



## 2010 Prospecting and Sampling Program

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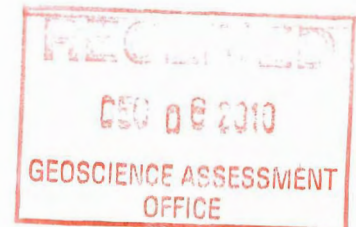
## Frontline Gold's Shabumeni Project

Red Lake Mining Division

Goodall and Skinner Townships  
Shabumeni Lake and Little Shabumeni Lake Areas

52 N/02 & 07

Prepared By:



November 26, 2010

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## **Abstract**

Between September 14<sup>th</sup> and September 29<sup>th</sup>, 2010 a prospecting and sampling program was carried out on Frontline Gold's Shabumeni Project by employees of Frontline Gold Inc. of Bedford, Nova Scotia with the help of one local prospector. Clark Exploration Consulting of Thunder Bay, Ontario was contracted by Frontline Gold Inc. of Bedford, Nova Scotia, to write and submit the assessment report on the 2010 Shabumeni Project prospecting and sampling program.

The Shabumeni Project is located approximately 80 kilometres east-northeast of the town of Red Lake, Ontario. The Project consists of 5 separate claim blocks (properties) each consisting of contiguous, unpatented mining claims for a grand total of 349 units covering 5,584 hectares. The properties are known as Confederation Lake (9 units), Shabumeni Lake (256 units), Shabumeni River (15 units), Skinner (39 units) and Woman River (30 units).

The focus of the 2010 exploration program was to follow up on prospective kimberlite targets identified by Jilbey in 2003 as well as on previously unknown mineral occurrences located in the 2007 exploration program on the Shabumeni Lake property. Prospecting was also carried out on the Woman River and Skinner properties in an attempt to locate new gold showings.

In the 2010 work program the Kimberlite targets were prospected but did not turn up any prospective float or outcrop with mafic-intermediate metavolcanics being located within 20 meters of both W19 and W20. While historical pits and trenches were located (along with old drillcore) 21 sample were taken with only one exceeding 100 ppb Au (sample 194047 at 580 ppb Au).

Sampling on the Skinner property returned the best results of the program with 3 samples assaying in the multi-gram range. Sample 194182 assayed 19.71 g/t Au, sample 194200 assayed 13.59 g/t Au and sample 194180 ran 6.83 g/t Au. Sample 194183 assayed at 900 ppb Au. The prospecting program revealed a series of historical trenches, with the two highest values coming from rusty quartz veins containing chalcopyrite and arsenopyrite in the same trench on the NE portion of claim 4254145.

A total of 6 samples were taken on the Woman River property on the first day. While good mineralization was noted in the form of chalcopyrite and arsenopyrite, no significant gold values were obtained with only 2 samples registering gold values just over detection limit.

While the 2010 surface program was successful in locating prospective mineralization, only a few samples off of the Skinner property contained significant gold values. It is the belief of the author that the Skinner and Shabumeni Lake properties remain highly prospective for gold mineralization, and that the Woman River claim block remains underexplored. Various recommendations are made for each property.

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### 1.0 Introduction

Between September 14<sup>th</sup> and September 29<sup>th</sup>, 2010 a prospecting and sampling program was carried out on Frontline Gold’s Shabumeni Project by employees of Frontline Gold Inc. of Bedford, Nova Scotia with the help of one local prospector. Clark Exploration Consulting of Thunder Bay, Ontario was contracted by Frontline Gold Inc. of Bedford, Nova Scotia, to write and submit the assessment report on the 2010 Shabumeni Project prospecting and sampling program.

The focus of the 2010 exploration program was to follow up on prospective kimberlite targets identified by Jilbey in 2003 and the previously unknown mineral occurrences located in the 2007 exploration program on the Shabumeni Lake property. Prospecting was also carried out on the Woman River and Skinner properties.

### 2.0 Property Description

The Shabumeni Lake Project is located approximately 80 km east-northeast of Red Lake, Ontario (Fig. 1).

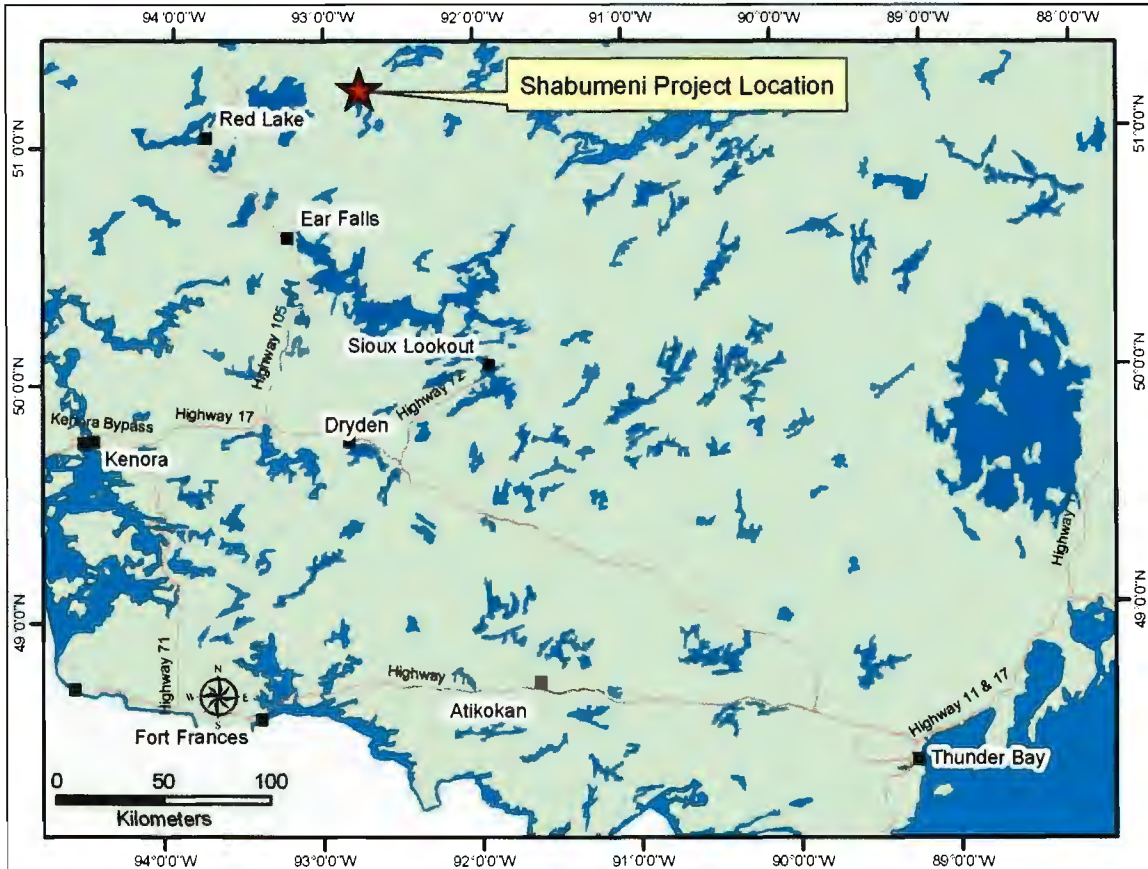


Figure 1: Shabumeni Project location map.

The Shabumeni Project consists of 5 separate claim blocks (properties) each consisting of contiguous, unpatented mining claims for a grand total of 349 units covering 5,584 hectares. The properties are known as Confederation Lake (9 units), Shabumeni Lake (256 units), Shabumeni River (15 units), Skinner (39 units) and Woman River (30 units) (Table 1, Fig. 2).

**Table 1: Frontline Gold claim details.**

Project	Township /Area	Claim Number	Recording Date	Claim Due Date	Percent Option	Work Required	Total Applied	Total Reserve
Confederation Lake	GOODALL	<u>1248644</u>	2002-Apr-08	2013-Apr-08	100%	\$3,600	\$32,400	\$21,602
Shabumeni Lake	SHABUMENI LAKE AREA	<u>1247895</u>	2003-Jul-28	2015-Jul-28	100%	\$2,400	\$24,000	\$3,101
Shabumeni Lake	SHABUMENI LAKE AREA	<u>1248661</u>	2002-Apr-08	2011-Apr-08	100%	\$6,400	\$44,800	\$0
Shabumeni Lake	SHABUMENI LAKE AREA	<u>1248663</u>	2002-Apr-08	2011-Apr-08	100%	\$6,400	\$44,800	\$0
Shabumeni Lake	SHABUMENI LAKE AREA	<u>1248665</u>	2002-Apr-08	2011-Apr-08	100%	\$6,000	\$42,000	\$0
Shabumeni Lake	SHABUMENI LAKE AREA	<u>1248666</u>	2002-Apr-08	2011-Apr-08	100%	\$1,200	\$8,400	\$0
Shabumeni Lake	SHABUMENI LAKE AREA	<u>1248667</u>	2002-Apr-08	2011-Apr-08	100%	\$6,000	\$42,000	\$0
Shabumeni Lake	SHABUMENI LAKE AREA	<u>4207408</u>	2006-Sep-26	2011-Sep-26	100%	\$6,000	\$18,000	\$0
Shabumeni Lake	SHABUMENI LAKE AREA	<u>4211605</u>	2006-Jul-27	2011-Jan-27	100%	\$6,400	\$12,800	\$0
Shabumeni Lake	SHABUMENI LAKE AREA	<u>4211606</u>	2006-Jul-27	2011-Jul-27	100%	\$6,400	\$19,200	\$0
Shabumeni Lake	SHABUMENI LAKE AREA	<u>4211607</u>	2006-Jul-27	2011-Jul-27	100%	\$6,400	\$19,200	\$0
Shabumeni Lake	SHABUMENI LAKE AREA	<u>4219831</u>	2007-May-31	2011-May-31	100%	\$800	\$1,600	\$0
Shabumeni Lake	SHABUMENI LAKE AREA	<u>4219846</u>	2007-May-31	2011-May-31	100%	\$6,400	\$12,800	\$0
Shabumeni Lake	SHABUMENI LAKE AREA	<u>4219848</u>	2007-May-31	2011-May-31	100%	\$6,400	\$12,800	\$0
Shabumeni Lake	SHABUMENI LAKE AREA	<u>4219849</u>	2007-May-31	2011-May-31	100%	\$6,400	\$12,800	\$0
Shabumeni Lake	SHABUMENI LAKE AREA	<u>4219850</u>	2007-May-31	2011-May-31	100%	\$6,400	\$12,800	\$0
Shabumeni Lake	SHABUMENI LAKE AREA	<u>4219855</u>	2007-May-31	2011-May-31	100%	\$1,600	\$3,200	\$0
Shabumeni Lake	SHABUMENI LAKE AREA	<u>4219856</u>	2007-May-31	2011-Feb-28	100%	\$6,400	\$6,400	\$0
Shabumeni Lake	SHABUMENI LAKE AREA	<u>4219876</u>	2007-May-31	2011-Feb-28	100%	\$4,800	\$4,800	\$0
Shabumeni Lake	SHABUMENI LAKE AREA	<u>4219879</u>	2007-May-31	2011-Feb-28	100%	\$2,680	\$10,120	\$0
Shabumeni Lake	SHABUMENI LAKE AREA	<u>4219898</u>	2007-May-31	2011-Feb-28	100%	\$2,400	\$2,400	\$0

Project	Township /Area	Claim Number	Recording Date	Claim Due Date	Percent Option	Work Required	Total Applied	Total Reserve
Shabumeni Lake	SHABUMENI LAKE AREA	<u>4222413</u>	2007-Aug-23	2011-Feb-23	100%	\$6,400	\$6,400	\$0
Shabumeni River	LITTLE SHABUMENI LAKE AREA	<u>1248641</u>	2002-Apr-08	2011-Apr-08	100%	\$4,792	\$46,408	\$0
Skinner	SKINNER	<u>4219847</u>	2007-May-31	2011-May-31	100%	\$6,400	\$3,200	\$0
Skinner	SKINNER	<u>4254144</u>	2010-Apr-12	2012-Apr-12	100%	\$6,400	\$0	\$0
Skinner	SKINNER	<u>4254145</u>	2010-Apr-12	2012-Apr-12	100%	\$6,400	\$0	\$0
Woman River	GOODALL	<u>1248647</u>	2002-Apr-08	2010-Dec-08	100%	\$1,445	\$40,555	\$0
Woman River	GOODALL	<u>1248648</u>	2002-Apr-08	2011-Apr-08	100%	\$6,000	\$42,000	\$0

Each property can be accessed by:

Confederation Lake: Float or ski equipped plane, boat  
 Shabumeni Lake: Float or ski equipped plane, +/- boat  
 Shabumeni River: Float or ski equipped plane  
 Skinner: Logging road  
 Women River: Float or ski equipped plane, boat

Exploration crews can be accommodated at the fishing resorts that are accessible via secondary roads leading northeast off highway 105 at Ear Falls. Some of these resorts provide flight services and boat rentals.

Lakes cover approximately 10-35% of the properties. Topography is generally gentle with elevations ranging from 400 to 440 meters above sea level. A mixed forest of mostly spruce, balsam, poplar and birch covers the claims, with swampy vegetation in low-lying areas and local areas of forest blow-down.

Temperatures range from highs of 35° C in summer to lows of -30° C in winter, with snow cover between November and May. The best season for exploration is between June and October, although in lake covered or swampy areas exploration activities such as geophysical surveys and diamond drilling might best be conducted after winter freeze up.

The Red Lake district, population 4,700, is located at the end of Highway #105 which is 175 km north of Kenora on the Trans-Canada highway. The town is serviced by regular air flights from Thunder Bay and Winnipeg, 7 days a week. The local population includes skilled tradesmen and experienced underground miners. All necessary supplies are available locally or in Winnipeg and Thunder Bay.

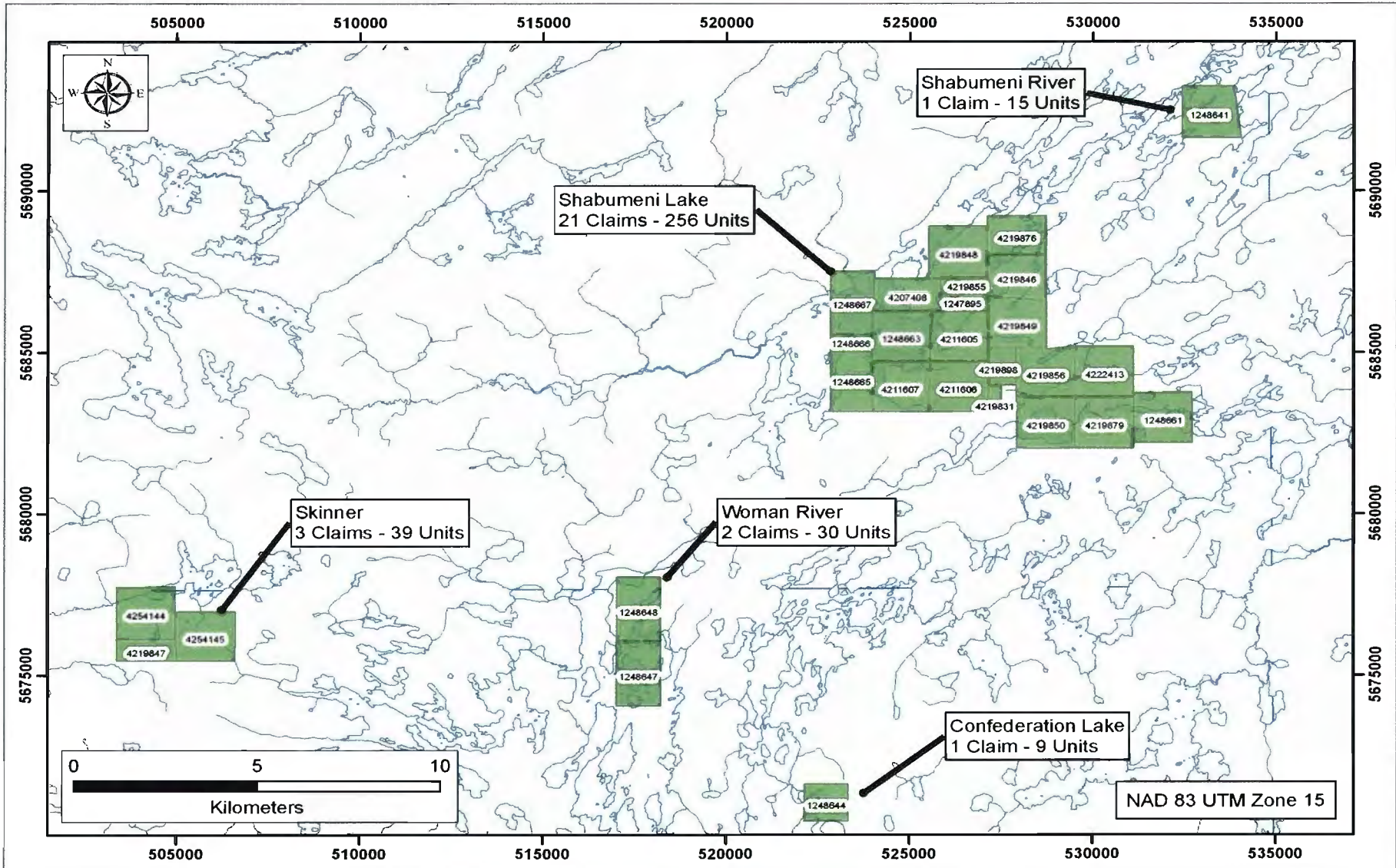


Figure 2: Shabumeni Project individual properties.



### 3.0 Geological Setting

#### 3.1 Regional Geology

The Shabumeni Properties lie within the Archean Birch-Uchi Greenstone Belt of the western Uchi Subprovince of NW Ontario (Fig. 3). This belt records a stratigraphic history that spanned approximately 290 Ma, involving repeated episodes of rifting, and associated depositional and magmatic phases. Unconformity-bounded sequences of mafic to felsic volcanic strata and primarily clastic sedimentary strata accumulated between ca. 2992 Ma and 2700 Ma upon a complex extensional architecture, which largely formed the template upon which later compressional structures were superimposed.

Supracrustal strata in the belt have been subdivided into 3 volcano-sedimentary mega-cycles (Stott & Corfu 1992, Thurston 1985) each comprising variably mafic to felsic volcanic strata and subordinate clastic sedimentary strata. From oldest to youngest these mega-cycles are comprise the following assemblages:

- The Balmer Assemblage (2987 Ma) is primarily an Fe-tholeiitic sequence of mafic volcanic strata, with minor interbeds of banded iron formation. The distribution of this assemblage is restricted to the extreme western edge of the Birch-Uchi Belt immediately adjacent to the Trout Lake Batholith.
- The Woman Assemblage (2858 Ma) is also primarily an Fe-tholeiitic sequence of mafic volcanic strata, with minor interbeds of banded chemical sediments and pyritic siltstones and shales. This assemblage is unconformable or paraconformable on the Balmer assemblage and occurs along the western edge of the Birch-Uchi Belt stratigraphically above the Balmer Assemblage.
- The Confederation Lake Assemblage (2750-2700Ma) is by far the most aerially extensive assemblage in the belt. It is comprises an assemblage of intermediate to felsic flows and pyroclastic strata, which are unconformably overlain by conglomeratic to argillaceous rift-related sediments. The Confederation Lake Assemblage also has minor interbeds or banded iron formation.

See Table 2 below for the table of lithologies relating to the Birch-Uchi Greenstone Belt.

At least 3 phases of regional deformation affected the area resulting in the widespread development of folds, axial planar fabrics, and ductile shear zones. D1 deformation involved NW-SE shortening, the development of NE to N-striking folds and faults. Evidence for this D1 event is best preserved in the southern part of the belt in the Confederation Lakes area. D2 deformation involved NE-SW to N-S shortening and the development of ~E-W to WNW-SE striking regional folds, faults and fabrics. This event is manifested to varying degrees throughout the belt from the Casummit Lake area in the north to the Slate Lake area in the south. D3 deformation appears to have involved renewed E-W shortening and is restricted to the northern part of the belt in the

Mink Lake/Casummit Lake area. This shortening event resulted in the buckling of the regional S2 foliation into N-S folds. This event was accompanied by N-S striking S3 crenulation cleavage and ENE plunging F3 fold development.

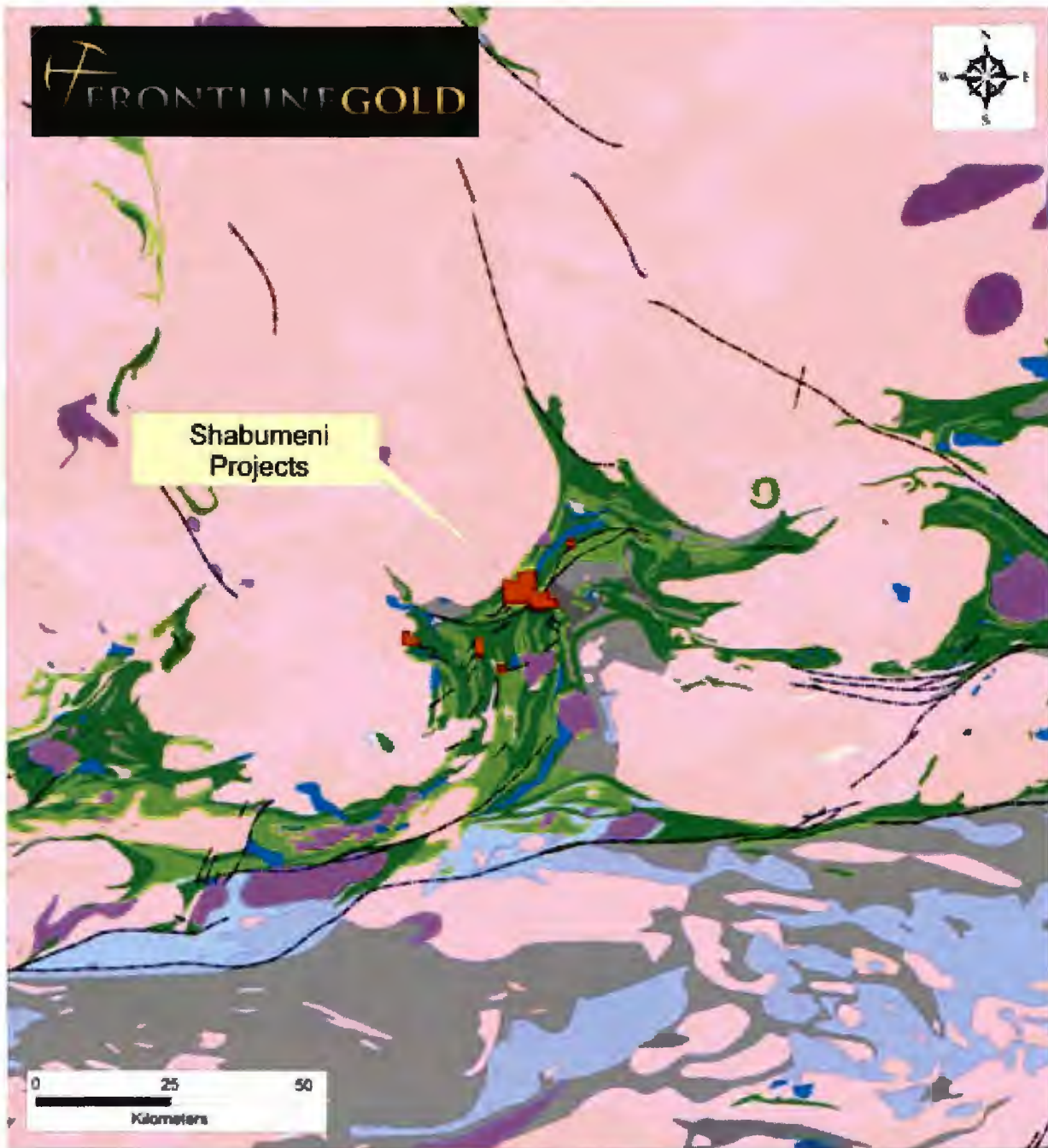


Figure 3: Regional geology of the Birch-Uchi Greenstone Belt showing the locations of the 5 individual properties making up the Shabumeni Project (highlighted in red) (Kleinboeck and Clark, 2007).

Table 2: Table of Lithologies (after Johns, 1979)

## Phanerozoic

## Cenozoic

## Quaternary

## Recent

Swamp, stream, and lacustrine deposits

## Pleistocene

Till, clay, sand, and gravel

*Unconformity*

## Precambrian

## Early Precambrian

## Felsic to Intermediate Intrusive Rocks

Hornblende and biotite diorite, syenodiorite, hornblende and biotite trondhjemite, quartz diorite, hornblende and biotite quartz monzonite to granodiorite, and pink pegmatite

*Intrusive Contact*

## Metamorphosed Felsic to Intermediate Intrusive Rocks

Quartz-feldspar porphyry, feldspar porphyry, mafic feldspar porphyry, and felsite

*Intrusive Contact*

## Metamorphosed Mafic and Ultramafic Rocks

Gabbro, diorite, quartz diorite, quartz gabbro, porphyritic gabbro, serpentized peridotite, serpentized dunite, and pyroxenite

*Intrusive Contact*

## Metasediments

## Chemical Metasediments

Oxide- and sulphide-facies iron formation

## Clastic Metasediments

Wacke, slate, argillite, arenites, arkose, conglomerate, reworked tuff, siltstone, quartz-wacke, quartz arenites

## Metavolcanics

## Felsic Metavolcanics

Flow tuff, lapillistone, lapilli tuff, tuff-breccia, thin bedded flow

## Intermediate Metavolcanics

Flow tuff, pyroclastic breccia, lapilli-tuff, tuff-breccia, spherulitic flow, amygdaloidal and porphyritic flow, autoclastic breccia, flow layered flow

## Mafic Metavolcanics

Porphyritic, glomeroporphyritic, amygdaloidal, massive, and pillowed flows with pillow breccia and coarse-grained centres; pyroclastic rock, autoclastic breccia, variolitic flow, hyaloclastic breccia, hyaloclastite, carbonatized flow, lapilli tuff.

## 3.2 Property Geology

### 3.2.1 *Confederation Lake Property*

With not much activity having been performed on the property it has been noted that pillow basalt is located in outcrop by Gold Crest Minerals, and that massive mafic to intermediate metavolcanics have also been mapped on the property by the OGS (P0592, M2498).

### 3.2.2 *Shabumeni Lake Property*

The northern portion of the property is underlain mainly by volcanic flows and pyroclastics. The northern portion of the property near the gold showings are underlain intermediate pyroclastics overlain in the southeast by mafic pillowed and massive flows and agglomerates. . A narrow horizon of north trending carbonaceous argillite on the large peninsula has been the exploration target in the past. These volcanic rocks are intruded in areas by gabbroic plutons with quartz monzonite cores.

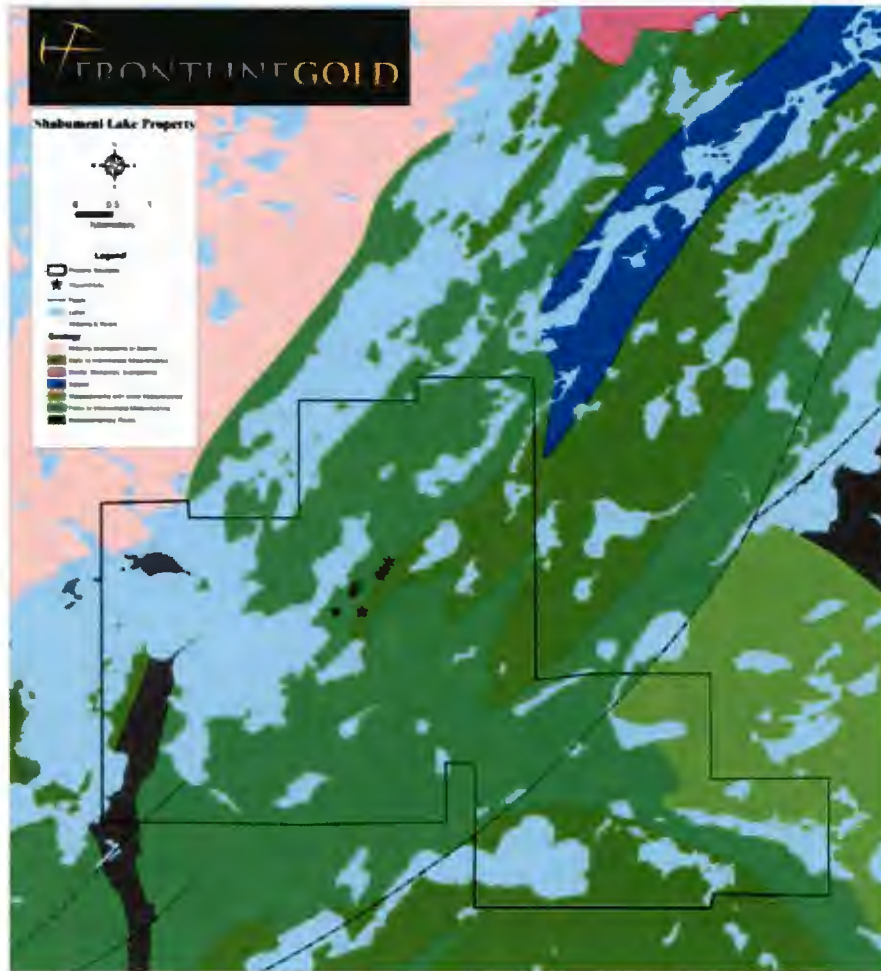


Figure 4: Property Geology of the Shabumeni Lake Property (Kleinboeck and Clark, 2007)

The southern portion of the property is reported to be underlain by dacitic to rhyodacitic tuffs with minor amounts of dacitic agglomerate and massive rhyolitic, rhyodacitic and dacitic lavas (Fig. 5). This southern section of the property covers a portion of a deformation zone that forms an easterly splay off of the regional northeast trending Swain Lake Deformation Zone. The name of Grace Lake Deformation Zone is applied to this east to southeasterly trending deformation zone (Thurston et al., 1981). Both the Swain Lake and Grace Lake Deformation Zones are considered to be strike-slip fault zones. In general, to the north and northeast of the Grace Lake Deformation Zone lies a thick sequence of predominantly clastic metasediments consisting of polymictic conglomerate, greywacke, siltstone, phyllite and magnetite iron formation. To the south of the Grace Lake Deformation Zone lies a package of metavolcanics consisting of pillow basalt, intermediate volcanoclastics and felsic volcanoclastics. There also exists the intermediate to felsic Swain East stock trending SE/NW. The Grace Lake Deformation Zone is host to three gold occurrences within the property boundary: North, South, and Bobarris (Fig. 5).

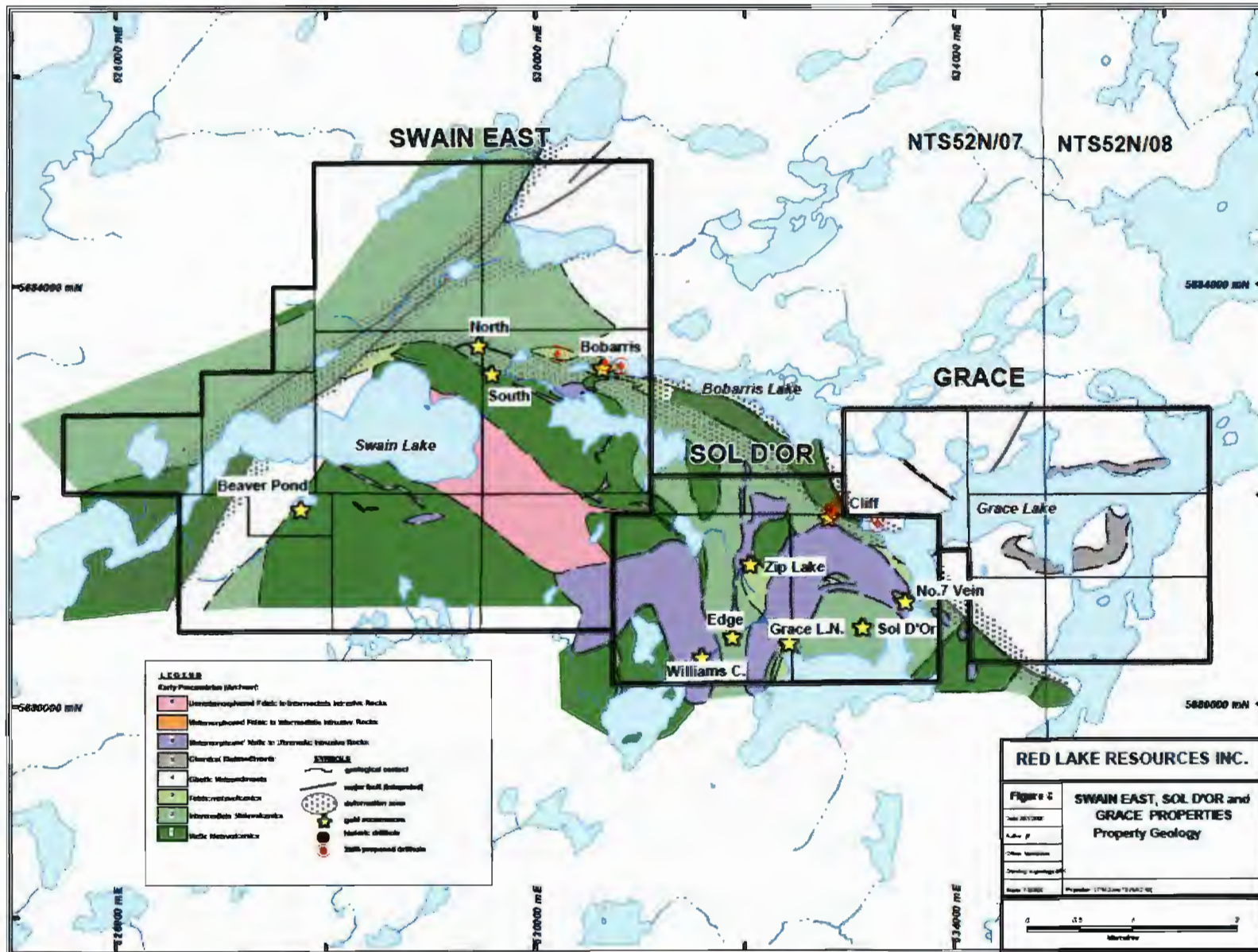


Figure 5: Map showing the location of the deformation zones (Swain Lake trending SW-NE; Grace Lake trending ~E-W) and gold showings on the southern portion of the Shabumeni Lake Property. Boundary of the Shabumeni Lake Property not shown – See Fig. 4. (Klatt et al., 2003)

### 3.2.3 *Shabumeni River Property*

The Shabumeni River Property is mapped as being underlain by the same lithological horizons as that which passes through the Shabumeni Lake Property. Rocks on the property trend northeasterly with intermediate to felsic metavolcanic breccia/tuff breccia (pyroclastic and/or volcanoclastic) mapped in the southeastern corner of the property along with quartz-carbonate veining containing auriferous pyrite (Stone, 1994). Stone (1998) maps this area of with quartz-carbonate veining containing auriferous pyrite as a fault zone/mylonite zone. This unit is then shown to be overlain by a thin section of pillowed mafic metavolcanics that young to the northwest. These pillowed mafic metavolcanics are overlain by a thin unit of intermediate to felsic metavolcanic tuff/lapilli tuff (pyroclastic and/or volcanoclastic) and those, in turn, are overlain by pillowed mafic metavolcanics that young to the northwest. The northwest corner of the property is mapped as a metagabbro.

### 3.2.4 *Skinner Property*

Thurston and Bartlett (1981) along with Stone (1998) show the property sitting on the contact between massive and pillowed mafic volcanics and a granodiorite-granite intrusion. Mapping by Fronteer in 2002 located several small outcrops on the eastern side of the property of mafic volcanics.

### 3.2.5 *Woman River Property*

The Woman River Property is underlain by massive and pillowed mafic metavolcanics, intermediate tuffs +/- tuff breccia +/- spherulitic flows and minor clastic metasediments (pebble/cobble conglomerates and wacke's) (Thurston, 1984).

## 4.0 Exploration History

### 4.1 Confederation Lake Property

1988: Gold Crest Minerals Inc. completed a geophysical and geological survey that covered a small portion of the western portion of this block as part of a larger property.

2003: Jilbey Gold Exploration conducted a ground magnetometer, MMI soil sampling and regional till sampling over a large area containing many claim blocks. The Woman River Property was one of the claim blocks investigated during the 2003 program.

### 4.2 Shabumeni Lake Property

The Shabumeni Lake Property can be divided into a north and south portion when examining the history of exploration.

The exploration on the **south** portion of the claims can be summarized as:

1966: Dome Exploration completed a series of 6 (1908 feet) drill holes that tested a electromagnetic anomaly that trends north south up the peninsula. Assays of the drilling were low but visible gold was noted in a ½ inch quartz carbonate veinlet.

1975-78: McIntyre Mines Limited completed magnetic, electromagnetic and geology surveys and one diamond drill hole on the peninsula area (similar area to Dome)

1987: Dome Exploration went back and completed one hole under the area of the reported visible gold.

2003: Jilbey Gold Exploration Ltd. completed airborne magnetic and electromagnetic surveys followed up by ground magnetic, soils and rock sampling and mobile metal ion (MMI) soil geochemistry.

2005: Jammin Rock Resources completed an airborne Electromagnetic and magnetic survey over the entire property.

2007: Merrex Gold Inc. completed line cutting (40km), geological mapping, prospecting, trenching, and sampling program focusing on the northern half of the property. During this program a new zone was discovered on the eastern shore of Swain Lake during a one day prospecting venture. A total of 8 samples were taken with 5 samples returning anomalous gold values, 2 of which assayed 4.12 g/t Au and 2.38 g/t.

The exploration on the **north** portion of the claims can be summarized as:



Original trenches on quartz sulfides veins completed by unknown operators.

1969: Falconbridge Nickel completed an electromagnetic survey.

1981: Minorex Ltd. staked the northern portion of the property. Geological mapping, magnetic and VLF-EM surveys and assaying were completed and series of eight gold bearing quartz vein zones discovered.

Zone 1 (Main Zone): Composed of four veins with strike length of 280 feet. Veins are sub parallel in a 15 foot wide zone. Vein #3 was best vein with a 104 foot length, 1.62 feet wide averaging 0.12 ounces gold per ton and 0.28 ounces silver per ton.

Zone 2: Thirteen grabs assayed nil to 0.30 ounces gold per ton.

Zone 3: Eight samples nil to 0.02 ounces gold per ton.

Zone 4 (Iceberg): 2 inch to 2 foot quartz veins in a 7 foot shear. Thirteen grabs assayed nil to 0.16 ounces gold per ton.

Zone 5 (Snake): 3 – 5 inch quartz veins at the contact along a gabbro dike. Four assays range nil to 0.65 ounces gold per ton.

Zone 6 (Clap): Quartz veins up to 4 inches in mafic volcanics. Ten samples trace to 0.44 ounces gold per ton.

Zone 7: A series of 2-8 inch quartz veins in the quartz monzonite core of a gabbro intrusion. Fours grab samples assayed nil to 0.23 ounces gold per ton.

Zone 8: At the south end of a gabbro stock a four inch wide quartz lens assayed 0.22 ounces gold per ton.

1987: Marilyn Resources Inc. completed induced polarization, VLF-EM and magnetic surveys over the area defined by Minorex Ltd.. A four hole diamond drill program (~1200 feet) evaluated the two showings and the strike extensions. The program was completed concurrently and the author believed that the holes could have been better targeted if the geophysics was available before drilling.

JG 87-1 intersected 0.4 ounces gold per ton over 3.5 feet and 0.10 ounces gold over 3.0 feet under the Main Zone

JG 87-2 intersected 0.05 ounces gold per ton over 4.0 feet 50 feet north of JG 87-1

JG 87-3 intersected 0.03 ounces gold per ton over 4.0 feet beneath the Iceberg Zone.

JG 87-4 was forecasted to have stopped short of the anomaly.

1990: A. Hagar (Milestone Resources) completed 19 holes in the area of the various gold showings. These holes targeted various IP targets and the known showings. 5 holes under the Main zone, 8 beneath the Clap zone and 1 under the Snake zone.

Hole 1: IP target, 0.30 ounces gold per ton over 1.5 feet.

Hole 6: IP target, 0.04 ounces gold per ton over 4.7 feet.

Hole 11: IP target, 0.06 ounces gold per ton over 1.0 feet.

Hole 13: Main zone, 0.08 ounces gold per ton over 2.3 feet in a quartz vein.

Hole 14: Main zone, 0.12 and 0.10 ounces gold per ton over 1.2. and 2.0 foot quartz veins respectively.

Hole 15: Main zone, 0.08 ounces gold per ton over 1.5 feet in a quartz vein.

Hole 16: Main zone, 6.16 ounces gold per ton over 1.0 feet in a quartz vein.

Hole 19: Snake zone, 0.12 ounces gold per ton over 1.4 feet in a chlorite shear with 10% pyrite.

2003: Jilbey Gold Exploration completed surface sampling on some of the known gold showings as well as completed MMI and ground magnetic surveys to evaluate airborne magnetic anomalies for kimberlite potential.

2006: Merrex Gold Inc. completed surface sampling and humus sampling over some of the known gold occurrences. Two historic showings were grab sampled on the Shabumeni property. The gold results (13 grab samples) from a 70 metre strike length of the east showing included 3 samples ranging from 59 to 387 ppb, 4 samples ranging from 1308 to 2788 ppb, 3 samples ranging from 4456 to 7474 ppb and 3 samples ranging from 22184 to 30395 ppb. The gold results (6 grab samples) from the west showing ranged from 101 to 1259 ppb's. Sampling of the west showing was limited to 20 metres.

2007: Merrex Gold Inc. completed line cutting (40km), geological mapping, prospecting, trenching, and sampling program focusing on the northern half of the property. A total of 39 grab samples, 221 channel samples, 23 ICP, and 43 humus samples were collected during the program. The program succeeded in returning anomalous gold values from both previously known and unknown mineral occurrences on the property. Prospecting was focused on locating the historical showings, and re-sampling them, as well as to follow and expose the

quartz veins for potential mineralization along strike. The most encouraging result was 73.6 g/t Au taken from the Bullwinkle Zone.

#### **4.2 Shabumeni River Property**

1986: Watts, Griffis and McQuat contracted out Aerodat Limited to fly a helicopter based magnetic, electromagnetic, and VLF-EM survey. No further geophysical work was suggested, while drilling was suggested on a narrow magnetic trend along the northwest boundary and on cross-cutting structures within that area.

2003: Jilbey Gold Exploration conducted a ground magnetometer, MMI soil sampling and regional till sampling over a large area containing many claim blocks. The Shabumeni River Property was one of the claim blocks investigated during the 2003 program.

#### **4.3 Skinner Property**

2002: Fronteer Development Corporation investigated what is now claim 4219847 as part of a much larger block situated between the Skinner and Woman River Properties. A series of small outcroppings of mafic metavolcanic rock were mapped in the southwestern portion of the claim indicating one sample being taken returning no gold values.

2003: Jilbey Gold Exploration conducted a ground magnetometer, MMI soil sampling and regional till sampling over a large area containing many claim blocks. The Skinner Property was one of the claim blocks investigated during the 2003 program.

2008: Merrex Gold Inc. conducted a prospecting and humus sampling program on the Skinner property. While a total of 14 rock and 98 humus samples were taken, no significant values were returned.

#### **4.4 Woman River**

2003: Jilbey Gold Exploration conducted a ground magnetometer, MMI soil sampling and regional till sampling over a large area containing many claim blocks. The Woman River Property was one of the claim blocks investigated during the 2003 program.

## 5.0 2010 Exploration Program

Between September 14<sup>th</sup> and September 29<sup>th</sup>, 2010 a prospecting and sampling program was carried out on Frontline Gold's Shabumeni Project by employees of Frontline Gold Inc. of Bedford, Nova Scotia with the help of one local prospector. Clark Exploration Consulting of Thunder Bay, Ontario was contracted by Frontline Gold Inc. of Bedford, Nova Scotia, to write and submit the assessment report on the 2010 Shabumeni Project prospecting and sampling program.

The focus of the 2010 exploration program was to follow up on prospective kimberlite targets identified by Jilbey in 2003 as well as on previously unknown mineral occurrences located in the 2007 exploration program on the Shabumeni Lake property. Prospecting was also carried out on the Woman River and Skinner properties in an attempt to locate new gold showings.

Sample Descriptions can be found in Appendix A along with assay values and certificates found in Appendix C. All samples were sent to Accurassy in Thunder Bay, Ontario.

A daily prospecting log can be found in Appendix B, and field maps found in Appendix D.

### 5.1 Shabumeni Lake

As mentioned earlier, several samples were taken on the northeast shore of Swain Lake during the 2007 prospecting program. During the course of the prospecting program in 2007, only one day was spent in this area with two samples returning assay values of 4.12 g/t Au and 2.38 g/t Au and two samples returning assays of just under 0.5 g/t Au. In addition to these gold showings, there were also two untested kimberlite targets from the 2003 program by Jilbey Gold in 2003. Anomaly W19 was described as a "perfect fit/perfect model" and anomaly W20 a "very good fit, excellent model". Ground-truthing of these two targets was also a priority in the 2010 exploration program on the Shabumeni Lake Property.

In the 2010 work program the Kimberlite targets were prospected but did not turn up any prospective float or outcrop with mafic-intermediate metavolcanics being located within 20 meters of both W19 and W20. While historical pits and trenches were located (along with old drillcore) 21 sample were taken with only one exceeding 100 ppb Au (sample 194047 at 580 ppb Au).

### 5.2 Skinner

Sampling on the Skinner property returned the best results of the program with 3 samples assaying in the multi-gram range. Sample 194182 assayed 19.71 g/t Au, sample 194200 assayed 13.59 g/t Au and sample 194180 ran 6.83 g/t Au. Sample

194183 assayed at 900 ppb Au. The prospecting program revealed a series of historical trenches, with the two highest values coming from rusty quartz veins containing chalcopyrite and arsenopyrite in the same trench on the NE portion of claim 4254145.

### **5.3 Woman River**

A total of 6 samples were taken on the Woman River property on the first day. While good mineralization was noted in the form of chalcopyrite and arsenopyrite, no significant gold values were obtained with only 2 samples registering gold values just over detection limit.

## **6.0 Conclusions and Recommendations**

While the 2010 surface program was successful in locating prospective mineralization, only a few samples off of the Skinner property contained significant gold values. It is the belief of the author that the Skinner and Shabumeni Lake properties remain highly prospective for gold mineralization, and that the Woman River claim block remains underexplored.

### **6.1 Shabumeni Lake**

Focus on the Shabumeni Lake property has been in the northern portion of the claim block. While the 2010 program explored a portion of the southern claims, this area still remains highly prospective. A series of gold showings exists along the Grace Lake Deformation Zone (Figure 5) and these should be located, hand stripped, sampled, and mapped in an attempt to determine controls on gold mineralization. As well, Red Lake Resources spotted 3 proposed drillholes near the Bobarris showing parallel to the Grace Lake Deformation Zone (Figure 5). A three phase program consisting of an in-house data compilation, field locating historical drill collars, relogging old core (if determined it came from holes close to the Grace Lake Deformation Zone) hand stripping of showings, sampling, and mapping would be followed by linecutting and ground geophysics to establish control and help define targets followed lastly by drilling. It is believed that the Grace Lake Deformation Zone is underexplored and has potential to host significant gold mineralization.

### **6.2 Skinner**

The Skinner property has not undergone significant gold exploration in recent times. This field season saw significant gold assays returned from historical trenches on the property. The Skinner property also sits within 2 kilometers of the historical Bathurst Lake Gold Mine which produced ~300 oz of Au during the late 1920's. The Skinner property sits within similar geology to the Bathurst Lake Gold Mine as well as in a favourable location for lode gold mineralization (mafic volcanics +/- mafic-ultramafic intrusives along the contact with a granitic intrusion). Due to the proximity of the Skinner Property to a logging road, a stripping and trenching program is warranted in and around the trench that returned the high gold assays from the 2010 field program. This would further delineate the extent of the gold mineralization as well as providing a better idea of controls on gold mineralization.

### **6.3 Woman River**

While the Woman River did not return any significant gold values it does sit in a favourable geological position. Because chalcopyrite was noted in the samples from the 2010 program, it is recommended that the pulps be assayed for Cu. A data compilation for the property is warranted to determine future recommendations.

## 7.0 References

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## **Appendices**

**Appendix A**  
**Sample Descriptions**

Number	Sample	Easting	Northing	Lithology	Mineralization
1	194026	517960	5677588	Inter volcanic, outcrop	slight
2	194027	517899	5677567	Inter volcanic, outcrop	slight
3	194028	517198	5675916	Inter volcanic, outcrop	calco pyrite
4	194029	517193	5675195	Inter volcanic, outcrop	calco, arseno
5	194030	529662	5682468	Mafic Volcanic outcrop	calco
6	194031	529805	5682368	Inter volcanic, outcrop	calco, arseno
7	194032	529849	5682377	Inter volcanic, outcrop	calco, arseno
8	194033	531058	5683547	Inter volcanic, outcrop	calco
9	194034	531074	5683528	Volcanic Shales, Outcrop	calco
10	194035	531934	5683380	Quartz Outcrop	no visible sulphides
11	194036	531921	5683374	Inter volcanic/shale outcrop	calco, arseno
12	194037	531920	5683374	Quartz vein/Intervolcanic outcrop	calco
13	194038	531837	5683373	Quartz Outcrop	no visible sulphides
14	194039	528758	5683427	Quartz float	slight sulphides
15	194040	529303	5683460	Shale Witht quartz stringers	calco, arseno
16	194041	518030	5677683	Inter volcanic outcrop	calco, arseno
17	194042	517345	5675933	Inter volcanic, outcrop	calco
18	194043	517345	5675928	Inter volcanic, outcrop	pyrite
19	194044	529708	5682607	Mafic Volcanic outcrop	pyrite
20	194045	531939	5683437	Inter volcanic, outcrop	calco, arseno
21	194046	528959	5683360	Inter volcanic, outcrop	calco pyrite
22	194047	530687	5682383	Quartz vein in intervalcanic OC	no visible sulphides
23	194048	531990	5683451	Inter volcanic, outcrop	calco pyrite
24	194049	529154	5684885	Quartz vein in intervalcanic OC	no visible sulphides
25	194050	530022	5682417	Inter volcanic, outcrop	calco pyrite
26	194176	529320	5683476	Inter volcanic, outcrop, quartz stringers	calco pyrite, arseno
27	194177	529313	5683472	Quartz vein rusted	no visible sulphides
28	194178	530620	5682321	Inter volcanic, outcrop	calco pyrite, arseno
29	194179	506088	5676208	volcanic outcrop, old trench	calco pyrite
30	194180	506094	5676210	Intervolcanic quartz stringers outcrop	calco, in the volcanics
31	194181	506097	5676210	Quartz vein rusted volcanic outcrop	calco, arseno
32	194182	506226	5676565	rusted quartz vein, outcrop	arseno, calco
33	194183	506215	5676569	old trench workings inter volcanic/quartz	calco, arseno
34	194191	506098	5676210	old trench, volcanics quartz veining,	sulphides, mainly in volcanics
35	194192	505770	5675617	intervalcanic outcrop	calco pyrite
36	194200	506221	5676560	Old trech intervalcanic rusted, Quartz veining	calco, Arseno pyrite

\* UTM Coordinates are in NAD83, UTM Zone 15N

**Appendix B**  
**Daily Log**

**September 14, 2010**

Regan Isenor  
Dan MacDonald  
Lloyd Quedent

Regan and Dan travelled from Toronto to Thunder Bay and Thunder Bay to landing east of Ear Falls. We met with Tom From Woman Lake Lodge who picked us and our supplies up and we headed up to Woman Lake Lodge. Lloyd took a different route up to his camp on Swain Lake, which is where he stayed for the duration of the trip.

**September 15, 2010**

Regan Isenor  
Dan MacDonald  
Lloyd Quedent

Lloyd boated over from Swain and met us at the lodge. Today was spent prospecting and sampling on the northern portion of claim 1248647 and the northern portion of 1248648 of the Woman River Block.

**September 16, 2010**

Regan Isenor  
Dan MacDonald  
Lloyd Quedent

This morning we boated over from Woman Lake Lodge and met Lloyd at his camp. After two more portages we spent today prospecting the eastern-most kimberlite target (W20) on claim 1248661.

**September 17, 2010**

Regan Isenor  
Dan MacDonald  
Lloyd Quedent

This morning we boated over from Woman Lake Lodge and met Lloyd at his camp. After two more portages we spent today prospecting the eastern-most kimberlite target (W20) on claim 1248661.

**September 18, 2010**

Regan Isenor  
Dan MacDonald  
Lloyd Quedent

Boated over from Woman Lake Lodge and met Lloyd at his camp. After two more portages we spent today prospecting the eastern-most kimberlite target (W20) again on claim 1248661.

**September 19, 2010**

Regan Isenor  
Dan MacDonald  
Lloyd Quedent

Boated over from Woman Lake Lodge and met Lloyd at his camp. After two more portages we spent today prospecting the eastern-most kimberlite target (W19) on claim 4219879.

**September 20, 2010**

Regan Isenor  
Dan MacDonald  
Lloyd Quedent

Boated over from Woman Lake Lodge and met Lloyd at his camp. After two more portages we spent today prospecting the eastern-most kimberlite target (W19) again on claim 4219879.

**September 21, 2010**

Regan Isenor  
Dan MacDonald  
Lloyd Quedent

Boated over from Woman Lake Lodge and met Lloyd at his camp. Spent the day prospecting the area below the small lake at the end of the first portage on 4219879.

**September 22, 2010**

Regan Isenor  
Dan MacDonald  
Lloyd Quedent

Boated over from Woman Lake Lodge and met Lloyd at his camp. Spent the day prospecting the area south of the portage to the small lake on 4219879.

**September 23, 2010**

Regan Isenor  
Dan MacDonald  
Lloyd Quedent

Boated over from Woman Lake Lodge and met Lloyd at his camp. Spent the day prospecting the area north of Swain Lake's eastern shore on 4219850.

**September 24, 2010**

Regan Isenor  
Dan MacDonald  
Lloyd Quedent

Boated over from Woman Lake Lodge and met Lloyd at his camp. Spent the day prospecting the area north of Swain Lake's eastern shore on 4219856.

**September 25, 2010**

Regan Isenor  
Dan MacDonald  
Lloyd Quedent

Boated over from Woman Lake Lodge and met Lloyd at his camp. Spent the day prospecting the area north of Swain Lake's eastern shore on 4219856.

**September 26, 2010**

Regan Isenor  
Dan MacDonald  
Lloyd Quedent

Boated over from Woman Lake Lodge and met Lloyd at his camp. Spent the day prospecting the area north of Swain Lake's eastern shore on 4219856.

**September 27, 2010**

Regan Isenor  
Dan MacDonald  
Lloyd Quedent

Boated over from Woman Lake Lodge and met Lloyd at his camp. Spent the day prospecting the area north of Swain Lake's eastern shore on 4219856. Early that

evening Tom boated us back out to the landing and Lloyd headed out from his camp. Because we were now going to focus on the Skinner Block, we moved to the Trillium Motel in Ear Falls tonight.

**September 28, 2010**

Regan Isenor  
Dan MacDonald  
Lloyd Quedent

Spent the day locating and sampling old trenches as well as prospecting on claims 4254145 and 4219847.

**September 29, 2010**

Regan Isenor  
Dan MacDonald  
Lloyd Quedent

Spent half of the day prospecting on claims 4254145 and 4219847 of the Skinner Block. In the afternoon we travelled to Thunder Bay and out to Toronto. Lloyd went back to Sioux Lookout.



**Appendix C**  
**Assay Certificates**

**Certificate of Analysis**

Thursday, October 14, 2010

 Clark Consulting 1000 Alloy Dr.  
 Thunder Bay, ON, CAN  
 P7A6G5  
 Ph#: (807) 622-3284  
 Fax#: (807) 622-4156  
 Email#: gjclark@tbaytel.net

 Date Received: 09/29/2010  
 Date Completed: 10/14/2010  
 Job #: 201044158  
 Reference: Frontline hold  
 Sample #: 36 Core

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
287428	194026	10	<0.001	0.010
287429	194027	9	<0.001	0.009
287430	194028	<5	<0.001	<0.005
287431	194029	<5	<0.001	<0.005
287432	194030	<5	<0.001	<0.005
287433	194031	<5	<0.001	<0.005
287434	194032	<5	<0.001	<0.005
287435	194033	<5	<0.001	<0.005
287436	194034	<5	<0.001	<0.005
287437	194035	<5	<0.001	<0.005
287438 Dup	194035	<5	<0.001	<0.005
287439	194036	36	0.001	0.036
287440	194037	30	<0.001	0.030
287441	194038	<5	<0.001	<0.005
287442	194039	<5	<0.001	<0.005
287443	194040	38	0.001	0.038
287444	194041	<5	<0.001	<0.005
287445	194042	7	<0.001	0.007
287446	194043	<5	<0.001	<0.005

PROCEDURE CODES: ALP2, ALFA2



Derek Demaniuk H.B.Sc. Laboratory Manager

Certified By:

 The results included on this report relate only to the items tested  
 The Certificate of Analysis should not be reproduced except in full, without  
 the written approval of the laboratory

**Certificate of Analysis**

Thursday, October 14, 2010

 Clark Consulting 1000 Alloy Dr.  
 Thunder Bay, ON, CAN  
 P7A6G5  
 Ph#: (807) 622-3284  
 Fax#: (807) 622-4156  
 Email#: gjclark@tbaytel.net

 Date Received: 09/29/2010  
 Date Completed: 10/14/2010  
 Job #: 201044158  
 Reference: Frontline hold  
 Sample #: 36 Core

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
287447	194044	6	<0.001	0.006
287448	194045	6	<0.001	0.006
287449 Dup	194045	10	<0.001	0.010
287450	194046	<5	<0.001	<0.005
287451	194047	580	0.017	0.580
287452	194048	<5	<0.001	<0.005
287453	194049	<5	<0.001	<0.005
287454	194050	6	<0.001	0.006
287455	194176	42	0.001	0.042
287456	194177	<5	<0.001	<0.005
287457	194178	<5	<0.001	<0.005
287458	194179	7	<0.001	0.007
287459	194180	6837	0.199	6.837
287460 Dup	194180	4473	0.130	4.473
287461	194181	28	<0.001	0.028
287462	194182	19713	0.575	19.713
287463	194183	900	0.026	0.900
287464	194191	44	0.001	0.044
287465	194192	13	<0.001	0.013

PROCEDURE CODES: ALP2, ALFA2



Derek Domaniuk H Bsc. Laboratory Manager

Certified By:

 The results included on this report relate only to the items tested  
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 the written  
 approval of the laboratory

AL903-0049-10/14/2010 10:16 AM

**Certificate of Analysis**


Thursday, October 14, 2010

 Clark Consulting 1000 Alloy Dr.  
 Thunder Bay, ON, CAN  
 P7A6G5  
 Ph#: (807) 622-3284  
 Fax#: (807) 622-4156  
 Email#: gjclark@tbaytel.net

 Date Received: 09/29/2010  
 Date Completed: 10/14/2010  
 Job #: 201044158  
 Reference: Frontline hold  
 Sample #: 36 Core

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
287466 Dup	194192	7	<0.001	0.007
287467	194200	13592	0.397	13.592

PROCEDURE CODES: ALP2, ALFA2


**Derek Demaniuk H Bsc., Laboratory Manager**

Certified By:

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## **Appendix D**

### **2010 Field Maps**

\* Maps can be found in map pockets following this report

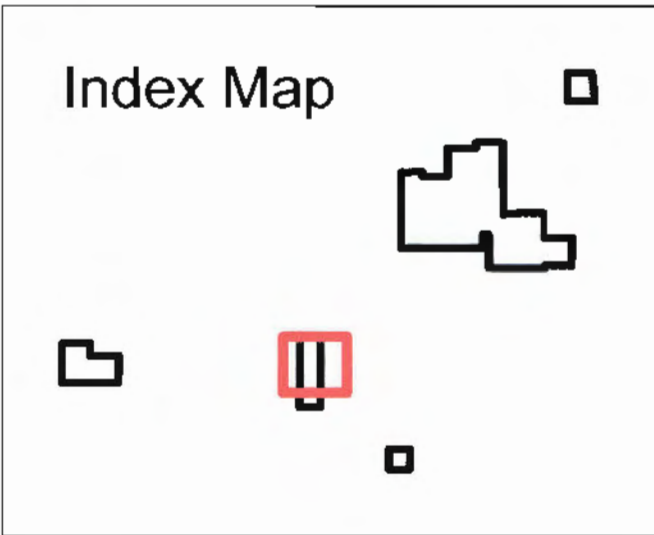
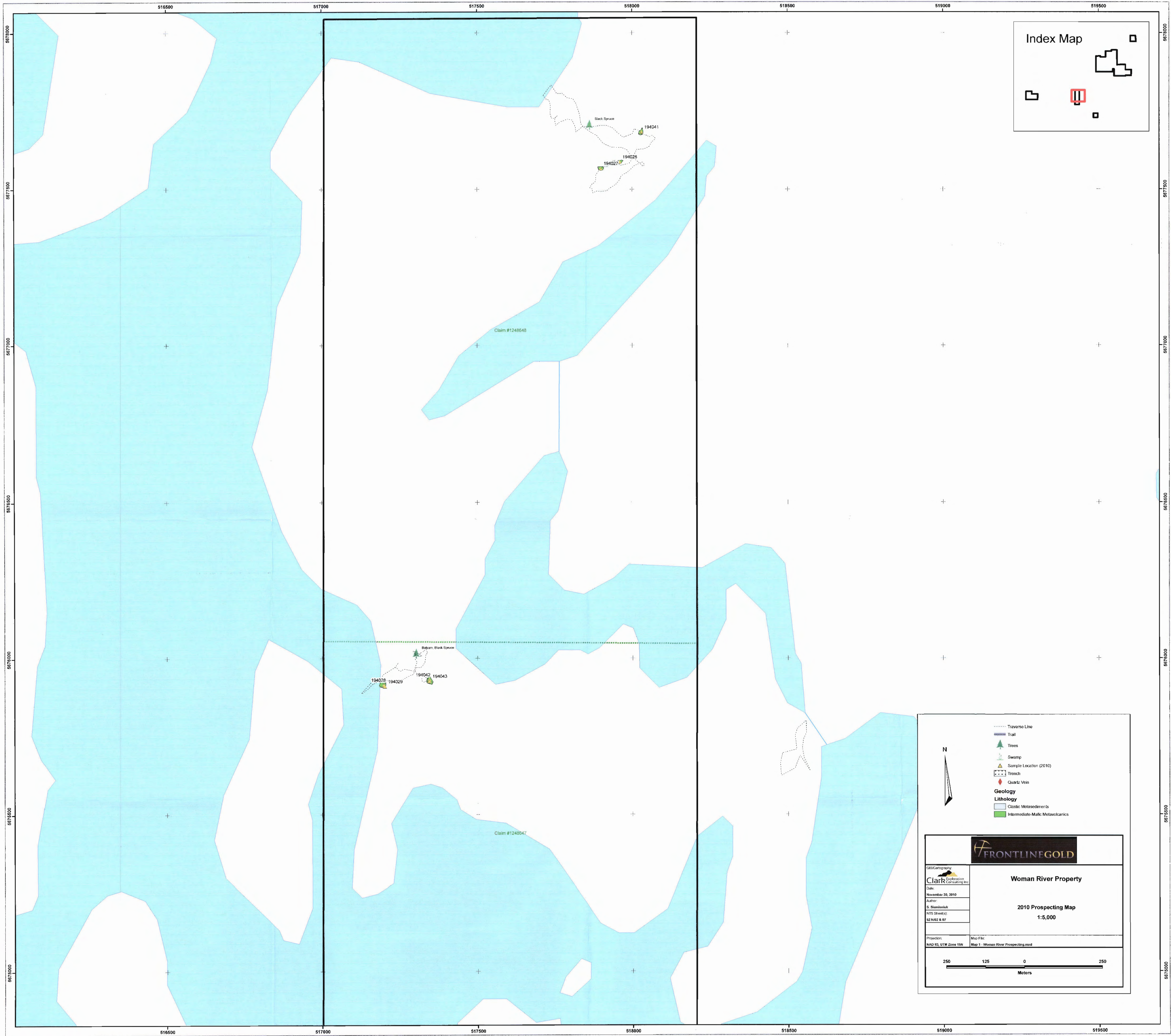
Map 1: Woman River Prospecting

Map 2: Shabumeni Lake Prospecting – East Sheet

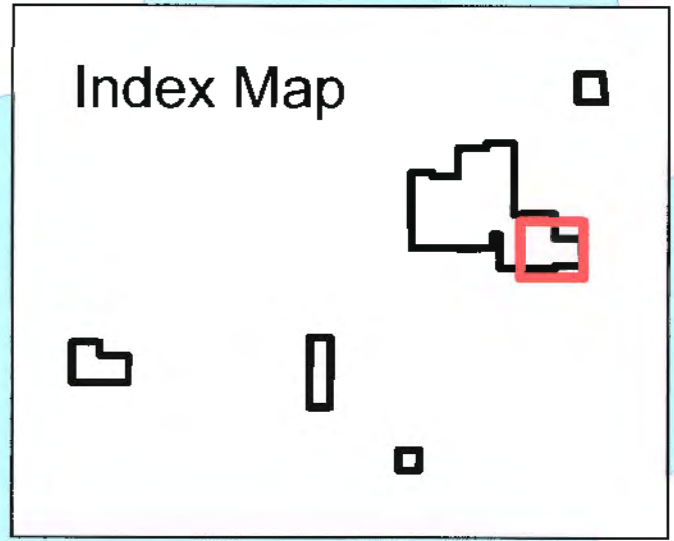
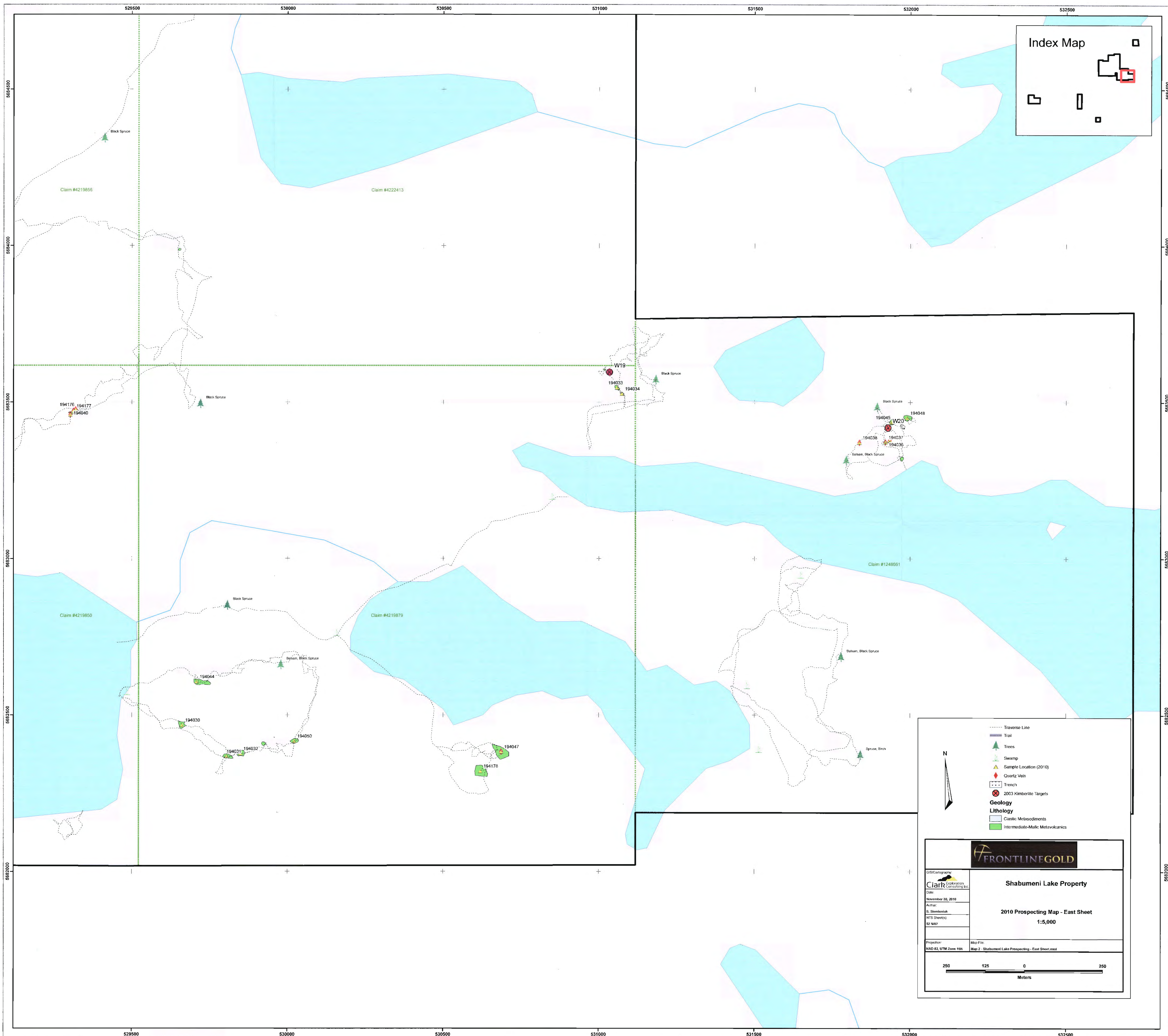
Map 3: Shabumeni Lake Prospecting – West Sheet

Map 4: Skinner Prospecting

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<ul style="list-style-type: none"> <li>--- Traverse Line</li> <li>--- Trail</li> <li>▲ Trees</li> <li>▲ Swamp</li> <li>▲ Sample Location (2010)</li> <li>--- Trench</li> <li>◆ Quartz Vein</li> </ul>	<p><b>Geology</b></p> <p><b>Lithology</b></p> <ul style="list-style-type: none"> <li>□ Classic Metasediments</li> <li>■ Intermediate-Mafic Metavolcanics</li> </ul>
<p><b>Woman River Property</b></p>	
<p><b>2010 Prospecting Map</b></p> <p><b>1:5,000</b></p>	
<p>GIS/Geology  <b>Clark</b> Exploration          Consulting Inc.          Date: November 30, 2010          Author: S. Stamenkuk          NTS Sheet(s): S2 N02 &amp; 07</p>	<p>Map File:          Map 1 - Woman River Prospecting.mxd</p>
<p>250      125      0      250</p> <p>Meters</p>	



----- Traverse Line

--- Trail

▲ Trees

▲ Swamp

▲ Sample Location (2010)

▲ Quartz Vein

--- Trench

⊗ 2003 Kimberlite Targets

**Geology**

**Lithology**

□ Clastic Metasediments

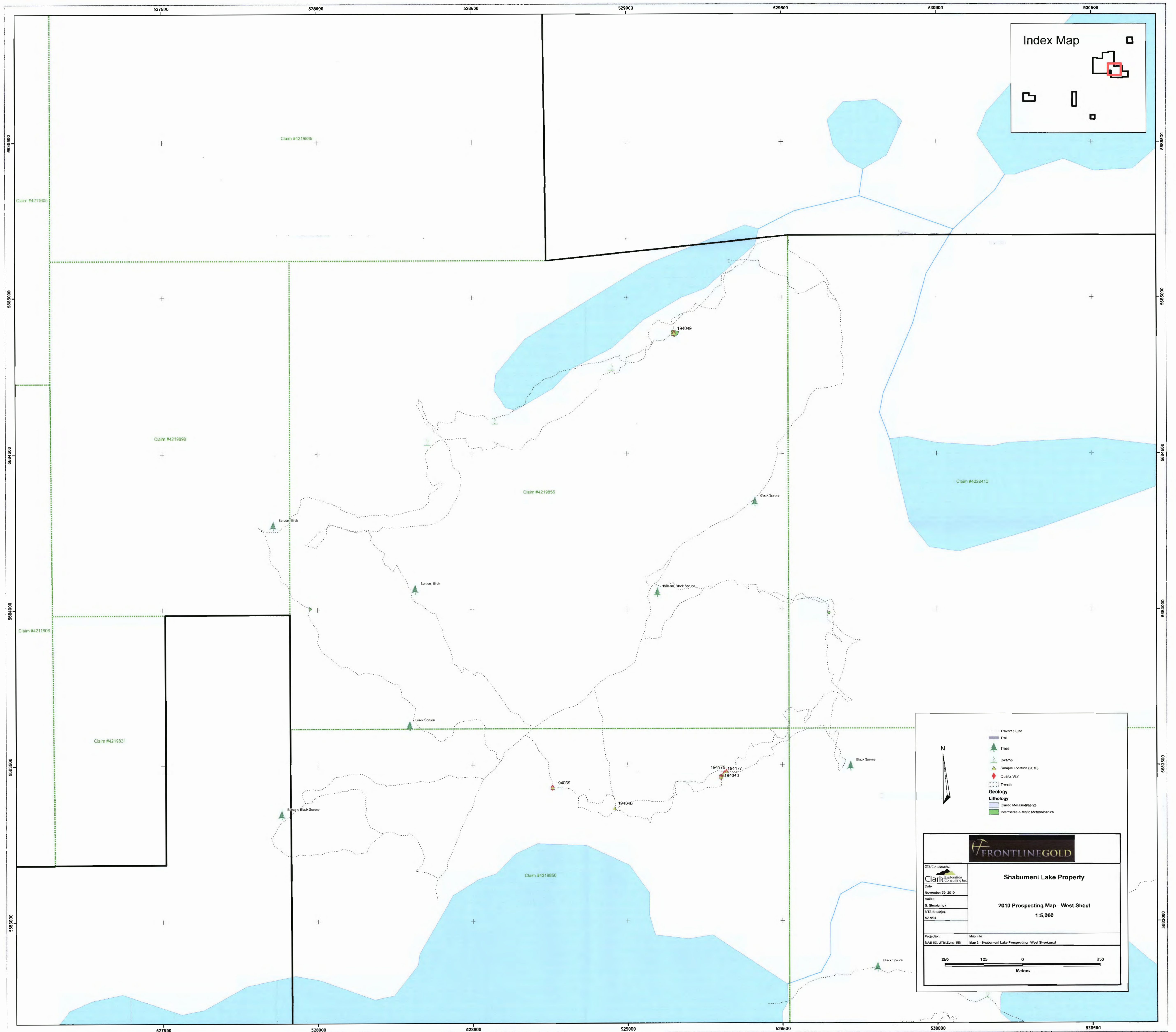
■ Intermediate-Mafic Metavolcanics

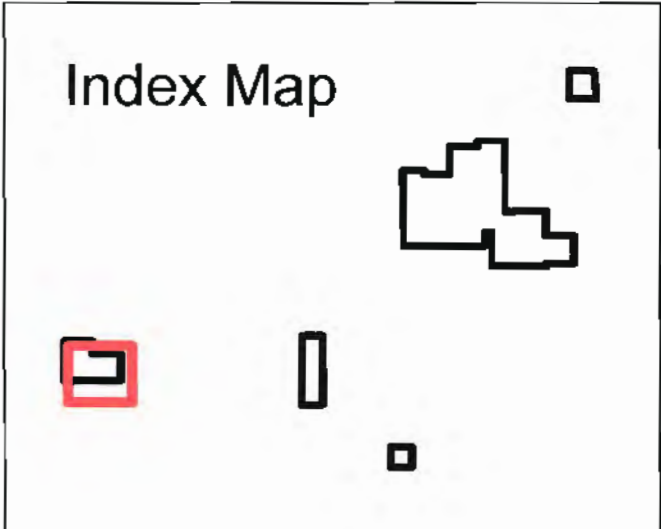
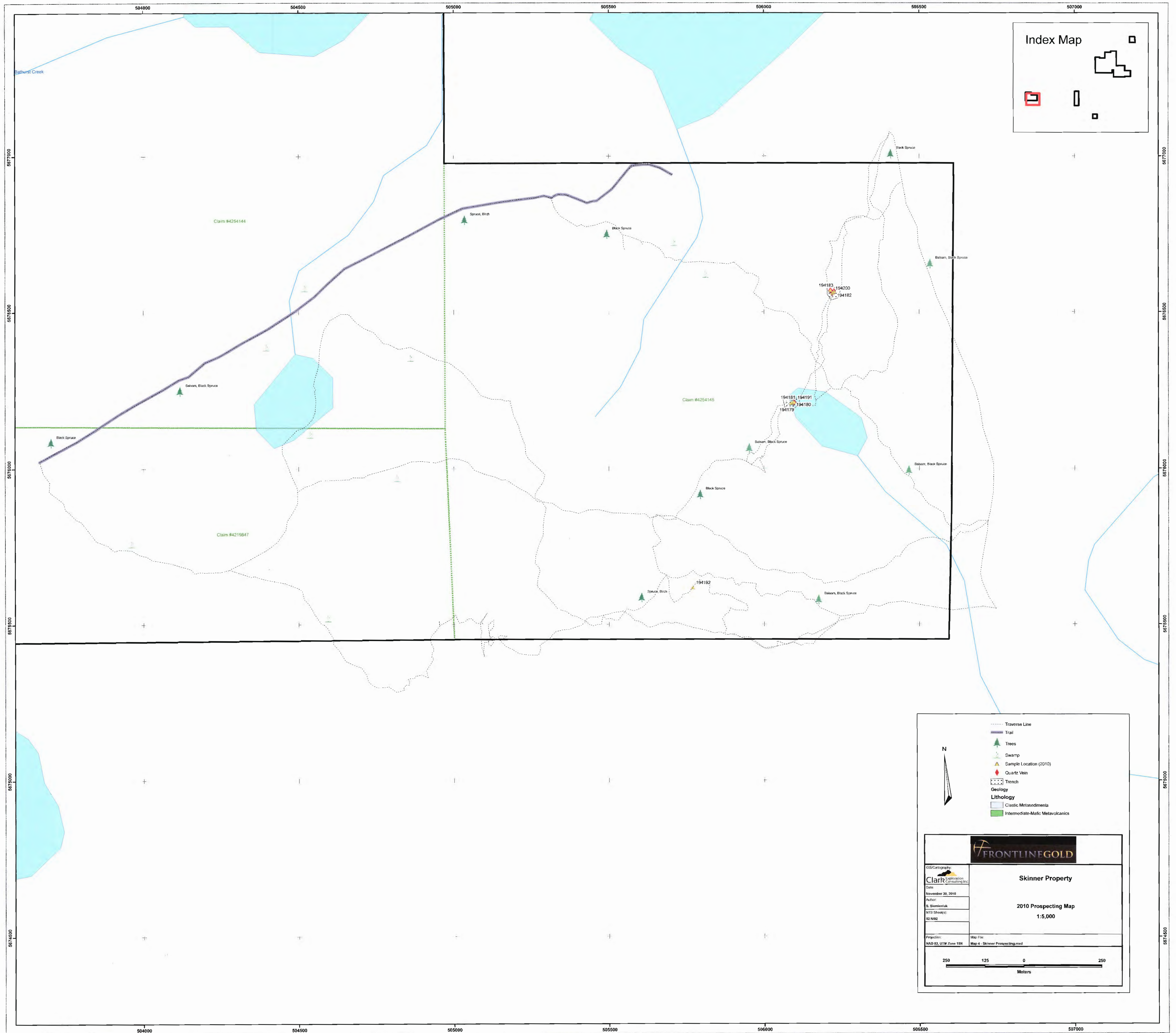
N

GIS Cartography <b>CiarR</b> Corporation Consulting Inc. Date: November 30, 2010 Author: S. Sklenzienak NTS Sheet(s): 52 N07	<p><b>Shabumeni Lake Property</b></p> <p><b>2010 Prospecting Map - East Sheet</b></p> <p><b>1:5,000</b></p>
Projection: NAD 83, UTM Zone 18N Map File: Map 2 - Shabumeni Lake Prospecting - East Sheet.mxd	

Meters







--- Traverse Line  
 --- Trail  
 🌲 Trees  
 🌿 Swamp  
 📍 Sample Location (2010)  
 🔴 Quartz Vein  
 --- Trench  
**Geology**  
 Lithology  
 Clastic Metasediments  
 Intermediate-Mafic Metavolcanics

N

**Skinner Property**  
**2010 Prospecting Map**  
 1:5,000

GIS/Geology: Clark Exploration Consulting Inc.  
 Date: November 20, 2010  
 Author: S. Siemientak  
 Auto Shaded: SE Map

Projection: NAD 83 UTM Zone 18N  
 Map File: Map 4 - Skinner Prospecting.mxd

250 125 0 250  
 Meters