November of 2005, Dillman and Chard prospected and mapped geology in the vicinity to the Hodgson Prospect, the Vardy Zone and in the central regions of the property. Some of this work is summarized in this report.

# **Regional and Property Geology**

The Tudor Property is underlain by Proterozoic metavolcanic and metasedimentary units of the Central Mid Metasedimentary Belt of the Grenville Structural Province (Figure 3). The units belong to the Grimsthorpe Domain and are older than 1270 Ma (Easton 1992). Table 2 summarizes the rock units and tectonic history of the Tudor Property.

The property is situated on the boundary of 2 major supracrustal packages within the Grimsthorpe Domain (Figure 4), (Easton 1992), (Easton and Ford 1994). The Canniff Complex which partially occupies the east area of the property was originally interpreted as contact metamorphic rocks by Lumbers (1961). Rocks of the Canniff Complex are considered the oldest on the property are dominated by massive and pillowed tholeiitic metabasalts, metagabbro and metaperidotite. Easton (2004) suggests the Grimsthorpe Group could be separated from the older Canniff Complex by a (para-) unconformity. The Grimsthorpe Group consists mostly of metasedimentary units and minor pillowed and massive tholeiitic metabasaltic flows and felsite tuffaceous units. Metasedimentary rocks in the Grimsthorpe Group vary from fine siltstones to coarser greywacke and conglomerates with clastes derived from local mafic volcanic and gabbroic sources.



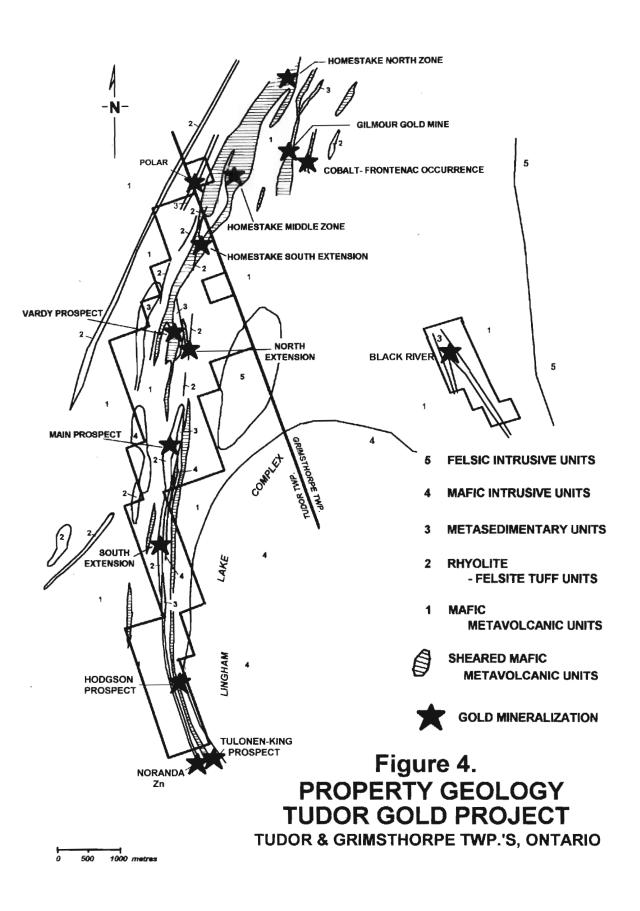


Table 2.Table of FormationsTudor PropertyTudor Twp., Ontario

#### PHANEROZOIC

PROTEROZOIC

CENOZOIC QUATERNARY

RECENT swamp, stream and lacustrine deposits

PLEISTOCENE till, clay, sand and gravel deposits

	PLEISTOCENE	till, clay, sand and gravel deposits
	Unconfo	ormity
POST-MIDDLE OR		tz Fissure Veins and Hydrothermal Atteration? Atteration zones associated with east-west/ northwest-southeast trending faults: gold remobilization?
	Faulting?	East-west and northwest-southeast trending fault development and reactivation.
	Unconfo	ormity
OZOIC	CENTRAL META	SEDIMENTARY BELT
	Granite Fine-gra	dykes ained mafic dykes
	Faulting	reactivation of Gilmour and Moira River Shears: shearing, alteration, gold mineralization?, gold remobilization? East-west and northwest-southeast trending fault development?
	Intrusive	e Contact
	Grimsthorpe Tona	lite/ Trondhjemite 1270 Ma
	Intrusive	e Contact
BELMON	IT AND GRIMSTH	ORPE DOMAINS
	Belmont	1287 to 1250 Ma

1287 to 1250 Ma Calcite marbles, metasiltstone

Unconformity

Lingham Lake Complex 1283+/- 3/-2 to 1281.8+/- 2.8 Ma

(Easton and Koma, 2005)

Biotite diorite 1281.8+/- 2.8 Ma Porphyritic monzodiorite 1283+/- 3/-2 Ma Dykes and sills

#### Intrusive Contact

Faulting

development of Gilmour Shear Zone and Moira River Shear Zone: shearing, alteration and 1 or more gold mineralization events

Grimsthorpe Group 1279.5+/-3.3 Ma (Easton and Koma, 2005) Metasedimentary Units metawacke, metasiltstone, metapelite, rusty schists, magnetite iron formation

Felsite tuff? 1279.5+/-3.3 Ma (Easton and Koma, 2005) Metavolcanic Flows pillowed and massive tholeitic basalt

Unconformity?

Canniff Complex

metavolcanic and metagabbroic rocks

A felsite unit within the Grimsthorpe Group in Tudor Township was dated at 1279+/-3 Ma (Heaman et al.1987) and provides a minimum age of the Canniff Complex and the Grimsthorpe Group (Easton 2004). Further dating of the felsite unit hosting Main Zone by Easton (2005) confirmed this date.

Rocks of the Grimsthorpe Domain strike generally north-south in the central and south sections of the property and gradually trend towards the north-northeast / south-southwest in the north section of the property. Units dip vertical or steeply towards the west and rarely, steeply east.

In the southwest corner of the property, the Grimsthorpe Domain contacts with marble of the Belmont Domain. The Belmont Domain consists of several packages of metavolcanic rocks ranging 1285 to 1250 Ma (Easton 2004) and siliciclastic and ramp-facies carbonate metasedimentary rocks. The contact is not exposed but trends north-south and Easton (2004) suggests that it is likely faulted. At some distance to the north, the contact swings to the west about a synclinal fold. Easton (2004) notes that the major alteration and deformation zones within the metavolcanic rocks of the Grimsthorpe Domain cannot be traced into the Belmont Domain indicating that major structural events and gold mineralization formed earlier.

The Grimsthorpe Domain on the property is partially bounded to the east by gabbroic and dioritic rocks of the Lingham Lake Complex and by the younger Grimsthorpe Tonalite. The Grimsthorpe Domain has also been intruded by small north-south orientated gabbroic dikes, rare granitic dikes and fine-grained mafic dykes of unknown origin.

Metamorphic grade of the Grimsthorpe Domain on the property ranges from lower to middle greenschist facies on the west side of the property and increases to amphibolite facies marginal to the Lingham Lake Complex and Grimsthorpe Tonalite. Common mineral assemblages observed in the Grimsthorpe Domain include chlorite, biotite, garnet and amphibole.

The property is crossed by the north-south orientated Moira River fault (Lumbers 1969). The fault was later referred to as the Moira River Shear Zone by Christie (1990). The structure consists of a series of parallel faults composed of extensive and variable chlorite-sericite-Fe carbonate alteration/deformation zones. Christie (1990) noted two directions of cleavages corresponding to the orientation of the major faults zones: a north to south direction corresponding to the Moira River Fault and a north-northeast to south-southwest orientated fabric which Easton (2004) suggests is related to an older structure referred to as "Gilmore Shear Zone". Easton (2004) suggests the Tudor Property is located at the intersection of the two structures. Subsequent work on the Tudor Property by the author has found evidence suggesting that sections of the structures have undergone 2 to 3 reactivation events and there were corresponding events of hydrothermal activity resulting in the development of guartz veins, stringers and silicification. Further work on the property at the north end of the property found evidence that the Moira River Fault gradually shifts to the northeast and is congruent with alteration-deformation zones of the Gilmore Shear Zone. Lumbers (1969) recognized a third system of faults orientated northwest to southeast. Some faults in this system have caused apparent left-hand displacement to rock units and older fault zones. Small zones of Fe carbonate alteration were observed with some of the older northwest-southeast orientated structures.

# **Gold Mineralization**

The Tudor Property covers 3 prominent gold zones. The Main Zone forms the dominant gold structure in the central section of the property. Gold mineralization in the Main Zone occurs with arsenopyrite and quartz stringers in silicified and sheared felsite. The particular felsite unit hosting the Main Zone strikes across the entire length of the property and is intermittently mineralized with gold across the north extension of the unit. The Vardy Zone and Hodgson Zone are situated in sheared and altered rocks associated with the Moira River Fault. Similar to the Main Zone, gold mineralization in the Vardy Zone is associated with arsenopyrite in quartz stringers and silicification in secondary shear development within the larger structure. Gold mineralization also occurs in sheared-sucrosic quartz veins which may have emplaced before the gold-silicification-quartz stringer event. One result of the recent investigation of the Hodgson Zone suggests the style of gold mineralization changes in the south section of the property. In part, gold is associated with pyrite bearing quartz-carbonate veins occurring in the Moira River Fault. Hodgson (2000) reports the discovery of gold-bearing arsenopyrite in silicified zones within the Moira River Fault but the occurrences were not located by the author.

#### **II. SURVEY PROCEDURE AND RESULTS**

The geological survey has been preformed in 2 segments. Part of the survey focused on mapping in detail the felsite unit hosting the Main Zone. Results of this survey have been plotted on trench plans included with this report. The trenches plans have been compiled at a scale of 1:500 on a geology map detailing the Main Zone. This survey also concentrated on mapping geology in the southern sections of the property which has been recently logged and abounds with new outcrop exposures. Results of this phase of the project have been plotted at a scale of 1:2,500 on two geology maps covering the region: GEO-2006-Main Zone and GEO-2006-South.

During the course of the survey, 81 rock samples were collected for analysis. All samples were sent to SGS Lakefield Research Inc. in Lakefield, Ontario. All the rocks were analyzed for gold using a standard fire assay method preformed on a 30 gram split separated from each sample. High resolution multi-element ICP scans were preformed on 10 of the samples. All assay certificates from the laboratory are appended to this report. Sample locations have been recorded on the trench plans and on the 1:2,500 scale geology maps. Results of the rock assays are plotted on 3 compilation maps which accompany this report. The compilation maps have been reduced by 50% to simplify handling.

## Geology of the Main Zone

The bulk of the gold mineralization forming the Main Zone is contained in a 3 kilometre section of the felsite unit extending southward from the hydro power line. The mineralization is well-exposed in the historic trenches excavated in 1995 by Romfield Building Products Inc. The trenches expose the unit for a distance of 1,300 metres. South of the area of trenching, many new exposures of the felsite unit have resulted from devastation caused by the 2002 wind storm and the subsequent logging activities.

In the north section of the Main Zone, the felsite unit is interbedded with metasedimentary schists of the Grimsthorpe Group. South sections of the unit contact with metavolcanic rocks. Contacts with surrounding rocks unit were observed to be sharp and conformable and occasionally the contacts are faulted by north-south trending biotite-filled structures.

The orientation of the felsite unit hosting the Main Zone changes along strike. Most sections of the unit trend  $N20^{\circ}$  E to  $N25^{\circ}$  E. North of the pond situated south of line 5+75S, the felsite is orientated easterly at  $N45^{\circ}$  E. The change in strike is a result of east-west orientated faults situated under the pond (Lumbers 1969). South of the pond, east-west orientated faults have displaced the unit with left-handed movement.

Along the trend, the dip angle of the unit changes from steeply west to steeply east. North of line 20+00S, dip measurements of schistosity range  $72^{\circ}$  W to  $84^{\circ}$  W. Contact measurements along the east side of the unit which is only exposed in a few trenches, ranges  $78^{\circ}$  W to  $84^{\circ}$  W. It is apparent the schistosity of the felsite unit does not parallel the contacts but intersects at a very slight angle of  $6^{\circ}$  to  $12^{\circ}$ . Exposures of the west contact of the felsite are rare also. Contact measurements with metasedimentary units situated west of the unit in trenches south of the power line range  $80^{\circ}$  W to  $84^{\circ}$  W and lessen to  $76^{\circ}$  W and  $78^{\circ}$  W between Trench 7+50S and Trench 8+00S. Through much of the northern section of the Main Zone, the contacts are obscured by north trending faults and extensive biotite development. South of line 20+00S, the contacts are not exposed and the foliation of the unit changes from vertical to  $80^{\circ}$  E.

Along strike, the width of the felsite unit ranges from a few metres to over a hundred metres wide. Variations in the width of the unit are in part caused by displacement by cross-cutting faults. Between Trench 2+00S and Trench 5+75S, the unit is between 50 to 70 metres wide and is thinning as it strikes under the pond situated south of Trench 5+75S. South of the east-west faulting crossing between Trench 7+50S and Trench 8+00S, the unit widens to 110 metres. Southward from this point, the unit gradually thins to 25 metres wide at 17+50S only to again widen to 110 metres north of line 27+00S. North of the hydro line, the felsite unit is thinning considerably and believed to be truncated by a north striking fault. The felsite unit eventually outcrops again 300 metres north of the power line as a 2 metre wide unit and remains this width across the northern extent of the property. To the south, the felsite unit is also 2 metres wide where it is exposed on the road between concessions 4 and 5, lot 10.

### Alteration

Alteration of the felsite unit is consistent along strike and variations mostly exist locally within and proximal to the shear zones and faults. Biotite-chlorite slickened cleavages form moderate to intense foliation and a crude gneissic appearance. Foliation and other structural features can be total obliterated by mylonitization and introduction of quartz and arsenopyrite rich solutions. Silicification is pervasive in some shears and marginal to shear- and non-shear quartz stringer systems. Historic sampling shows good correlation between gold and arsenopyrite bearing silicification. Quartz stringers accompanying silicified section have been observed to carry native gold and it is possible that later events of quartz stringers may have been gold remobilizing events also. Hematite is present, but shows no correlation with gold.

Weak to intense Fe carbonate is pervasive throughout the felsite unit but the intensity of alteration does not necessarily coincide with mylonitization and gold mineralization. Carbonate alteration appears to have occurred in several events. Late –stage Fe carbonate alteration occurs locally along sections of gabbro dykes which cross all rock units and some mineralized zones. Intense Fe carbonatite alteration occurs in biotite-filled fractures associated with north trending faults. Fe carbonate, sericite and clots of chlorite occur locally and proximal to late-stage white crystalline quartz lenses. Extensive sericite is rare. Notable potassic alteration occurs on the west side of the unit at 17+50S and along the Moira River in lot 8, concession XI were there has been extensive mylonitization and quartz stringers.

### **Faulting and Shearing**

The trenches expose evidence of 3 directions of faulting and shearing. Dextral shears host the bulk of the gold mineralization in the Main Zone and form the oldest, most prevalent structures. Trenches between lines 1+00S to 12+00S expose 1 to 3 prominent shear zones averaging 300 to 400 metres long and numerous parallel *sub*- shears, smaller in width and length. Shear zones in the felsite unit range between a few centimetres to several metres wide and appear to anastomose along strike. Shears dip between  $76^{\circ}$  W to  $80^{\circ}$  W and strike parallel to schistosity of the felsite thus, the shears cross the unit at slight angle or en echelon to the trend. North of the pond at line 5+75S, gold-bearing shear zones trend between  $30^{\circ}$  E to  $40^{\circ}$  E. South of the pond, shear zones trend  $20^{\circ}$  E to  $30^{\circ}$  E. Similar to foliation, shear zones intersect at low angles with the contacts of the unit and do not cross into adjacent rock units. Generally, mylonitization and gold mineralization are intensive in shearing along the east side of the felsite unit and weaken or dissipates towards the west contact. South of Trench 12+00S, shearing only occurs in one zone formed along the east side of the felsite unit. At line 21+00S, parallel shears redevelop and continue for an unknown distance.

The felsite unit, gold-bearing mineralization and surrounding rock units are cut by recessed biotite filled fractures trending N10<sup>0</sup> E to N30<sup>0</sup> E. The fractures are probably components of the Moira River Fault and are believed to be very extensive throughout the area. The structures follow the contacts and tend to coincide with recessive areas of the felsite unit and surrounding rocks. The fractures range as little as one centimetre wide to as large as several metres and dip moderately west to vertical. A 2 metre wide biotite filled fracture situated east of the felsite unit in Trench 12+00S contains large xenoliths of felsite and metasedimentary rocks. Some fractures have fairly straight contacts and others have ragged contacts suggesting the fractures are related to a tensional phase of structural development with no apparent displacement. Carbonate alteration is very pervasive on cleavages in the structures.

Younger east-west to northwest trending faults which were first recognized by Lumbers (1969) cross all rock units and structures. The cross-cutting structures are not exposed in the trenches due to the orientation of the structures but contact displacement and joint patterns provide creditable evidence of the existence and frequency of the crossing structures. Measurements of late-stage joint development which are believed to mimic faulting suggest the faults dip moderately to steeply north and rarely to the south. Late-stage faulting is extensive between the trenches at 5+75S and line 12+00S. Early stage development of the structures may have promoted a phase of shearing and gold emplacement in pre-existing shears proximal to the structures. The late-stage development of the crossing faults has truncated and displaced some of the older gold-bearing structures in the felsite unit and carbonate alteration in mafic metavolcanic rocks and gabbroic dykes. The association of the crossing structures and carbonate alteration suggests a phase of east-west fault development occurred prior to a younger phase of alteration and quartz emplacement.

## **Quartz Veins and Stringers**

Quartz veins are rare within the felsite unit. Most of the veins are short, thin discontinuous structures sparsely mineralized with sulphides. Several of the historic pits located on the north shore of the pond at 5+90S and on the west side of Trench 11+50S were excavated into small quartz vein structures. These veins consist of fine-sucrosic quartz and represent the oldest veining event. Gold mineralization tends to be erratic in the veins and best assay results are reported in sheared felsite marginal to the quartz structures.

Fine-grained grey quartz stringer systems are a significant component of the gold– bearing structures in the Main Zone. The stringers trend parallel with shearing and the felsite unit and do not cross into adjacent rock units. The quartz stringers are usually accompanied by silicification, arsenopyrite and occasionally carry native gold. Quartz stringers were observed in all the trenches and occur within and proximal to shear zones and silica flooding. Slight textural differences observed in different quartz stringer systems suggest the felsite unit has undergone several quartz stringer events.

Irregular masses of white, crystalline quartz occur in the felsite and surrounding rock units and potentially represent a quartz event associated with late-stage fault development and alteration. White quartz is rarely mineralized with sulphides and generally occurs in proximity to cross-cutting faults, Fe carbonate, chlorite and sericite alteration in the felsite unit.

# Gold Mineralization in the Felsite Unit

Gold mineralization in the Main Zone is directly associated with arsenopyrite which occurs as disseminated anhedral and euhedral crystals, stringers and massive clots in shear zones, silicification and quartz stringer systems. Gold mineralization occurs as refractory type mineralization and rarely in native form. Native gold occurs in arsenopyrite stringers in the central area of Trench 12+00S and is reported in quartz stringers in drill holes under trenches 5+75S and 7+50S. Rock samples of arsenopyrite mineralization typically contain low to moderate gold values ranging +200 ppb. Most shear zones are reported to contain intervals averaging greater than 2 g/t gold over widths of +0.5 metres.

During this survey, 22 of rock samples were collected in the trenches and at new sites of mineralization exposed in the felsite unit situated south of the area of trenching. Results are summarized in Table's 3 and 4 and on compilation maps appended to this report.

Results of 22 analyses show persistent gold mineralization along a strike of +3 kilometres in the felsite unit. Selective samples of arsenopyrite mineralization with variable amounts of quartz range up to 18.8 g/t and averaged 4.27 g/t overall. Sixteen of the samples show greater than 1 g/t gold. Some of the best samples were collected in new exposures of footwall mineralization collected south of the area of trenching.

# Geology of Hodgson Zone

The Hodgson Zone is situated in sheared, north-south striking metavolcanic and metasedimentary rock units which are bounded to the east by gabbro and diorite of the Lingham Lake Complex and to the west, by an unconformity and marbles belonging to the Belmont Domain.

Rock units show little alteration west of the Moira River. East of the river, rock units are intensely sheared, deformed and pervasively carbonated. The alteration-deformation crosses the south boundary of the property and follows the river north for several kilometres and extends east for approximately 500 metres to the Lingham Lake Complex.

# Table 3. Rock Sample Results: Main Zone

	Map RS-2006-Main Zor		Claim Number	A.,	Remarke
Sample	GPS Location	Grid	Claim Number	Au	Remarks
Number	NAD 83 Zone 18	Location	Lot Concession	g/t	
1001	297297mE		1076809	0.02	Siliceous metased with trace pyrite and pyrrhotite.
	4961102mN		Lot 7 Con XI N1/2		Best 0.5 m
1002	297505mE		1076809	<0.02	Rusty clear-crystalline quartz, best 0.4 m
	4961059mN		Lot 7 Con XI N1/2		
1003	297519mE		1076809	0.03	FeC altered metavolcanic with traces of pyrite and
	4961027mN		Lot 7 Con XI N1/2		chalcopyrite. Best 0.5 m
1007	297207mE		1076809	<0.02	Silicified metasediment with trace pyrite and pyrrhotite.
	4960412mN		Lot 8 Con XI S1/2		
1008	297185mE		1076809	<0.02	Sheared-silicified FeC metavolcanic with 1% py.
	4960190mN		Lot 8 Con XI S1/2		Best 1 m.
1009	297115mE		1076809	0.05	Sheared-silicified FeC metavolcanic trace pyrite.
	4960740mN		Lot 8 Con XI N1/2		Best 1 m.
1010	297134mE		1076809	3.44	Mylonitized felsite with quartz stringers and patchy
	4961133mN		Lot 8 Con XI N1/2		arsenopyrite Tr5% asp, best 1.0 m
1011	297133mE		1076809	2.63	Same, 1 m south, mylonitized felsite with quartz stringers
	4961132mN		Lot 8 Con XI N1/2		and patchy arsenopyrite Tr5% asp, best 1.0 m
1051	297088mE		1076809	11.3	mylonitized felsite with 1-2 cm arsenopyrite stringers and
	4961236mN		Lot 8 Con XII S1/2		patchy arsenopyrite Tr15% asp, best 0.35 m.
1052	297088mE		1076809	18.8	Same, parallel mineralization 0.5 m east 1-2 cm asp
	4961236mN		Lot 8 Con XII S1/2		stringers and patchy asp Tr15% asp, best 0.3m.
1053	297318mE		1076809	0.20	Sheared-silicified FeC metavolcanic trace pyrite. Best 1 m.
	4961880mN		Lot 7 Con XII N1/2		
1054	297099mE		1076809	3.17	Mylonitized felsite with patchy arsenopyrite and quartz
	4961395mN		Lot 7 Con XII S1/2		stringers Tr5% asp, rubble crop in overturned root.
1055	297099mE		1076809	5.80	Same, mylonitized felsite with patchy arsenopyrite and
	4961395mN		Lot 7 Con XII S1/2		quartz stringers Tr5% asp, rubble crop in overturned root.
1056	297203mE		1076809	1.45	Mylonitized felsite with patchy arsenopyrite and quartz
	4961838mN		Lot 7 Con XII N1/2		stringers Tr5% asp, rubble crop in overturned root.
1057	297203mE		1076809	3.21	Same, mylonitized felsite with patchy arsenopyrite and
	4961838mN		Lot 7 Con XII S1/2		quartz stringers Tr5% asp, rubble crop in overturned root.
1058	296956mE		1076809	0.03	Sheared-silicified FeC metavolcanic trace pyrite.
	4961329mN		Lot 8 Con XII S1/2		Best 1 m
1059	296955mE		1076809	<0.02	Quartz + carbonate stringers with trace py + cpy in sheared
	4961328mN		Lot 7 Con XII S1/2		silicified FeC metavolcanic. Best 1 m.
1060	296817mE		1076809	<0.02	Silicified + FeC, sheared metavolcanic, trace py. Best 0.5 n
	4961237mN		Lot 7 Con XII S1/2		
1061	296805mE		1076809	< 0.02	Silicified + FeC, sheared metavolcanic, trace py. Best 0.5 n
	4961222mN		Lot 7 Con XII S1/2		
1062	297240mE		1195172	<0.02	Multi-element ICP scan, metasediment, trace pyrite
	4964733mN		Lot 4 Con XIV S1/2		
1063	297194mE		1195172	< 0.02	Multi-element ICP scan, magnetite iron formation. 5%
	4964722mN		Lot 4 Con XIV S1/2		magnetite.
1065	297507mE		820719	< 0.02	Sheared-silicified FeC metavolcanic and quartz lenses,
	4962960mN		Lot 5 Con XIII N1/2		trace pyrite. Best 0.5 m.
1076	295913mE		1195192	<0.02	Multi-element ICP scan, sugary, gossaned metased. Best
	4964167mN		Lot 6 Con XIV N1/2		0.5 m.

# Table 4.Rock Sample Results: Main Zone: Trenches

	Map RS-2006-Main Zor			<b>A</b>						
Sample	GPS Location	Grid	Claim Number	Au	Remarks					
Number	NAD 83 Zone 18	Location	Lot Concession g/t							
401	297250mE	0+35W	820720	2.67	Trench 7+50S, middle section of felsite, minor hematite,					
	4963084mN	7+45S	Lot 6 Con XIII N1/2		10% arsenopyrite. Moderate Fe carbonate.					
402	297278mE	0+19W	820720	12.9	Trench 8+00S, felsite, 5% quartz in seams, minor FeC and					
	4963042mN	8+05S	Lot 6 Con XIII N1/2		trace hematite, east contact grab 2.5 m. Christie Zone					
403	297282mE	0+37W	820720	2.21	Trench 8+50S, felsite, 25% quartz in seams, minor FeC and					
	4962980mN	8+63S	Lot 6 Con XIII N1/2		trace hematite, east contact grab 1.5 m. Christie Zone					
404	297287mE	1+27W	820720	0.02	Trench 9+00S, foliated, minor FeC, west contact, garb 1 m.					
	4962935mN	9+05S	Lot 6 Con XIII N1/2							
405	297283mE	0+50W	820720	1.36	Trench 10+00S, felsite, east contact strong FeC, 15%					
	4962865mN	10+05S	Lot 6 Con XIII N1/2		quartz, trace hematite, grab 2 m					
406	297273mE	0+65W	820720	2.29	Trench 10+20S, felsite, east contact, strong FeC, 20%					
	4962840mN	10+25S	Lot 6 Con XIII N1/2		guartz, trace hematite, grab 2 m					
407	297268mE	0+66W	820720	8.66	Trench 10+50S, felsite, strong silicification 25% asp, grab 2					
	4962825mN	10+45S	Lot 6 Con XIII N1/2	0.00	m, east contact-Footwall Zone					
408	297245mE	1+05W	820721	0.58	Trench 11+00S, felsite, foliated, 3% asp, Qtz + FeC, grab					
	4962745mN	10+925	Lot 6 Con XIII S1/2		0.5 m					
409	297229mE	0+98W	820721	0.24	Trench 11+50S, felsite, foliated, 2% asp and FeC in seams					
	4962720mN	11+40S	Lot 6 Con XIII S1/2	0.2.	grab 0.5 m.					
410	297222mE	1+14W	820721	11.2	Trench 12+00S, VG Zone, felsite with asp stringers, rep.					
	4962678mN	11+95S	Lot 6 Con XIII S1/2		0.25 m					
411	297302mE	0+94W	820721	2.68	Trench 13+00S, Footwall Zone, felsite, foliated, minor FeC,					
	4962592mN	12+97S	Lot 6 Con XIII S1/2	2.00	3% asp. Grab 2 m					
412	297322mE	0+97W	820721	0.03	Trench 14+00S, Footwall Zone, felsite 0.5% asp, Grab 1 m					
	4962497mN	13+92S	Lot 6 Con XIII S1/2	0.00						
413	297267mE	0+14W	820719	0.15	Trench 5+75S, felsite, strong FeC, east contact, 5% asp.					
	4963270N	5+70S	Lot 5 Con XIII N1/2	0.10	Grab 1 m					
414	297327mE	0+42W	820718	1.07	Trench 5+00S, FeC, brecciated and schistose, grab 0.5 m					
	4963362mN	4+98S	Lot 5 Con XIVI S1/2	1.07						
415	297460mE	2+02W	820718	0.88	Trench 1+00S, felsite, FeC, silicified 1% asp, grab 0.5 m					
	4963760mN	1+095	Lot 5 Con XIVI S1/2	0.00						

# Table 5. Rock Sample Results: Hodgson Zone

Sample	e: Map RS-2006-Hodgs GPS Location	Grid	Claim Number	Au	Remarks				
Number	NAD 83 Zone 18	Location	Lot Concession	g/t					
1012	297295mE 4959938mN		3000330 Lot 8 Con IX N1/2	0.02	Strong FeC, weak silicification, trace py. Best 1 r				
1013	297278mE		3000330	<0.02	Float, strong FeC, weak silicification, trace py.				
	4959920mN		Lot 8 Con IX N1/2		Best 1x1x0.5 m, angular.				
1014	297278mE		3000330	<0.02	Rusty metasediment, trace pyrite.				
	4959032mN		Lot 8 Con IX N1/2	0.26	Amphibolitized metavolcanic, 1 cm amphibole				
1015	297242mE 4959790mN		3000330 0.26 Lot 8 Con IX N1/2		crystals, 1 cm sulphide stringer 2% po + py, no FeC				
1016	297550mE 4959225mN	4959225mN		<0.02	Weak FeC, metavolcanic, trace py. Best 0.5 m.				
1017	297527mE		3000330 Lot 8 Con IX N1/2	<0.02	Strong FeC, qtz-carb stringers, 5% py in 1.5 cm stringers trace cpy. Best 1 m.				
1018	4960057mN 297550mE		3000330	<0.02	Felsite, 1% py, quartz , moderate FeC, best 1 m				
1010	4959225mN		Lot 8 Con IX N1/2	-0.02	reisite, 1 % py, qualiz, moderate reo, best r m				
1019	297597mE 4959312mN	297597mE		0.09	Strong FeC, qtz-carb stringers, trace py + cpy. Best 1 m.				
1020	297614mE		3000330	0.04	Strong FeC, trace py. 1% disseminated				
	4959397mN		Lot 8 Con IX S1/2		magnetite. Best 1 m.				
1021	21 297622mE 4959440mN		3000330 Lot 8 Con IX S1/2	0.05	Strong FeC, trace py + cpy. Best 1 m.				
1022			3000331	0.03	Muli-element ICP scan, rusty metasediment, trad				
	4959728mN		Lot 9 Con VII N1/2		- 5% pyrite in stringers. Best 2 m				
1023	297788mE		3000331	0.02	Muli-element ICP scan, rusty metasediment, trac				
1024	4959728mN 297407mE		Lot 9 Con VII N1/2 3000332	0.25	- 5% pyrite in stringers. Best 2 m. Strong FeC, qtz-carb stringers, trace py + cpy.				
1024	4958308mN		Lot 9 Con VIII S1/2	0.25	Best 1 m.				
1025	297810mE		3000331	0.07	Muli-element ICP scan, rusty metasediment, trad				
	4957725mN		Lot 9 Con VII N1/2		- 5% pyrite in stringers. Best 5 m				
1026	297815mE 4957725mN		3000331 Lot 9 Con VII N1/2	0.02	Muli-element ICP scan, rusty metasediment, trad – 5% pyrite in stringers. Best 5 m				
1027	297820mE		3000331	< 0.02	rusty metasediment, trace – 5% pyrite in stringer				
	4957725mN		Lot 9 Con VII N1/2	0.01	Best 5 m				
1028	297825mE		3000331	0.02	rusty metasediment, trace - 5% pyrite in stringer				
- 1000	4957725mN 297438mE		Lot 9 Con VII N1/2 3000331	13.1	Best 5 m Quartz-FeC vein, 0.5 m crossing schistosity, trad				
1029	4957875mN		Lot 10 Con VII N1/2	13.1	py + cpy.				
1030	297547mE		3000331	0.03	Strong FeC, trace py + cpy. Float, 0.5x0.5x0.4 m				
	4957760mN		Lot 9 Con VII N1/2		angular.				
1031	297547mE 4957760mN		3000331 Lot 9 Con VII N1/2	0.09	Strong FeC, 10% py + trace cpy. Best 1 m				
1032	297547mE		3000331	0.03	Qtz-carb vein 5 cm , 1% py, trace cpy.				
	4957760mN		Lot 9 Con VII N1/2	•					
1033	297475mE		3000331	0.02	Strong FeC biotite schist, trace py + cpy. Best 1				
1034	4957935mN 297474mE		Lot 9 Con VII N1/2 3000331	0.03	Strong FeC, weak silicification, trace py. Best 1				
1034	4957935mN		Lot 9 Con VII N1/2	0.05	Strong FeC, weak silicitication, trace py. Best 1				
1035	297476mE		3000331	0.02	Strong FeC, weak silicification, trace py. Best 1				
	49577936N		Lot 9 Con VII N1/2						
1036	297476mE 4957937mN		3000331 Lot 9 Con VII N1/2	<0.02	Strong FeC biotite schist, 5% patchy po + py + cpy. Best 0.5 m.				
1037	297478mE		3000331	0.08	Strong FeC, qtz-carb stringers, trace py + cpy.				
	4957936mN		Lot 9 Con VII N1/2		Best 1 m.				
1038	297555mE 4957242mN		3000331 Lot 9 Con VII N1/2	<0.02	Strong FeC biotite schist, trace py + cpy. Best 1				
1039	297346mE		3000332	0.03	Multi-element ICP scan, rusty metasediment,				
	4958640mN		Lot 9 Con VIII N1/2	0.00	trace pyrite in 3 cm stringers. Best 1 m				
1040	297457mE		3000332	0.07	Strong FeC, 5% py + trace cpy. Best 1 m				
1041	4958182mN		Lot 9 Con VIII S1/2	<0.02	Strong EoC 194 ny + trans ony Boot 1				
1041	297457mE 4958182mN		3000332 Lot 9 Con VIII S1/2	<0.02	Strong FeC, 1% py + trace cpy. Best 1 m				
1042	297395mE		3000332	0.14	Rusty felsite with quartz, trace py, 0.5 m				
-10.15	4958517mN		Lot 9 Con VIII S1/2						
1043	297395mE 4958517mN		3000332 Lot 9 Con VIII S1/2	0.05	Strong FeC felsite?, 15% clots of py + trace cpy Best 1 m				
1044	297394mE		3000332	0.02	Rusty felsite with sericite and guartz, trace py, 0				
	4958516mN		Lot 9 Con VIII S1/2		m				

Sample Number	GPS Location NAD 83 Zone 18	Grid Location	Claim Number Lot Concession	Au g/t	Remarks				
1045 297393mE 4958518mN			3000332 Lot 9 Con VIII S1/2	<0.02	Sheared metavolcanic, gossaned, FeC, best 0.5 m.				
1046	297392mE 4958710mN		3000332 Lot 9 Con VIII N1/2	<0.02	Rusty quartz with 1 cm tourmaline seam.				
1047	297387mE 4958549mN		3000332 Lot 9 Con VIII N1/2	0.12	Gossaned FeC-biotite schist, best 1m.				
1048	297395mE 4958772mN		3000330 Lot 9 Con IX S1/2	<0.02	Rusty quartz, rep. 0.25 m.				
1049	297435mE 4958382mN		3000332 Lot 9 Con VIII S1/2	<0.02	Strong FeC, trace py + cpy, 1% disseminated magnetite. Best 1 m.				
1050	297411mE 4958373mN		3000332 Lot 9 Con VIII S1/2	<0.02	Strong FeC, trace py. 1% disseminated magnetite. Best 1 m.				
1087	297425mE 4957970mN		3000331 Lot 9 Con VII N1/2	73.7	2 cm blue quartz-Fec vein striking north in FeC schist, patchy cpy 1-5%, trace py. Rep 0.25 m				
1088	297425mE 4957970mN		3000331 Lot 9 Con VII N1/2	1.16	Same, FeC wallrock, trace py.				
T-1	297425mE 4957970mN		3000331 Lot 9 Con VII N1/2	0.05	Resample 1030, ICP scan				
T-2	297425mE 4957970mN		3000331 Lot 9 Con VII N1/2	0.18	Resample of 1087, ICP scan. 1300g/t Cu				

Shearing and alteration following the river is associated with several steeply-dipping, parallel north-south striking faults belonging to the Moira River Fault. Faulting is well-exposed in outcrops along the river north of the road in southwest corner of Lot 9, Concession VIII and further east along the road in outcrops exposed southeast of the cabin in Lot 9, Concession VII. Faulted outcrops close to the river exhibit well-developed vertical to steeply west dipping north trending joints and schistosity. Towards the east, the faults are marked by wide zones of less-schistose, intensely mylonitized-recrystallized, carbonated rocks.

East of the faulting at the river, dextral series of carbonated shear zones possibly associated with the older Gilmour Shear Zone radiate outward from the Moira River Fault and strike northeast towards the Lingham Lake Complex. Shearing and alteration of the northeast trending structures is very similar to the intensity exhibited by rocks faulted by the Moira River Fault. Distinction of the two different structures is difficult but can be made on the basis of orientation which has been accredited to Christie (1990) and by an association with northeast trending topographic lineaments. Both structures are crossed by younger northwest-southeast orientated faults which show some left-hand displacement.

Carbonate flooding is extensive in sheared rocks situated east of the river. Silicification was not observed in the area. Quartz-carbonate stringers and veins are abundant and more prevalent when compared to alteration-deformation zones situated in the northern extent of the property. Sulphide mineralization is widespread and is frequently associated with clots of chlorite and quartz. The majority of sulphides consist of coarse anhedral masses of pyrite and fine traces of chalcopyrite. Occasionally, fine disseminated magnetite is an accessory with sulphides occurring in some northeast trending shear zones.

Metasedimentary units situated east of the river are strongly schistose but show little evidence of shearing. Some finer grained units contain graphite horizons and are accompanied by fine quartz and calcite stringers which trend parallel to the schistosity. Vein quartz was noted in coarser, clastic beds. Metasedimentary units are characteristically rusty due to widespread disseminated to stringered pyrite and rarer pyrrhotite.

Felsite rocks occur both east and west of the river. Felsite units located west of the river show little deformation or alteration. This includes the particular felsite unit hosting the Main Zone which crosses the road in Lot 10, Concession VII. A similar felsite unit was found exposed in the northwest corner of the Lot 10, Concession VIII. East of the river, felsite units are sheared, extensively carbonated and some contain good quantities of pyrite associated with white micas and quartz.

Marbles belonging to the Belmont Domain occur in the southwest section of the map area but were not examined in detail. Some carbonate alteration which may require further investigation was observed in marble boulders found close to the contact in the north half of Lot 10, Concession VII on the west claim boundary of 3000331. The contact between the Grimsthorpe Domain and the Belmont Domain does not appear to be exposed.

# **Discussion of Results**

By all standards, the historic trenches and new outcrop exposures along the felsite unit reveal a sizable gold deposit. Assay results show pervasive gold mineralization along strike and the presence of economic grades at certain intervals in the deposit.

Gold mineralization occurs with arsenopyrite in sheared-mylonitized felsite, silicification and quartz stringers which are confined to the felsite unit. The most extensive mineralization occurs in a 1,200 metre section extending south from the power line to Trench 12+00S. Southward, the deposit is linear for roughly 900 metres until parallel shearing redevelops and continues for approximately an additional 1,000 metres to form a total length over 3 kilometres.

Towards the north, the felsite unit thins but continues to the northern boundary of the property. Gold mineralization is intermittent along strike and could be evidence of gold mineralization occurring at depth similar in extent to that of the Main Zone. Northern sections of the felsite unit are paralleled by the Vardy Zone and a smaller felsite unit with anomalous gold mineralization.

Further exploration of the Main Zone should be directed to establishing the vertical continuity of the gold deposit by diamond drilling. To date, historic drilling has tested two sections of the deposit with 18 shallow-inclined drill holes. All drill holes into the unit are reported to have intersected gold mineralization comparable to surface exposures and provide some evidence of the continuity of mineralization with depth.

Exploration in the vicinity to the Hodgson Zone reveals the particular area is situated on extensive carbonate alteration – deformation zones associated with the Moira River Fault and the Gilmour Shear Zone. Structurally, the area is similar to that of the Vardy-Homestake Zone situated in the north section of the property. The area around the Hodgson Zone abounds with sulphide mineralization associated with shearing, quartz veining and extensive carbonate flooding and is somewhat similar in style to mineralization found in shear zones situated east of the Vardy-Homestake Zone.

Gold mineralization in the vicinity to the Hodgson Zone was detected in quartz-carbonate veins situated close to faulting along the Moira River. Initial field observations of these structures suggest the veins are small and discontinuous. A resample of the site showing 73.7 g/t failed to show any significant concentrations of gold and may indicate gold mineralization is coarse and erratic.

Unfortunately, zones of arsenopyrite and silicification as reported by Hodgson were not found during this survey and some additional exploration to relocate of the Hodgson discoveries is required. Exploration should also focus on exploring areas west of the river since there is no record of exploration in these areas. North trending topographic lineaments situated in lot 9, concessions V and VI are considered good targets as possible fault zones associated with the Moira River Fault and potential sites of additional gold mineralization.

# **Conclusion and Recommendations**

The Main Zone is a sizable gold occurrence and warrants further investigation as a potential economic gold deposit. A 10,000 metre diamond drill program is recommended as the next phase of exploration of the deposit. The program should consist of systematically drilling the zone with shallow and steep inclined holes centered at 10 metre intervals along strike. The program would provide dimensions and gold grades of mineralized zones to accurately determine tonnage, grade and economic potential of the deposit. Gold bearing intersections from the program can also be used for metallurgical tests to determine best methods for gold recover.

A systematic ground exploration program is recommended over the Hodgson Zone. The program would combine additional geological mapping with prospecting and a "B" horizon soil geochemical survey for gold and arsenic.

A cost estimate for the drill program on the Main Zone and additional surface exploration surveys on the Hodgson Zone includes:

Drill Mob/ Demobilization	\$20,000
Diamond Drilling 10,000 metres @ \$70/metre	700,000
Core Boxes	10,000
Drill Supervision	100,000
Drill Helper	75,000
Metallurgical Tests and Analyses	100,000
Geological Mapping, Prospecting, Soil Collection	35,000
Soil and Rock Analyses	10,000
Lodging, Food	25,000
Transportation	25,000
Reports, Maps	50,000
	\$1,150,000

Respectfully submitted,

Robert James Dillman Arjadee Prospecting

P.Geo

Robert Dillman P.Geo

January 28, 2007



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# **Daily Log Tudor Property** Tudor Twp., Ontario 2005-2006

Date	Personnel
Oct 19/05	R. Dillman
Oct 20/05	R. Dillman
	J. Chard
Oct 21/05	R. Dillman
	J. Chard
Oct 22/05	R. Dillman
	J. Chard
Oct 23/05	R. Dillman
0-+ 04/05	J. Chard
Oct 24/05	R. Dillman J. Chard
Oct 25/05	R. Dillman
	J. Chard
Oct 26/05	R. Dillman
	J. Chard
Oct 27/05	R. Dillman
Aug 25/06	R. Dillman
Aug 26/06	R. Dillman
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Aug 27/06	R. Dillman
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Aug 28/06	R. Dillman
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Aug 29/06	R. Dillman
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Aug 30/06	R. Dillman
	J. Chard
Aug 31/06	R. Dillman
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Sept 29/06	R. Dillman J. Chard
Sept 30/06	J. Chard R. Dillman
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Oct1/06	Dillman

Area
Lot7, Conc. XI & XIIV Lot7, Lot8 Conc. XI & XIIV Lot 8, 9, 10 Con IX, Con VII Lot 9, Lot 10 Con VII Lot 9, Lot 10 Con VII Lot 9 Con VII Lot 4 Con VII
Lot 5, Conc. XIII Lot 5, Conc. XIII Lot 5, Conc. XIII Lot 5, Conc. XIII Lot 5, Conc. XIII Lot 6, Conc. XIII Lot 6, Conc. XIII Lot 6, Conc. XIII Lot 6, Conc. XIII Lot 6, Conc. XIII
Lot6, Conc. XIII Lot6, Conc. XIII

Area

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# CERTIFICATE

I, ROBERT JAMES DILLMAN, do hereby certify as follows:

- [1.] I am a **Mining Exploration Geologist** and that I reside and carry on business at **8901 Reily Drive,** in the town of **Mount Brydges, Ontario.**
- [2.] I am a Graduate of the University of Western Ontario, and hold a Bachelor of Science Degree and majored in Geology.
- [3.] I have been practicing my profession as a **Geologist** since **1992**.
- [4.] I am a Licenced Prospector in Ontario and have been actively engaged as a **Professional Prospector** since **1978**.
- [5.] My report, dated January 28, 2007, titled: "REPORT OF GEOLOGICAL MAPPING AND ROCK SAMPLING: MAIN ZONE AND HODGSON ZONE, TUDOR GOLD PROPERTY, TUDOR TOWNSHIP, ONTARIO," is based on information collected by myself between October 20, 2005 and January 28, 2007. Other information which has been gathered from additional sources has been cited in this report.
- [6.] The information given in this report is as **accurate** as to the best of my knowledge and I have **not stated false information** for personal gain.
- [7.] I **authorize** the use of this report or any part of if **proper credit** is given to the original author.
- [8.] I have 50% interest in the property.
- [9.] I am a member of the Canadian Institute of Mining.
- [10.] I am a member of the Association of Professional Geoscientists of Ontario, APGO No. 530.

ROBERT JAMES DILLMAN, B.Sc. GEOLOGIST

Dated at Mount Brydges, Ontario This 28th day of January, 2007



HU 8:46 FAX SGS LAKEFIELD



SGS Lakefield Research Limited P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO Phone: 705-652-2038 FAX: 705-652-6441

#### R. Dillman

ONLINE LIFE

Attn: : 8901 Relly Drive RR5 Mount Brydges, Ont, N0L 1W0 CANADA

Phone: 519-264-9278 Fax:519-264-9278 002/006

Stime

Thursday, December 01, 2005

Date Rec.: 10 November 2005 LR Report: CA03072-NOV05 Client Ref: November 8, 2005

# CERTIFICATE OF ANALYSIS

# **Final Report**

Sample ID	Au	Ag	Al	As	Ba	Be	BL	Ca	Cd	Co	Cr	Cu	Fe	K	L
	g/t	g/t	g/t	g/t	g/t	g/t	g/t	git	g/t						
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16: 1020	0.04			_											
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18: 1022	0.03	< 2	54000	< 50	260	2.6	< 20	10000	< 5	22	42	210	98000	11000	11
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21: 1025	0.07	< 2	54000	< 50	270	1.0	< 20	16000	< 5	26	32	52	77000	13000	< 8
22: 1026	0.02	< 2	48000	< 50	280	1.0	< 20	2200	< 5	19	39	140	84000	17000	13
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LR Report : CA03072-NOV05

Sample ID	Au	Ag	A	As	Ba	Be	BI	An	Cd	of the second second second			Fe.	COLUMN TWO IS NOT	LI
	g/t	g/t	g/t	g/t	g/t	g/t	git	g/t	g/t	g/t	g/t	g/t	g/t	g/t	g/1
33: 1037	0.08		_		-			_						_	_
34: 1038	< 0.02			_								-			
35: 1039	0.03	< 2	32000	< 50	230	1.1	< 20	480	< 5	70	49	350	260000	12000	< 8
36: 1040	0.07			_	—		-		_		_				
37: 1041	< 0.02	_							_						
38: 1042	0.14	_			_			_			_				
39: 1043	0.05							_							_
40: 1044	0.02												_		
41: 1045	< 0.02	_				-			_				_		
42: 1046	< 0.02					_		~~	_						_
43: 1047	0.12	_							_	_				_	
44: 1048	< 0.02		_			_	_								
45: 1049	< 0.02									_					
46: 1050	< 0.02		_		_		_			_					-
47: 1051	11.3						_								-
48: 1052	18.8				_										_
49: 1053	0.20	< 2	60000	740	62	0.62	< 20	7000	< 5	7	5.6	52	34000	2800	< 8
50: 1054	3.17	_				_						_		_	
51: 1055	5.80		_		_				_						
52: 1056	1.45														

Sample ID	Mg	Mn	Mo	Na	N	P.	Pb	Sb	Se	Sn	Sr	T	TI	V	Y	Zn
			g/t	ġ/t	g/t	g/t	g/t	g/t	g/t	g/t	g/t	g/t	g/t	g/t	g/t	g/t
33: 1037	_			_	_	_										
34: 1038	_				—											
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38: 1042															_	
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42: 1046								_	_					_		_
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44: 1048		_					_				-				_	
45: 1049																_
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LR Report : CA03072-NOV05

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Sample ID	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe		Ē
	g/t	g/t	g/t	gh	g/t	g/t	gh	g/t.	g/t	g/t	gft	g/t.	g/t	gAt	g/t
53: 1057	3.21				_					_					
54: 1058	0.03	_							_		—			—	
55: 1059	< 0.02										—				
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57: 1061	< 0.02	_									—				—
58: 1062	< 0.02	< 2	<b>4400</b> 0	< 50	17	1.6	< 20	21000	< 5	15	27	56	170000	880	< 8
59: 1063	< 0.02	< 2	73000	< 50	82	< 0.08	< 20	95000	< 5	66	300	220	72000	3100	< 8
60: 1064	< 0.02									—					
61: 1065	< 0.02		_												
62: 1066	0.18								_						
63: 1067	17.8				_				_				<u> </u>		
64: 1068	0.48						_								
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66: 1070	18.9						_	-			_				_
67: 1071	0.16	_	_					-							_
68: 1076	< 0.02	_		_		´ <u></u>									
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Sample ID	Mg	Mn	No.	Na	NI	P	Pb	Sb	Se	Sn	Sr	T	T	Y	Y	Zn
		g/t	g/t	g/t	g/t	g/t	g/t	g/t	g/t	gh	g/t	g/t	g/t	g/t	g/t	gh
53: 1057						_		_					-	_		
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58: 1082	15000	1800	< 5	3200	22	910	< 200	< 10	< 30	< 20	150	2700	< 30	150	25	110
59: 1063	49000	920	< 5	18000	120	< 30	< 200	< 10	< 30	< 20	290	3900	< 30	190	18	38
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63: 1067											<del></del>					
64: 1068				_			_				_			-		
65: 1069						_										
66: 1070								-			_			_		
<b>67: 107</b> 1			_													
68: 1076	—	_								_						
69: 1077		—	_	-									-		_	
70: 1078								_								
71: 107 <del>9</del>		~								_						
72: 1080						_				—						

OnLine LIMS

Door 4 of 5



2



ONLINE LIPIS

SGS Lakefield Research Limited P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO Phone: 705-852-2038 FAX: 705-652-6441

LR Report : CA03072-NOV05

Sample ID	Au	Ag	A	As	Ba	Be	Bi	Cæ	Cd	Co	Cr	Cu	Fe	K	L
	g/t	g/t	g/t	g/t	g/t	g/t	g/t	g/t	g/t	gi/t	git	g/t	g/t	g/t	g/
73: 1081	0.58				-		_	_			-		_		-
74: 1082	0.18	_													
75: 1083	< 0.02	_				_	_								
76: 1084	< 0.02							_							-
77: 1085	< 0.02											_			
78: 1086	0.02		_						****				_		-
79: 1087	73.7						-			_	_	_			
80: 1088	1.16											_			_
81-DUP: 1024	0.24														
82-DUP: 1044	0.02	_			_		_	_							-
83-DUP: 1064	< 0.02		_												
84-DUP: 1063		< 2	75000	< 50	77	< 0.08	< 20	97000	<5	64	290	210	74000	2900	<
85-REP: 1055	5.62								_						_

Sample ID	Mg	Mn	Mo	Na	N	P	Pb	Sb	Sa	Sn.	"Sr	TC	TL	V	Y	Zn
	g/t	g/t	gít	g/t	= g/t	g/t	g/t	g/t	gh	gh.	g/t	gh	g/t	g/t.	g/t	g/t
73: 1081		_		-		_										
74: 1082		_						_		—		—			—	
75: 1083		_		_												
76: 1084																
77: 1085	_															
78: 1086			_		~									_		—
79: 1087		_														
80: 1088	—	_		-						_	_					—
81-DUP: 1024		_									_					
82-DUP: 1044	·					-			-							
83-DUP: 1064		_		_			- 200			_						
84-DUP: 1063	50000	920	< 5	18000	120	< 30	< 200	< 10	< 30	< 20	280	3800	< 30	190	17	42
85-REP: 1055		_		_												-

Daldon N. Debbie Waldon

Project Coordinator, Minerals Services, Analytical

SGS Lakefield Research Limited P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO Phone: 705-652-2038 FAX: 705-652-6441

# R. Dillman

Attn : Robert Dillman / Jim Chard

8901 Reily Drive, RR #5 Mount Brydges, ON, NOL 1W0

# Friday, January 19, 2007

Date Rec.: 12 January 2007 LR Report : CA03078-JAN07 Client Ref: Tudor Property

Phone: 519 264 9278 Fax:519 264 9278

OnLine LINS

# CERTIFICATE OF ANALYSIS

# Final Report

Sample ID	Au g/t
1: Sample # 0401	2.67
2: Sample # 0402	12.9
3: Sample # 0403	2.21
4: Sample # 0404	0.02
5: Sample # 0405	1.36
6: Sample # 0406	2.29
7: Sample # 0407	8.66
8: Sample # 0408	0.58
9: Sample # 0409	0.24
10: Sample # 0410	11.2
11: Sample # 0411	2.68
12: Sample # 0412	0.03
13: Sample # 0413	0.15
14: Sample # 0414	1.07
15: Sample # 0415	0.88

Daldon k1

Debbie Waldon Project Coordinator, Minerals Services, Analytical

Page 1 of 1
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General Conditions of Services located at http://www.sgs.com/terms\_and\_conditions\_service.htm. (Printed copies are available upon request.)
Test method information available upon request.

- 33 -

2 001/002



SGS Lakefield Research Limited P.O. Box 4300 - 185 Concession St. Lakefield - Ontarlo - KOL 2HO Phone: 705-852-2038 FAX: 705-352-6441

R. Dillman Attn : R. Dillman

8001 Reily Drive RR5 Mount Brydges, Ont, NOL 1W0 CANADA

Phone: 519-264-9278 Fax:519-264-9278

CIMS . Outline

Date Rec. : 05 June 2006 LR Report : CA03026-JUN06

Friday, June 16, 2006

# **CERTIFICATE OF ANALYSIS**

# **Final Report**

Analysis	1: 2: 3: 4: 5: CA-1 CA-2 CA-3 CA-4 T-1	6 T-2
Ag [g/1]	<2	<2
Al [g/t]	16000	6900
As [g/t]	< 30	< 30
Ba [g/t]	320	640
Be [g/t]	0.10	0.20
Bi [g/t]	< 20	< 20
Ca [g/t]	1500	3300
Cd (g/t)	< 2	<2
Co [g/i]	11	ę
Cr [g/t]	5	20
Cu [g/l]	700	1300
Fe [g/t]	25000	24000
K [9/8]	1800	1600
Li [g/t]	< 5	< {
Mg [g/t]	1600	1700
Mn [g/t]	360	16(
Mo [git]	< 5	< (
Na [g/t]	8400	3100
Ni [g/t]	< 20	< 20
P [g/l]	280	11(
Pb [g/t]	110	200
Sb [ç/t]	< 10	< 1(
Se [g/t]	< 30	< 30
Sn [g/t]	< 20	< 20
Sr [g/t]	42	43
Ti [g/t]	1300	630
Ti (g/t)	< 30	< 30
V [g/l]	220	280

Page 1 of 2 Data reported represents the sample submitted to SGS. Reproduction of this encloses period in full or in part is probabilited without prior written approval. Please refer to SGS General Conditions of Services located at http://www.sis.com/teams\_and\_conditiones\_period.html. (Picrted copies are available upon request.) Test method information available upon request.



b. b

CUSINGE LEUR

h.,

SGS Lakefield Research Limited P.O. Box 4360 - 185 Concession St. Lakefield - Ontario - KOL 2HO Phone: 705-652-2038 FAX: 705-652-6441

LR Report : CA03026-JUN06

Analysis 1: 2	3: 4: 5:	6:
CA-1 CA-	2 CA-3 CA-4 T-1	T-2
Y [g/t]	13	6.8
Zn [g/t]	39	74
Au (git)	0.05	0.18
Pt [g/t]		
Pd [g/t]		

Jaldon HAR Debble Waldon

Project Coordinator, Minerals Services, Analytical

Page 2 c<sup>2</sup> 2 Data reported represents the sample submitted to SGS. Reproductive of this analytical report in full or in part is prohibited without price written approval. Planse refer to SGS General Conditions for Services located at http://www.sgs.com/dems.and\_conditions\_stervice.ittm. (Printed copies are available upon request.) Test method information previous proceeds.

# Way Point List Tudor Gold Property Tudor Twp. Ontario NAD 87 Zone 18

WP-1 WP-2 WP-3	297549mE. 4960028mN. 297293mE. 4960030mN. 297326mE. 4960129mN.
WP-4	297271mE. 4960191mN
WP-5	297285mE. 4959694mN.
WP-6 WP-7	297345mE. 4959400mN. 297353mE. 4959227mN.
WP-7 WP-8	297548mE, 4959227mN.
WP-9	297608mE. 4959306mN.
WP-10	297584mE. 4959669mN.
WP-11	297788mE. 4957708mN.
WP-12	297490mE. 4957932mN.
WP-13	297553mE. 4957821mN.
WP-14	297577mE. 4957809mN.
WP-15	297746mE. 4957715mN.
WP-16	297955mE. 4957747mN.
WP-17	297785mE. 4957679mN.
WP-18	297903mE. 4957623mN.
WP-19	297968mE. 4957552mN.
WP-20	298078mE. 4957277mN.
WP-21	298106mE. 4957138mN.
WP-22	297595mE. 4957234mN
WP-23	297609mE. 4957658mN
WP-24	297532mE. 4957757mN 297356mE. 4958003mN
WP-25 WP-26	296978mE. 4957770mN
WP-20 WP-27	297435mE. 4958180mN
WP-28	297342mE. 4958322mN
WP-29	297404mE. 4958489mN
WP-30	297402mE. 4958507mN
WP-31	297371mE. 4958655mN
WP-32	297418mE. 4958775mN
WP-33	297514mE. 4958785mN
WP-34	297679mE. 4958646mN
WP-35	297657mE. 4958600mN
WP-36	297502mE. 4958289mN
WP-37	296783mE. 4958679mN
WP-38	296825mE. 4959252mN
WP-39	296886mE. 4959840mN

Way Point List Tudor Gold Property Tudor Twp. Ontario NAD 87 Zone 18

WP-1	297549mE. 4960028mN.	WP-49
WP-2	297293mE. 4960030mN.	WP-50
WP-3	297326mE. 4960129mN.	
WP-4	297271mE, 4960191mN	WP-60
WP-5	297285mE, 4959694mN.	WP-61
WP-6	297345mE 4959400mN	WP-62
WP-7	297353mE. 4959227mN.	
WP-8	297548mE, 4959238mN,	
WP-9	297608mE. 4959306mN.	
WP-10	297353mE. 4959227mN. 297548mE. 4959238mN. 297608mE. 4959306mN. 297584mE. 4959669mN.	
WP-11	297788mE. 4957708mN.	1 J
WP-12	297490mE. 4957932mN.	
WP-13	297553mE. 4957821mN.	
WP-14	297577mE. 4957809mN.	
WP-15	297746mE. 4957715mN.	
WP-16	297955mE. 4957747mN.	
WP-17	297785mE. 4957679mN.	
WP-18	297903mE. 4957623mN.	
WP-19	297968mE. 4957552mN.	
WP-20	298078mE. 4957277mN.	
WP-21	298106mE. 4957138mN.	
WP-22	297595mE. 4957234mN	
WP-23	297609mE. 4957658mN	
WP-24	297532mE. 4957757mN	
WP-25	297356mE. 4958003mN	
WP-26	296978mE. 4957770mN	
WP-27	297435mE. 4958180mN	
WP-28	297342mE. 4958322mN	
WP-29	297404mE. 4958489mN	
WP-30	297402mE. 4958507mN	
WP-31	297371mE. 4958655mN	
WP-32	297418mE. 4958775mN	
WP-33	297514mE. 4958785mN	
WP-34	297679mE. 4958646mN	
WP-35	297657mE. 4958600mN	
WP-36	297502mE. 4958289mN	
WP-37	296783mE. 4958679mN	
WP-38	296825mE. 4959252mN	
WP-39	296886mE. 4959840mN	

WP-49	297152mE. 4964568mN
WP-50	296955mE. 4964553mN
WP-60	296956mE. 4961329mN
WP-61	296791mE. 4961208mN
WP-62	296724mE. 4961092mN

