

CHAMPION BEAR RESOURCES LTD.

# PLOMP FARM

## TECHNICAL REPORT, AUBREY TOWNSHIP, ONTARIO

MAY 09, 2019





# PLOMP FARM TECHNICAL REPORT, AUBREY TOWNSHIP, ONTARIO

CHAMPION BEAR RESOURCES LTD.

PROJECT NO.: 161-10880-00\_RPT-01\_R7  
EFFECTIVE DATE: NOVEMBER 20, 2017  
ISSUED DATE: FEBRUARY 5, 2018  
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PREPARED BY:  
TODD MCCRACKEN, P. GEO.

WSP  
SUITE 300  
93 CEDAR STREET  
SUDBURY, ON, CANADA P3E 1A7

T: +1 705 674-0119  
WSP.COM

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# REVISIONS

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1	December 7, 2018	Todd McCracken	Address ASC Comments
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5	April 18, 2019	Todd McCracken	Withdraw Resource Statement
6	May 3, 2019	Todd McCracken	Address ASC Comments
7	May 9, 2019	Todd McCracken	Address ASC Comments

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# SIGNATURES

This report has an Effective Date of November 20, 2017, an Issue Date of February 5, 2018 and an Amendment Date of May 9, 2019 was prepared and signed by the following author.

**PREPARED BY**

*Original signed in Sudbury, Ontario on May 9, 2019 by  
Todd McCracken, P.Geo.*

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**Todd McCracken, P.Geo.**  
**Manager - Mining**

This report was prepared as a National Instrument 43-101 *Standards of Disclosure for Mineral Projects* Technical Report for Champion Bear Resources Ltd. (Champion Bear) by WSP Canada Inc. (WSP). The quality of information, conclusions, and estimates contained herein are consistent with the quality of effort involved in WSP's services. The information, conclusions, and estimates contained herein are based on: i) information available at the time of preparation, ii) data supplied by outside sources, and iii) the assumptions, conditions, and qualifications set forth in this report. This report is intended for use by Champion Bear subject to the terms and conditions of its contract with WSP and relevant securities legislation. The contract permits Champion Bear to file this report as a Technical Report with Canadian securities regulatory authorities pursuant to National Instrument 43-101. Except for the purposes legislated under provincial securities law, any other uses of this report by any third party is at that party's sole risk. The responsibility for this disclosure remains with Champion Bear. The user of this document should ensure that this is the most recent Technical Report for the property as it is not valid if a new Technical Report has been issued.

# ABBREVIATIONS

## Units of Measure

above mean sea level .....	amsl	kilometres per hour.....	km/h
acre .....	ac	kilopascal .....	kPa
ampere .....	A	kiloton .....	kt
annum (year).....	a	kilovolt .....	kV
billion .....	B	kilovolt-ampere.....	kVa
billion tonnes .....	Bt	kilowatt .....	kW
billion years ago .....	Ga	kilowatt hour .....	kWh
British thermal unit .....	BTU	kilowatt hours per tonne .....	kWh/t
Centimetre .....	cm	kilowatt hours per year .....	kWh/a
cubic centimetre .....	cm <sup>3</sup>	less than.....	<
cubic feet per minute.....	cfm	litre .....	L
cubic feet per second .....	ft <sup>3</sup> /s	litres per minute.....	L/m
cubic foot.....	ft <sup>3</sup>	megabytes per second .....	Mb/s
cubic inch .....	in	megapascal.....	Mpa
cubic metre .....	m <sup>3</sup>	megavolt-ampere .....	Mva
cubic yard.....	yd <sup>3</sup>	megawatt.....	MW
Coefficients of Variation .....	Cvs	metre .....	m
day .....	d	metres above sea level .....	masl
days per week.....	d/wk	metres Baltic sea level .....	mbsl
days per year (annum) .....	d/a	metres per minute .....	m/min
dead weight tonnes .....	DWT	metres per second.....	m/s
decibel adjusted .....	Ba	microns.....	µm
decibel.....	dB	milligram.....	mg
degree.....	°	milligrams per litre .....	mg/L
degrees Celsius .....	°C	millilitre .....	mL
diameter .....	∅	millimetre .....	mm
dollar (American).....	US\$	million .....	M
dollar (Canadian).....	CAN\$	million bank cubic metres .....	Mbm <sup>3</sup>
dry metric tond .....	mt	million bank cubic metres per annum .....	Mbm <sup>3</sup> /a
foot.....	ft	million tonnes .....	Mt
gallon .....	gal	minute (plane angle).....	'
gallons per minute.....	gpm	minute (time) .....	min
Gigajoule.....	GJ	month .....	mo
Gigapascal .....	GPA	ounce .....	oz
Gigawatt.....	GW	pascal.....	Pa
Gram .....	g	centipoise .....	mPa-s
grams per litre .....	g/L	parts per million.....	ppm
grams per tonne.....	g/t	parts per billion.....	ppb
greater than.....	>	percent .....	%
hectare (10,000 m <sup>2</sup> ) .....	ha	pound(s).....	lb
hertz.....	Hz	pounds per square inch.....	psi
horsepower .....	hp	revolutions per minute .....	rpm
hour.....	h	second (plane angle).....	"
hours per day .....	h/d	second (time) .....	s
hours per week.....	h/wk	short ton (2,000 lb) .....	st
hours per year .....	h/a	short tons per day.....	st/d
inch .....	in	short tons per year .....	st/y
kilo (thousand).....	k	specific gravity.....	SG
kilogram .....	kg	square centimetre.....	cm <sup>2</sup>
kilograms per cubic metre .....	kg/m <sup>3</sup>	square foot .....	ft <sup>2</sup>
kilograms per hour .....	kg/h	square inch.....	in <sup>2</sup>
kilograms per square metre .....	kg/m <sup>2</sup>	square kilometre.....	km <sup>2</sup>
kilometre .....	km	square metre .....	m <sup>2</sup>
kilometre .....	km		

## Acronyms

Champion Bear .....	Champion Bear Resources Ltd.
DTM .....	Digital Terrain Model
ID <sup>2</sup> .....	Inverse Distance Squared
MNDM .....	Ministry of Northern Development and Mines
NAD .....	North American Datum
NN .....	Nearest Neighbour
NSR .....	Net Smelter Return
NTS .....	National Topographic System
OGS .....	Ontario Geological Survey
OK .....	Ordinary Kriging
QP .....	Qualified Person
QSS .....	Quartz-Sericite Schist
UTM .....	Universal Transverse Mercator
VMS .....	Volcanogenic Massive Sulphide
WSP .....	WSP Canada Inc.
WGM .....	Watts, Griffis and McQuat Limited



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A	DRILLHOLE COLLARS
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# 1 SUMMARY

The Plomp Farm Project (the Project) is located approximately 20 km west of Dryden, in northwestern Ontario. The claims are currently owned 100% by Champion Bear Resources Ltd. (Champion Bear).

In July 2016, Champion Bear retained WSP Canada Inc. (WSP) to provide technical support to Champion Bear on their various explorations projects. The decision to complete a resource estimate and technical report on the Project was made in 2017. The decision to withdraw the resource statement from the technical report, following repeated compliance reviews, was made April 12, 2019. This technical report complies with disclosure and reporting requirements set forth in National Instrument 43-101 (NI 43-101) Standards of Disclosure for Mineral Projects, Companion Policy 43-101CP, and Form 43-101F.

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## 1.1 GEOLOGY

The Project lies within the northern portion of the western Wabigoon sub-province of the Superior province. The Wabigoon sub-province is a 150-km wide volcano-plutonic domain with an exposed strike of 700 km and is comprised of primarily volcanic supracrustal sequences (greenstone belts) intruded by syn-volcanic to post tectonic felsic plutonic rocks of the Superior Province of the Canadian Shield. The magmatic components of the greenstone belts vary from ultramafic to felsic tholeiitic, calc-alkaline and alkali groups. The secondary sedimentary successions include both clastic and chemical deposits and the plutonic rocks include syn-volcanic tonalitic, quartz dioritic and granodioritic plutons of which emplacement has caused major deformation along the greenstone belts.

The Project is underlain by an Archean aged narrow belt of rocks belonging to the Sioux Lookout Domain which is characterized by a series of alternating felsic volcanics, fine grained, grey, weakly foliated meta-greywackes, and iron formations with a southward, sub-vertical to vertical dip that has been intruded by mafic to felsic dykes.

The initial focus on the mineralization style on the Project was on gold associated quartz veining within the quartz-sericite schists. With further investigations, highly anomalous gold values were identified on the property hosted within sericitized felsic tuffaceous units which indicates a second style of mineralization is present on the Project.

As of 2007, the Project has 115 diamond drillholes completed on the property.

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## 1.2 RECOMMENDATIONS

It is the QP's opinion that additional exploration expenditures are warranted. Two separate exploration programs are proposed. Phase 2 is dependent on the results of Phase 1 and should be completed or adjusted upon the completion of Phase 1.

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### 1.2.1 PHASE 1

Phase 1 is designed primarily to delineate the mineralization at the Project by testing the strike and dip extension of the mineral zone as well as preserving the existing drillcore.

The proposed budget for Phase 1 is estimated at \$629,000.

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### *1.2.2 PHASE 2*

If Phase 1 is successful at further delineating a mineral zone along strike and / or at depth, Phase 2 programs should be initiated. Phase 2 is designed to further delineate the Project at depth and along strike.

The proposed budget for Phase 2 is estimated at \$945,000.

## 2 INTRODUCTION

The Property is a shear-hosted gold system located approximately 20 km west of Dryden, in northwestern Ontario. The claims are currently owned 100% by Champion Bear.

Exploration has been sporadic through the years with Champion Bear conducting most of the efforts between 1994 and 2007. The Project has been inactive until 2017, when Champion Bear re-evaluated the Project.

To date, Champion Bear has delineated two mineralized domains on the Property through the compilation of mapping, and diamond drill data.

The objectives of this report are to:

- Prepare a technical report on the Plomp Farm Property in accordance with NI 43-101 summarizing land tenures, exploration history, and drilling;
- Provide recommendations and budget for additional work.

This report has been prepared in accordance with NI 43-101, Form 43-101F1 and Companion Policy 43-101CP for Champion Bear. Champion Bear is a Calgary based company listed on the TSXV with symbol CBA.

All work is completed using the metric system and all values are in Canadian dollars unless otherwise stated.

All data reviewed for the report was provided by Champion Bear in digital format, with access to paper reports and logs when requested. The work completed by Champion encompasses surface exploration, including mapping, sampling, geophysics and geological modeling. Champion Bear has completed five phases of diamond drilling on the Property.

Historical work conducted in the region has been compiled by Champion Bear and was available for review.

The author of this report and qualified person (QP), Mr. Todd McCracken, P. Geo. is a professional geologist with 26 years of experience in exploration and operations, including several years working in shear-hosted deposits. The QP is an employee of WSP Canada Inc. and are considered one and the same. Mr. McCracken visited the Property between June 28 and 29. Mr. McCracken was accompanied on the site visit by Mr. Richard Kantor, President for Champion Bear and Mr. Todd Dillabough, Director for Champion Bear. The site visit consisted of review of drill core, review of drill collar locations and review of the pulps conditions.

The QP considers the site visit current, per NI 43-101CP, Section 6.2, on the basis that the work completed on the Property has been reviewed by the QP and all practices and procedures documented were reviewed.

### 3 RELIANCE ON OTHER EXPERTS

The QP has reviewed and analyzed data and reports provided by Champion Bear, together with publicly available data, drawing its own conclusions augmented by direct field examination.

This report includes technical information, which required subsequent calculations to derive subtotals, totals, and weighted averages. Such calculations inherently involve a degree of rounding and consequently introduce a margin of error. Where these occur, the QP does not consider them to be material.

The QP who prepared this report relied on information provided by Richard Kantor, President of Champion Bear, the Issuer. The Issuer is fully aware of the Company's entitlement to explore Plomp Farm, the status of the current claim status of the Project and the existing Property Agreements.

The QP believes that it is reasonable to rely on information provided by the Issuer, concerning Property ownership and legal matters relevant to the technical report. Where appropriate, the documents are properly referenced in the report and in Section 19.

- Todd McCracken, P.Geo., relied upon Richard Kantor, President of Champion Bear for information pertaining to mineral claims as disclosed in Section 4.0. Mr. Kantor provided a list of the mineral claims in several documents including in Smolen, J., Hinzer, J., Morton, S., 2009, Report on the 2007 Diamond Drilling Program, Plomp Farm, Aubrey Township, Kenora, Ontario for Champion Bear Resources Ltd. The QP confirmed the mineral claims by reviewing the Ontario Ministry of Northern Development and Mines CLAIMaps website ([www.mndm.gov.on.ca](http://www.mndm.gov.on.ca)).
- Todd McCracken, P.Geo., relied fully upon Richard Kantor, President of Champion Bear for information pertaining to patented claims, as disclosed in Section 4.0. Mr. Kantor provided a list of the patented claims. The QP confirmed the patented claims listed in was provided by Mr. Kantor in the document Schultz Agreement \_1351083\_1, 2003, also match the patented claims listed in Smolen, J., Hinzer, J., Morton, S., 2009, Report on the 2007 Diamond Drilling Program, Plomp Farm, Aubrey Township, Kenora, Ontario for Champion Bear Resources Ltd. The QP is unable to independently verify the patented claims. This would require a formal request from the Office of the Surveyor General of Ontario.
- Todd McCracken, P.Geo., relied upon Richard Kantor, President of Champion Bear for information pertaining to Property agreement, as disclosed in Section 4.0. Mr. Kantor provided a copy of the agreement Schultz Agreement \_1351083\_1, 2003.

# 4 PROPERTY LOCATION AND DESCRIPTION

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## 4.1 LOCATION

The Plomp Farm property is located in Aubrey Township approximately 20 km west of Dryden, Ontario and consists of two contiguous group blocks (East and West blocks) and two non-contiguous claims situated within the Kenora Mining Division in northwestern Ontario. The east blocks are centered approximately at Universal Transverse Mercator (UTM) co-ordinate 500,345m E and 5,514,588m N (North American Datum (NAD) 83, Zone 15). The west blocks are centered approximately at UTM coordinate 490,239m E and 5,513,054m N. Both claim groups are located within National Topographic System (NTS) map sheet 52F/15 SW.

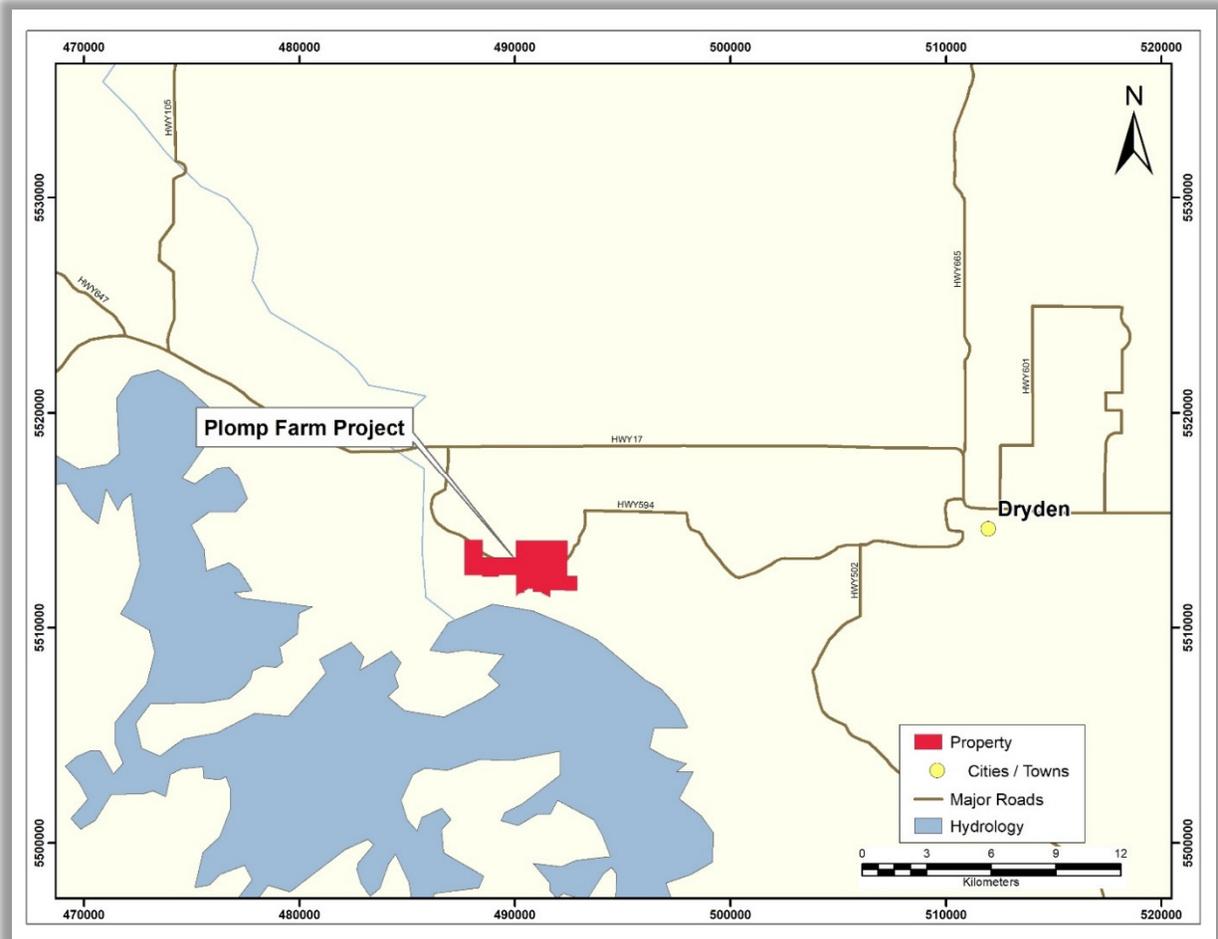
Surface rights on the property are owned by the Crown and Freehold owners respectively. Under the mining regulations of Ontario, Champion Bear has access rights to mineral resources found on the property, limited by Federal and Provincial resource extraction and by environmental regulations.

Figure 4.1 presents the regional property location map, and Figure 4.2 presents the property location map.

Figure 4.1 Regional Property Location Map



Figure 4.2 Property Location Map



## 4.2 CLAIM STATUS

The current claim status was validated through the Mining Claims Information page on the Ministry of Northern Development and Mines (MNDM) website. This webpage provides an updated online database that can be accessed through [https://www.mci.mndm.gov.on.ca/claims/clm\\_mmen.cfm](https://www.mci.mndm.gov.on.ca/claims/clm_mmen.cfm).

The Plomp Farm Gold property is composed of 18 unpatented mining claims and 7 patented claims that consists of an east group and a west group. The east group and west group are separated by approximately 4 km. The east group is comprised of two contiguous blocks and one non-contiguous claim and the west group consists of one contiguous block, one non-contiguous claim and seven patented claims. The 18 unpatented mining claims (80 claim units in total) cover 1,176.53 hectares and are all in good standing and wholly owned by Champion Bear Resources Ltd. Table 4.1 summarizes the mining claims. Table 4.2 summarizes the patented claims. Figure 4.3 displays the mineral claims and patented claims of the west group. A Patent claim in Ontario is a legacy claim and these are no longer available in the province.

Patent claims, leases and licences of occupation are considered “Dispositions” in Ontario and are managed by the Office of the Surveyor General in the Province of Ontario. A “Disposition” refers to the transfer of the ownership or rights to use Crown land from the Crown to private interests, other ministries, government agencies or the Federal government (Queen’s Printer for Ontario, 2014). The patent claim cannot be terminated by the Ministry of Northern Development and Mines, except for voluntary surrender or non-payment of mining lands taxes. Patented claims in Ontario are similar to modern mineral leases with the exception that patent claims include both the surface rights and mineral rights and are valid as long as the annual taxes are paid to the Crown.

Champion Bear has full surface rights on the 7 patented claims. Surface rights to the remaining 18 unpatented mining claims on the Property currently remain with the Crown. The Ontario Mining Act (2010) grants surface access to a mineral claim without owning the surface rights, with proper consultation with stakeholders in the area. Champion Bear has conducted and continues to conduct the required stakeholder consultation.

If Champion Bear wishes to acquire the surface rights for the unpatented mineral claims, for any future potential operation, Champion Bear would have to apply to convert the mineral claim to a mining lease. The process of acquiring surface rights depends on the owner of the rights:

- If the surface rights are owned by the claim holder then no action is required.
- If the surface rights are owned by the Crown, then the ownership of the surface rights will be granted to the claim holder during the lease application process.
- If the surface rights are privately owned by an individual or company then an agreement to allow the claim holder to use the land must be made with the surface rights holder. The agreement should outline the compensation given if the land covered by the surface rights sustains any damages.

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#### 4.2.1 PROPERTY AGREEMENTS

**Plomp Farm Agreement No. 1:** November 2003, Champion Bear entered into an agreement between Fred Plomp and David Schultz where Champion Bear was to reacquire an undivided 100% interest in the Plomp Farm Property for an aggregate of \$40,000 to be paid upon execution of the acquisition agreement. A NSR (Net Smelter Return) of 2% was retained by the owner, of which 1% may be purchased by Champion Bear for \$2,000,000 prior to commencement of production. (*Schultz Agreement\_1351083\_1, 2003*).

**Plomp Farm Agreement No. 2:** August 2004, Champion Bear entered into an agreement with Teck Cominco Ltd. to acquire 100% interest in the Aubrey Gold Property which consisted of 18 unpatented claim units, extending west of the Plomp Farm Property.

Champion Bear was to spend an aggregate of \$250,000 in exploration expenditures by August 2007 to obtain 100% interest in the property. Champion Bear also optioned the Aubrey Gold Property from Teck Cominco by issuing 50,000 common shares. The agreement was subject to a back-in right and a 2% NSR to Teck Cominco. After Champion Bear fulfilled the agreement terms and earned 100% interest in the property as well as completion of a feasibility study, Teck Cominco was able to exercise the back-in right within a 90-day period. In order to earn back 65% interest of the project, Teck had to provide Champion Bear with a completed feasibility study on the property. Teck Cominco did not exercise the back-in right after the terms were met by Champion Bear. Champion Bear holds 100% in the property.

Plomp Farm Agreement No. 2 pertains to claims 3016604, 6016605, 4203968 and 4203970 which were restaked in January 2005 (<http://www.championbear.com>).

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## 4.3 PERMITS

Champion Bear has been issued the required exploration permits by the Crown to conduct early exploration (diamond drilling, mapping, trenching).

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## 4.4 ENVIRONMENTAL LIABILITIES AND OTHER FACTORS

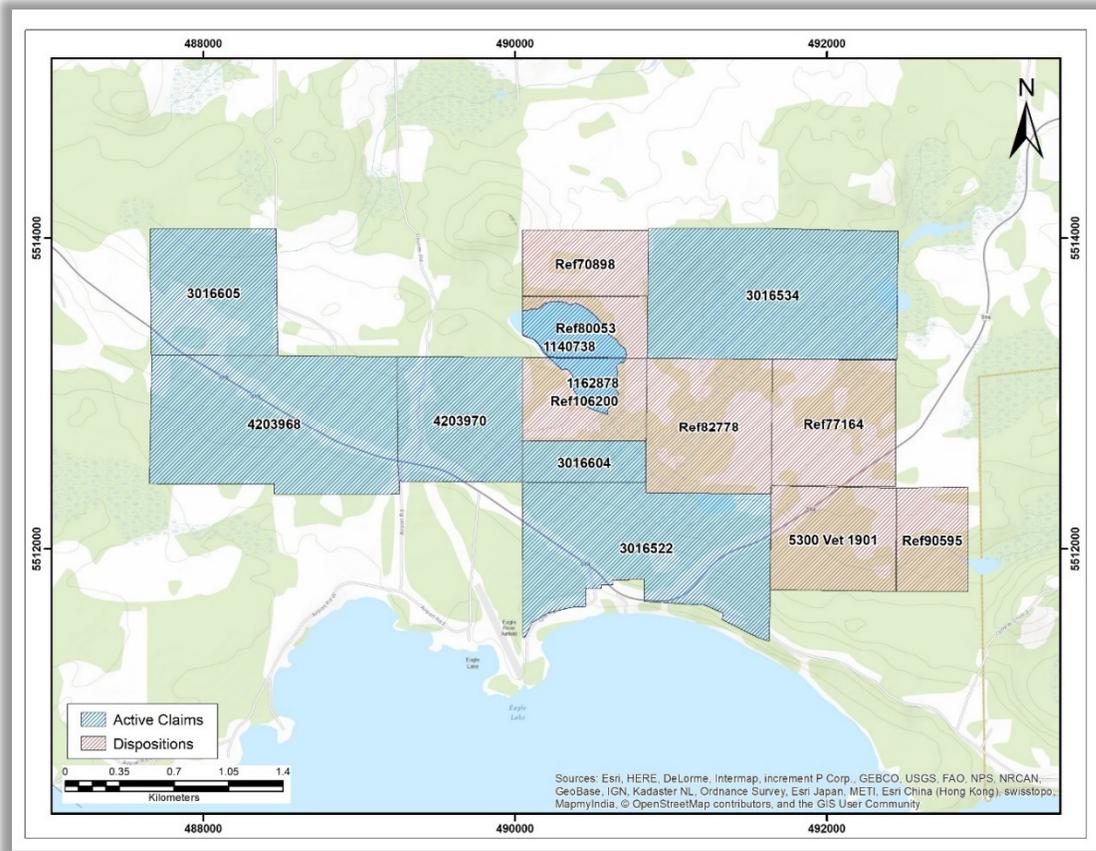
There are no current environmental liabilities associated with the Project.

There are other factors on the Project that could pose potential risks to the Project. All the factors that could be considered risks have mechanisms to address the issues within the Ontario government permitting process. The denial of any permit by the Crown would have impact on the Project.

Examples of some of the risks could include:

- The proximity of Highway 594 to the Project and any requirement to re-align the road away from the Project. Highway 594 is a secondary highway in the province and there are mechanisms within the Ministry of Transportation to request re-alignment of provincial roads around projects. Ministry of Transportation allow surface mining operations to be carried on within 45 m of the limits of the highway or road before additional permits are required (<http://www.mto.gov.on.ca/english/engineering/management/corridor/building-policy/section-4.shtml#pits>).
- The proximity of the cottages along the shore of Eagle Lake to the Project. All Exploration permits, Advanced Exploration permit, and Production permits in Ontario are subject to public consultation. Champion Bear has valid exploration permits, indicating the local public's acceptance of the Project at the current stage. Advanced Exploration and Production permits would require additional public consultation in order for the permits to be issued.
- The proximity of Eagle Lake to the Project. Eagle Lake is approximately 1 km from the edge of a potential pit limit. Both the Ontario provincial permitting regulations and the federal permitting regulations typically require a 30 to 100 m offset from a designated body of water, including wetlands or no net-loss of wetlands area as directed by the appropriate ministry during the permitting process. It should be noted that the water in Ardis Lake does not flow into Eagle Lake. At the Advanced Exploration permit and Production permit stages there are mechanisms within the Ontario mining regulation to address any concerns the Ministry or the public may have.
- Ardis Lake averages 3.05 m deep (10 feet) across the lake with a narrow channel in the centre that is 8 m deep (26 feet). Ardis Lake is 870 m in length and 390 m in width. In the winter, the ice does not get thick enough to support heavy equipment such as diamond drills. The location of the lake poses a risk for any future resource estimation.

**Figure 4.3 Claim Map with Claim and Patent Cells**



**Table 4.1 Claims List**

Project	Township / Area	Claim Number	Recording Date	Claim Due Date
Plomp Farm - East	AUBREY	3016606	2006-Jul-04	2020-Jul-04
Plomp Farm - East	AUBREY	3016607	2006-Jul-04	2020-Jul-04
Plomp Farm - East	AUBREY	4206121	2006-Jul-04	2020-Jul-04
Plomp Farm - East	AUBREY	4206122	2006-Jul-04	2020-Jul-04
Plomp Farm - East	AUBREY	4206123	2006-Jul-04	2020-Jul-04
Plomp Farm - East	AUBREY	4206823	2006-Jul-18	2020-Jul-18
Plomp Farm - East	AUBREY	4206824	2006-Jul-18	2020-Jul-18
Plomp Farm - East	AUBREY	4206825	2006-Jul-18	2020-Jul-18
Plomp Farm - East	AUBREY	4206826	2006-Jul-18	2020-Jul-18
Plomp Farm - East	AUBREY	4206124	2006-Jul-04	2021-Jul-04
Plomp Farm - West	AUBREY	1140738	1995-May-11	2022-Aug-06
Plomp Farm - West	AUBREY	1162878	1995-May-18	2022-Aug-13
Plomp Farm - West	AUBREY	3016604	2005-Feb-02	2022-Feb-02
Plomp Farm - West	AUBREY	3016605	2005-Feb-02	2022-Feb-02
Plomp Farm - West	AUBREY	4203968	2005-Jan-17	2022-Jan-17
Plomp Farm - West	AUBREY	3016522	2006-Mar-06	2022-Mar-06
Plomp Farm - West	AUBREY	4203970	2005-Jan-17	2023-Jan-17
Plomp Farm - West	AUBREY	3016534	2005-Jan-24	2023-Jan-24

**Table 4.2 West Group Patented Claims**

<b>Project</b>	<b>Township / Area</b>	<b>Patent Number</b>
<b>Plomp Farm - West</b>	AUBREY	Ref 82778
<b>Plomp Farm - West</b>	AUBREY	Ref 77164
<b>Plomp Farm - West</b>	AUBREY	Ref 80053
<b>Plomp Farm - West</b>	AUBREY	Ref 106200
<b>Plomp Farm - West</b>	AUBREY	5300 Vet 1901
<b>Plomp Farm - West</b>	AUBREY	Ref 70898
<b>Plomp Farm - West</b>	AUBREY	Ref 90595

# 5 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE, AND PHYSIOGRAPHY

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## 5.1 SITE TOPOGRAPHY, ELEVATION, AND VEGETATION

The topography of the Plomp Farm Property is typical of the Canadian Shield with a mix of poorly drained low-lying areas and well drained highlands. Topographical relief ranges from ~ 350 m to > 400 m above sea level. There are numerous low lying swamp lands and streams that intersect the property and provide access for exploration. The vegetation is mix of low shrubbery and mixed deciduous and coniferous forests. Outcrop exposure is limited to higher elevations and overburden depths vary across the property and consist typically of a thick upper humus layer in the lowlands and boulders in the areas of high relief.

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## 5.2 ACCESS

Direct access is provided via Highway 594 which runs east-west through the property.

The Trans-Canada Highway (Hwy 17), CP Railway and the Trans-Canada Gas Pipeline are all located within 7 km of the property.

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## 5.3 CLIMATE

The climate is typical of northwestern Ontario temperatures with humid continental conditions ranging from -30°C to 30°C annually with snow cover expected from November until early May. Summers bring warm to hot conditions while winters are typically cold and dry. The average snowfall is 170 cm and average annual rainfall is 90 cm.

Access to the Property is available year-round if required.

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## 5.4 INFRASTRUCTURE

A base camp with capacity for 20 people is established on the camp from which the exploration programs are carried out. Logistical support and access to the property is via highway 594 which runs east-west through the property providing direct access. The property is situated within the Municipality of Machin, population ~1200, approximately 8 km west of the community Eagle River and is located approximately 20 km west of Dryden (population ~8,000). Dryden is serviced by daily commercial flight connections to Thunder Bay, Ontario and Winnipeg, Manitoba and offers a number of government branches and private businesses which provide services to the exploration sector. A long history of mineral exploration in the region contributes to a well-skilled workforce.

The Project has sufficient or the ability to acquire sufficient surface rights for mining operations, potential tailings storage areas, potential waste disposal areas, and potential processing plant sites. The patent claims include the surface rights. There are mechanisms within the Province of Ontario to convert mining claims to mining leases and to acquire the surface rights.

## 6 HISTORY

Gold mineralization was identified on the property in 1991 by Mr. Fred Plomp through prospecting and grab sampling. After the discovery of a second gold occurrence, Champion Bear acquired the property and carried out a series of exploration programs. A summary of the previous work is outlined in Table 6.1.

**Table 6.1 Summary of Previous Work**

Date	Company	Description	Significant Results
1900s	Various prospectors	Early prospecting.	
1934-1941	Ontario Department of Mines	Geological mapping.	
1960's	Geological Survey of Canada	Area included in the regional magnetic airborne survey.	
1970	Inco	Completes drilling (1 hole, 38 m EOH).	Intersects sulphides over 13.6 m at 14 m depth – no sample results were reported.
1976	Ontario Department of Mines	Area included in regional mapping during "Operation Kenora – Ear Falls".	
1984	Ontario Geological Survey	project area included in regional mapping of the Eagle River – Ghost Lake area.	
1987	Ontario Geological Survey	Portion of claims are covered by a regional airborne EM and Magnetics GeoTEM survey at 100 m line spacing.	Several EM anomalies detected on claims 4224356 and 4224359, as well as the southern portion of 4224358.
1991	Fred Plomp	Prospecting and sampling identified gold mineralization within quartz-tourmaline veins and identified associations with narrow mafic dykes cutting a sequence of metasedimentary and felsic metavolcanics.	Assays returned values of up to 34.93 g/t Au and 0.27% Cu.
1994-1997	Champion Bear	Champion Bear acquired the property after a second gold occurrence was identified within quartz-filled fractures hosted within a quartz-sericite schist on the norther portion of the property. Linecutting Geological mapping and orientation geochemical and VLF-EM surveys were carried out as a preliminary program in 1994. Mag and IP surveys in 1995. One diamond drillhole totaling 242.8 m was drilled to test a surface gold occurrence identified by Mr. Fred Plomp in 1994 which initiated a 87 diamond drillhole program that continued until 1997. A 20-person, permanent base camp was also established in the fall of 1994.	Mineralization traced >700m along strike to 36 m widths. Anomalous Cu, Zn, Au, Ag were intersected in hole PF26.
2001-2002	Ontario Geological Survey (OGS)	Systematic sampling, litho-geochemical analysis, and alteration studies conducted to evaluate potential of area to host VSM mineralization. Geological Mapping	Highly anomalous samples taken from the sericite altered felsic unit returned values of 53.5 g/t Au and 92.1 g/t Au as well as elevated Zn and Cu values Results indicated potential to host VMS mineralization as well as another gold source

*(table continues on next page)*

Date	Company	Description	Significant Results
2003	Champion Bear / WGM	Geotechnical program conducted which involved re-examining previous drillcore, geological mapping, sections and assay data. Re-evaluation Program under supervision of Watts, Griffis and McOuat Limited.	The program identified possible structural controls on the mineralization and main gold system within the quartz-sericite-schist zone.
2004	Champion Bear / WGM	Re-evaluation Program under supervision of Watts, Griffis and McOuat Limited. Eight diamond drillholes totaling 2,800.5 m were drilled in the western part of the property in the spring of 2004. All holes were drilled to test anomalies identified through a previous IP survey. Re-logging and re-sampling historic drillcore (1,170 samples).	This program concluded that mineralization is associated with an alteration pattern as anomalous gold (>100 ppb) is found in association with barite, silver, copper, zinc and molybdenum. Also found that another phase of gold mineralization is associated with higher zinc and silver without barite and molybdenum.
2005	Champion Bear / WGM	Re-evaluation Program under supervision of Watts, Griffis and McOuat Limited. Nine diamond drillholes totaling 2,790.8 m were drilled on the central portion of the property to test the continuity of gold mineralization along strike and down dip. The drilling also tested a new structural model developed following the 2004 re-evaluation program. Drillcore from 1994 to 1998 was also re-logged and re-sampled (13,968.1 m). Spring of 2005, IP, Resistivity and Magnetics surveys were conducted on the property by Vision Geophysics and Matrix GeoTechnologies Ltd. The objective of the surveys was to identify target areas to increase the understanding of lithology and structural controls on the mineralization.	Confirmed new structural model and further understanding of the alteration pattern.
2006	Champion Bear / WGM	Re-evaluation Program under supervision of Watts, Griffis and McOuat Limited. Drilled 6 holes totaling 4,828.7 m to test continuity of gold mineralization. The drilling also tested new structural model and undefined alteration zones.	New interpretation of structural controls of mineralization and geochemical signatures were identified. Anomalous gold mineralization and associated multi-element alteration plunge steeply to the southwest. Observed alteration patterns and features confirm the VSM association.
2007	Champion Bear	Three wedge holes and three diamond drillholes to test mineralization at depth.	Results indicated mineralization at depth with highest intersection at 71.6g/t Au over 0.4 m at a depth of 623.6 m.

# 7 GEOLOGICAL SETTING AND MINERALIZATION

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## 7.1 REGIONAL GEOLOGY

The Superior Province of North America has been divided into subprovinces of which have been divided into domains based on lithology and structural association.

The Plomp Farm property lies within the northern portion of the western Wabigoon subprovince of the Superior province. The Wabigoon subprovince is a 150-km wide volcanoplutonic domain with an exposed strike of 700 km and is comprised of primarily volcanic supracrustal sequences (greenstone belts) intruded by syn-volcanic to post tectonic felsic plutonic rocks of the Superior Province of the Canadian Shield. The magmatic components of the greenstone belts vary from ultramafic to felsic tholeiitic, calc-alkaline and alkali groups. The secondary sedimentary successions include both clastic and chemical deposits and the plutonic rocks include syn-volcanic tonalitic, quartz dioritic and granodioritic plutons of which emplacement has caused major deformation along the greenstone belts (*Beakhouse, 2001*).

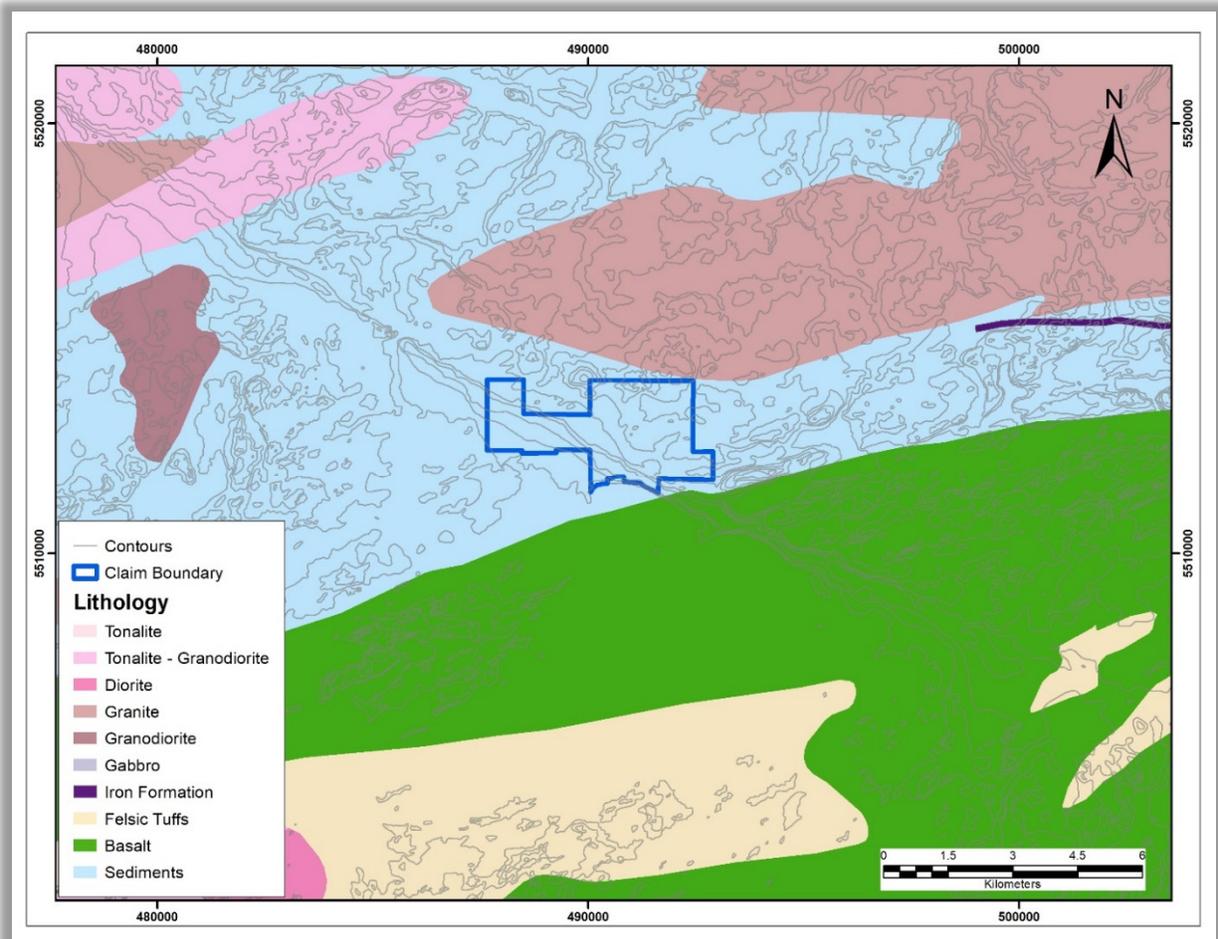
To the north lies the English River subprovince (2.8 – 3.1 Ma) which is composed of highly metamorphosed metasediments and metasedimentary gneisses, migmatites and granitic rocks of magmatic origin. The English River subprovince is a linear belt up to 50 km wide and greater than 800 km long.

South of the property lies the Wabigoon Fault which has been linked to most gold occurrences in the region. The Wabigoon Fault is located at the contact of the Populus volcanics and the Warclub Sedimentary Assemblage and has been confirmed by Blackburn (1981) to be the point of which is the contact between the northern and southern supracrustal domains. The fault is a major structural divided that groups the area into lithological domains with specific mineral associations. North of the fault the Wabigoon subprovince has been noted to have linear, fault bounded panels trending parallel to the subprovince boundary and exhibits recumbent folding and thrust faulting as well as dextral shearing. This structural setting has been identified as being specific to this area and has not been identified elsewhere on the subprovince. The Wabigoon Fault is situated adjacent to the Plomp Farm property and provides multiple intersections with several regional scale fault structures and small scaled folds indicating a dextral movement along the fault system (*Blackburn, 1981*).

The Warclub Assemblage is an alternating series of laterally extensive felsic volcanics, iron formations and metasediments that extend approximately 250 km. The assemblage contains both geochemically enriched and depleted zones which suggests volcanogenic massive sulphide (VMS) deposition from hydrothermal environments. Mapping on the Warclub Assemblage by Beakhouse (2000, 2001, and 2002) has differentiated the Warclub Assemblage into four panels with younging direction to the south. The four panels have been identified as the Brownridge Sediments-Volcanics, the Thunder Lake Sediments-Volcanics, the Thunder River Volcanics and the Zealand Sediments. Most of the panels appear to be fault bounded and exhibits complex deformation with parallel bedding fabric (D<sub>1</sub>) being deformed to regional scale, southwest plunging, Z asymmetrical folds with development of a second fabric (D<sub>2</sub>) parallel to the axial surface of these folds (*Blackburn, 1991*).

Figure 7.1 shows the Project outline on the regional geology.

Figure 7.1 Property Location on a Regional Geology Map



## 7.2 PROPERTY GEOLOGY

The Plomp Farm project is underlain by an Archean aged narrow belt of rocks belonging to the Sioux Lookout Domain which is characterized by a series of alternating felsic volcanics, fine grained, grey, weakly foliated meta-greywackes and iron formations with a southward, sub-vertical to vertical dip that has been intruded by mafic to felsic dykes. This layered package has been classified as being part of the Warclub Assemblage and was thrust emplaced against the Wabigoon Subprovince about 2.7 Ma (*Beakhouse, 1988*). Figure 7.2 shows the geology on the Project.

The Warclub Assemblage is underlain by weakly to locally altered, felsic to intermediate volcanics of fine-grained, grey to light grey felsic tuffs and flows. Interbedded between the two units is a highly altered quartz-sericite schist (QSS) zone which appears as fine grained, off white to light grey, strongly foliated with altered mineralized tuff containing locally 1 to 5 % disseminate pyrite, sphalerite, and chalcopyrite. In the eastern part of the property, the QSS is overlain by a thick sequence of a magnetic iron formation characterized by a fine grained foliated, recrystallized chert with up to 20% localized magnetitic banding and localized pyrite stingers. The Ontario Geological Survey (OGS) has interpreted this magnetite iron formation as a ‘cap rock’ or ‘exhalite’ of the VMS sequence. There is an increase of metamorphic grade northward within the sedimentary units at the Plomp Farm project.

The geologic units of the Plomp Farm property were defined from drillcore and are listed below.

**Litho 1 – Felsic to Intermediate Volcanics (rhyolite, dacite and andesites)**

Fine pale to medium grey felsic to intermediate volcanic with sericite alteration, felsic tuffs and localized flows.

**Litho 2 – Quartz Sericite Schist (altered rhyolite or dacite tuffs with pyrite)**

Light grey, sheared quartz porphyry with localized quartz +/- veining, locally moderate silicified banding, localized biotite and sericite, intensely foliated with up to 5% pyrite, sphalerite and chalcopyrite.

**Litho 3 – Iron Formation: Chert-Magnetite**

Fine grained, medium grained, moderately to locally intense foliation, moderate recrystallized chert with up to 20% localized magnetitic (+/- chloritic) banding. Few pyrite stringers with traces of fine grained chalcopyrite. This zone is interlayered with the felsic volcanics and has been interpreted as the 'cap rock' or 'exhalite' of the VMS sequence by the OGS.

**Litho 4 – Metasedimentary (primarily greywacke, secondary arkose or argillite)**

Light to dark grey fine to very fine grained, weakly foliated metasediment with localized alteration, sericite and carb/quartz filled fractures containing trace pyrite.

**Litho 5 – Gabbro (diabase)**

Fine to medium grained, dark grey to almost black, moderately magnetite diabase with trace to 1% fine grained disseminated pyrite.

**Litho 6 – Felsic Intrusive (granite)**

Medium grained, grey, moderately foliated, locally altered, massive to weakly porphyritic with primarily granodiorite composition.

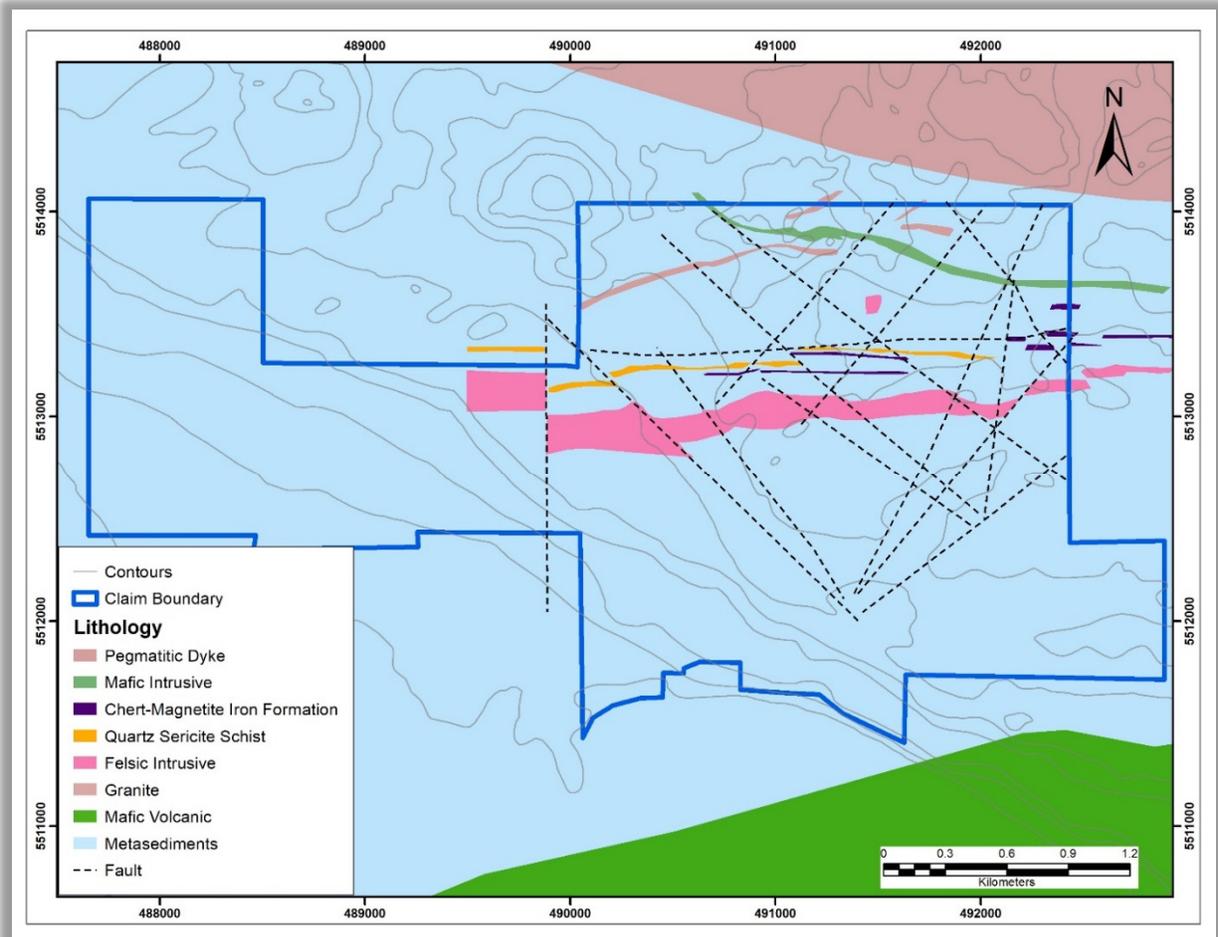
**Litho 7 – Porphyry (QFP or feldspar)**

Light to medium grey, fine to medium grained, locally sheared and altered quartz-feldspar porphyry or feldspar porphyry with up to 2 mm phenocrysts (>10% locally) and trace to 5% pyrite +/- chalcopyrite.

**Litho 8 – Pegmatites**

Coarse grained, quartz-feldspar-muscovite +/- biotite with localized tourmaline and trace pyrite.

Figure 7.2 Property Geology



## 7.3 MINERALIZATION

The western Wabigoon subprovince has been an area of continuous gold prospecting since the 1880s. The discoveries have been identified in quartz veining, shear zones and sulphide rich environments. Gold deposits in the area are typical of Archean load – gold deposits. The OGS has concluded that a number of gold deposits within the area are controlled by shearing and fracturing which has been linked to the dextral movement along the Wabigoon Fault.

Until 2001 the focus for gold mineralization was primarily on vein-type mineralization with occurred as late stage quartz-tourmaline veins that have been associated with the late stage  $D_2$  fabric ( $050^\circ$ ) and are found to cross cut the stratigraphic sequence of the Warclub Assemblage. This gold mineralization is suspected to be related to the remobilization of the  $D_1$  mineralization event.

In 2001 and 2002, it was discovered that highly anomalous gold mineralization was not only identified in the QSS zone (varying thickness of a few metres to 10s of metres) but also within an alteration pattern in the felsics, metasediments, granitoids and the porphyritic zones with no quartz association. A southwest plunging fold structure ( $40^\circ W$ ) within the QSS zone and contains higher grade intercepts has been identified.

Through Watts, Griffis and McOuat Limited (WGM)'s re-analysis programs, two phases of gold mineralization have been identified from multi-element geochemical analysis. In one phase, gold mineralization is not associated with barite or molybdenum but is associated with zinc and silver. Geochemical analysis indicates a 90 to 180 m wide zone of barite enrichment ( $Ba > 1000$  ppm) where both copper and molybdenum is restricted to the barite envelope and zinc, gold and silver enrichment is identified within the barite zone, along the lower contact and below the alteration zone. The barite alteration weakens within the central and western portions of the zone. Gold enrichment is noted towards the outer flanks of the zone. The anomalous gold mineralization and associated geochemical alteration characterized by extensive silver, barite and copper halo, appear to plunge steeply to the southwest and both the main zone mineralization and alteration are associated with major sub-vertical shearing.

## 8 DEPOSIT TYPES

The initial focus on the mineralization style on the Plomp Farm project was on gold associated quartz veining within the quartz-sericite schists. With further investigations, highly anomalous gold values were identified on the property hosted within sericitized felsic tuffaceous units which indicates a second style of mineralization.

As with the Goliath Gold Deposit, the Rainy River Deposit, and many other gold base metal deposits within the prolific greenstone belts, the Plomp Farm mineralization style does not seem to conform to the classic orogenic model and as such, can be classified as a hybrid deposit-type model, Pre-orogenic Atypical Greenstone Belt Gold Model, hosted within a highly altered sedimentary assemblage with two distinct styles of gold mineralization. The mineral deposition of these hybrid models occurs early in the formation of the greenstone belts prior to regional scale structural events of orogeneses and since has been intensely overprinted by deformation and alteration events that may contribute to the concentration and remobilization of both base and precious metals. The mineralization style ranges from disseminated stockwork zones to veining with associated sulphide wallrock replacements to, less commonly, sulphide rich vein systems. The hybrid model combines the potential for both VMS gold deposition style and Magmatic Hydrothermal Archean Load Gold Deposit style, both of which are typical within the Archean Superior Province.

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### 8.1 PRE-OROGENIC ATYPICAL GREENSTONE BELT GOLD MODEL

Hardie et al. (2012) explains that ‘the gold mineralization at the Rainy River gold deposit can be interpreted to consist of an early (pre-orogenic) gold-rich, volcanogenic sulphide mineralization overprinted by shear hosted, post-orogenic gold mineralization. Both of the type of gold mineralization has been subjected to intense deformation and alteration, where aquiferous quartz veining post-date the sulphide stringers and veins emplaced during active deformation.’

Treasury Gold has integrated the Pre-orogenic Atypical Greenstone Belt Gold Model into stages for the Goliath Gold Deposit. These stages consist of: 1) Pre-Orogenic Event – anomalous Au, Ag, Pb, and Zn is introduced as part of a VMS system along a Pre-Orogenic structure with stratigraphically sheared felsic volcanoclastic and sedimentary rocks; 2) D<sub>1</sub> Deformation Event with development of Z folding, regionally and locally; and 3) D<sub>2</sub> Deformational Event with development of extensions and quartz veining which sealed the area after the mineralization event. This process is also similar to that at Hemlo where feldspar porphyry dike swarms oriented parallel to the D<sub>2</sub> fabric.

A well-developed D<sub>1</sub> fabric has been identified within the felsic volcanic rocks on the Plomp Farm property with associated, locally deformed Z-folded quartz veins (065° – 80°). A weaker D<sub>2</sub> fabric, resulting from NW directed compression, overprints the D<sub>1</sub> fabric and exhibits quartz veining which is similar to those found in the Thunder Lake Sediment-Volcanic Assemblage which host Treasury Gold’s Goliath Deposit.

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## 8.2 MAGMATIC HYDROTHERMAL ARCHEAN LODE GOLD DEPOSITS (ALGD)

Magmatic Hydrothermal Archean Lode Gold Deposits are a variation of porphyry deposits spatially related to brittle and/or ductile deformation zones due to Archean felsic plutonic rocks which developed in a post arc setting distal from magmatic sources. Large poly-phase hydrothermal systems developed within and around these felsic intrusions reacting with meteoric fluids resulting in distribution and concentration of metals (*Brimhall, 1980*). These deposits are characterized by gold bearing veins or disseminated replacement mineralization typically associated with major transcrustal structural settings related to late, regional style, tectonic processes. These deposits tend to be steeply dipping to near vertical tabular bodies with an extent of up to 2 km. Typical alteration associated with these deposits present as sericite, silica, carbonate, talc, tremolite, aluminosilicates, biotite, albite, potassic feldspar, and hematite.

An example of a Magmatic Hydrothermal Archean Load Gold Deposit is the Troilus disseminated gold and copper deposit in the Archean Frotet-Evens greenstone belt of Québec, Canada.

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## 8.3 VOLCANOGENIC MASSIVE SULPHIDE DEPOSITS (VMS)

Volcanogenic Massive Sulphide deposits are significant producers of base metal rich deposits which may also contain precious metals. Gold-rich VMS deposits are a sub-type of both VMS and lode gold deposits (*Poulsen et al., 2000*). These deposits are a type of hydrothermal deposit which comprise semi-massive to massive sulphide zones or lenses that develop in submarine volcanic environments which are underlain by a stockwork or feeder zone (*Galley et al., 2007*). These deposit range in age from Archean to modern day and are presently developing along mid ocean ridges and within back arc basins and fore arc rifts.

VMS deposits vary in size and composition depending on the tectonic structure and host rock. The semi-massive to massive sulphide zones are typically composed of chalcopyrite, sphalerite, galena, pyrite, and pyrrhotite, and may contain gold-bearing minerals.

Studies conducted on the Plomp Farm property by Raoul, A. (2001) suggest that there is a potential for VMS deposit style mineralization due to the presence of pyrite stringers +/- chalcopyrite and sphalerite mineralization as well as elevated anomalous Barium (Ba) and depletion of Sodium Oxide (Na<sub>2</sub>O) within the altered felsic volcanics. There is also intense sericitization associated with hydrothermal alterations of the felsic rock unit with the presence of magnetite-chlorite bearing chert.

An example of a gold rich VMS deposit is the LaRonde Extension of Agnico-Eagles Mines within the Abitibi region of northwestern Québec.

## 9 EXPLORATION

Prior to Champion Bear's ownership of the mineral claims, sporadic work has been completed by local prospectors.

The following section summarizes the surface exploration completed by Champion Bear.

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### 9.1 1994 MAPPING AND LITHOGEOCHEM SAMPLING

Previous drilling reports indicate Champion Bear subcontracted Watts, Griffis and McOuat Limited to complete geological mapping and lithogeochem sampling on the project (*Smolen, P. et al, 2009*). The QP was not able to locate any reports generated by Watt, Griffis and McOuat summarizing the work. The QP's observation of the property would indicate there is not a significant amount of outcrop to map or sample.

The lack of a report for the mapping and lithogeochem does not concern the QP, as the information is not material to the Project.

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### 9.2 1996 GROUND MAGNETICS AND VLF-EM SURVEY

The 1996 program involved establishing a flagged compass and hip-chain grid followed by ground magnetometer and VLF-EM survey.

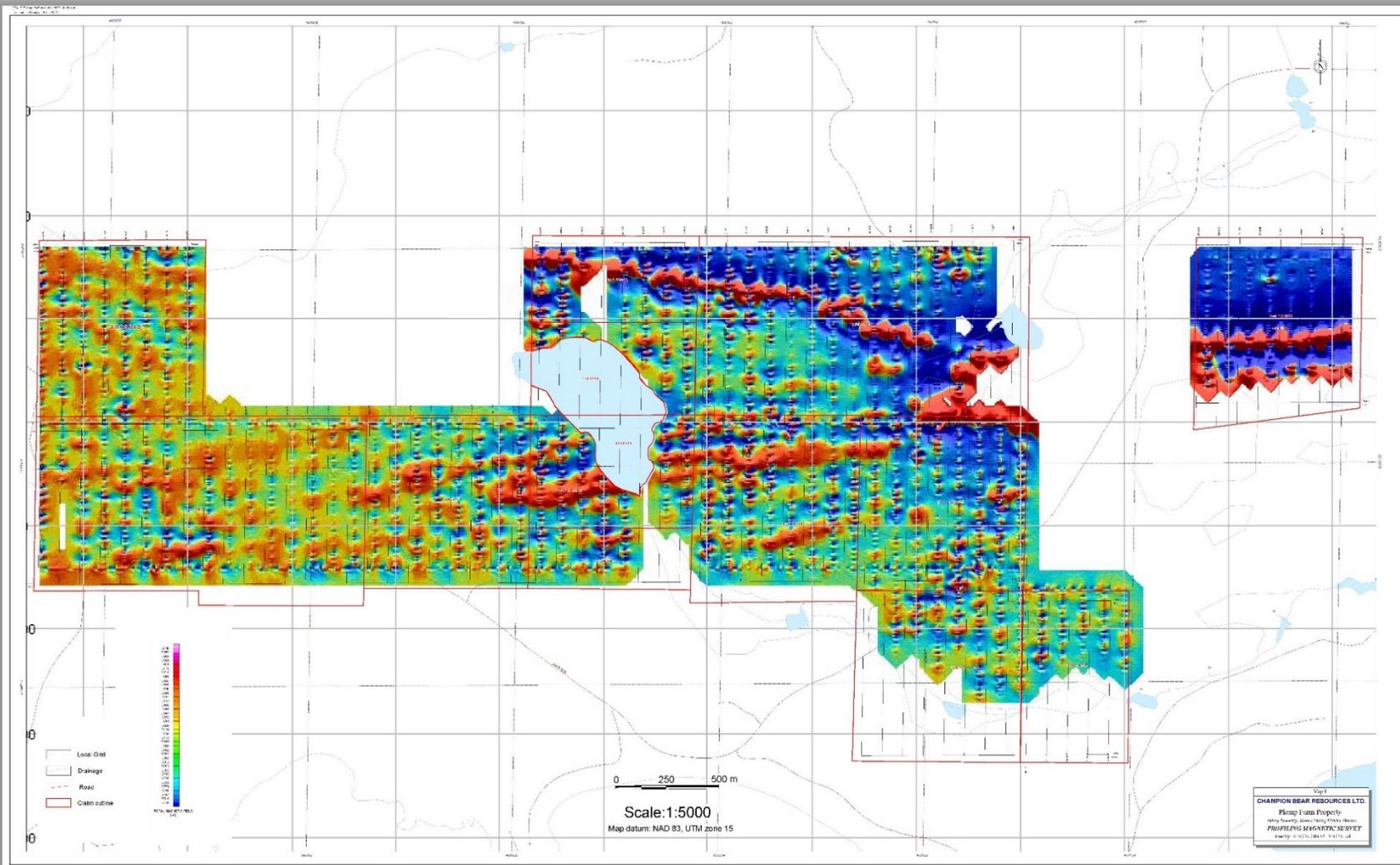
The baseline oriented at 082° was established with 100 m spaced north-south and 25 m stations. The grid totalled 8,000 m.

The ground magnetic survey was completed using a Geometric G-816 portable Proton Magnetometer. The VLF-EM survey utilized a Geonics EM-16 instrument.

A series of strong magnetic anomalies were outlined on the Project, likely caused by the magnetic iron formation. Several conductive features were identified with the VLF-EM survey, which are also related to the iron formation.

Figure 9.1 is the results of the magnetic survey.

Figure 9.1 Plomp Farm Magnetic Survey



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## 9.3 2005 INDUCED POLARIZATION / RESISTIVITY AND MAGNETIC SURVEY

The induced polarization/resistivity/magnetics surveys over the Project was completed in April and May 2005 by Matrix Geotechnologies Ltd. The surveys consist of time-domain induced polarization/resistivity, using gradient, multigradient (in one line) and dipole-dipole techniques (in one line), and station magnetics line profiling.

The various anomalies detected could potentially represent valid exploration targets. The low resistivity/high chargeability represents the best geophysical target signature, based on the geologic model, although the resistive IP signatures are indicators of disseminated mineralization along quartz/silica or sericitization.

The Gradient/Pole-Dipole induced polarization \ resistivity over the Project has identified geophysical signatures, potentially relating to lithologic contacts or geochemical alteration, fault-fracture structures and, most importantly, the presence of increased chargeability, potentially relating to sulphide mineralization.

Figures 9.2 and 9.3 are the results of the induced polarization and resistivity survey.

Figure 9.2 Plomp Farm Induced Polarization Survey

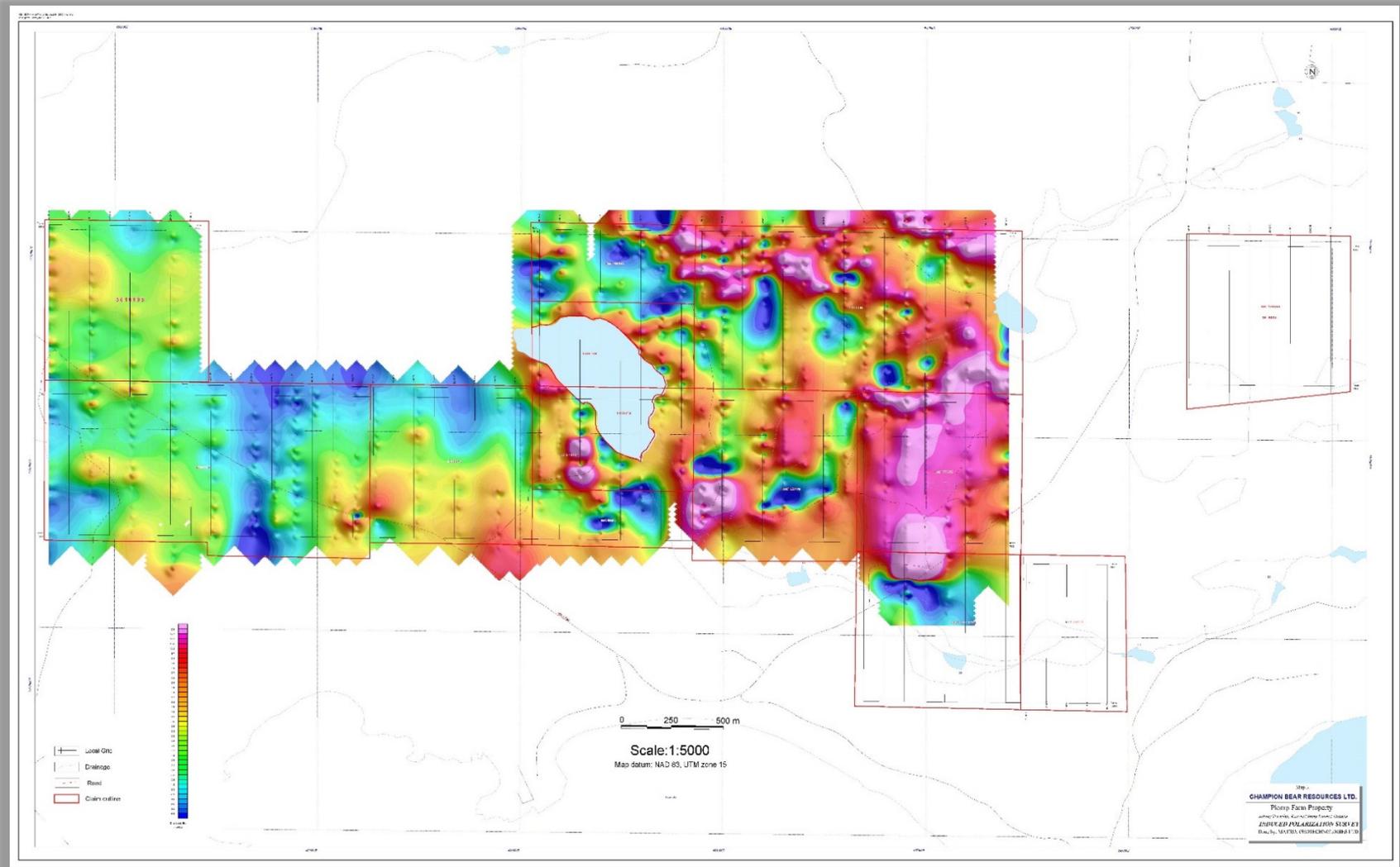
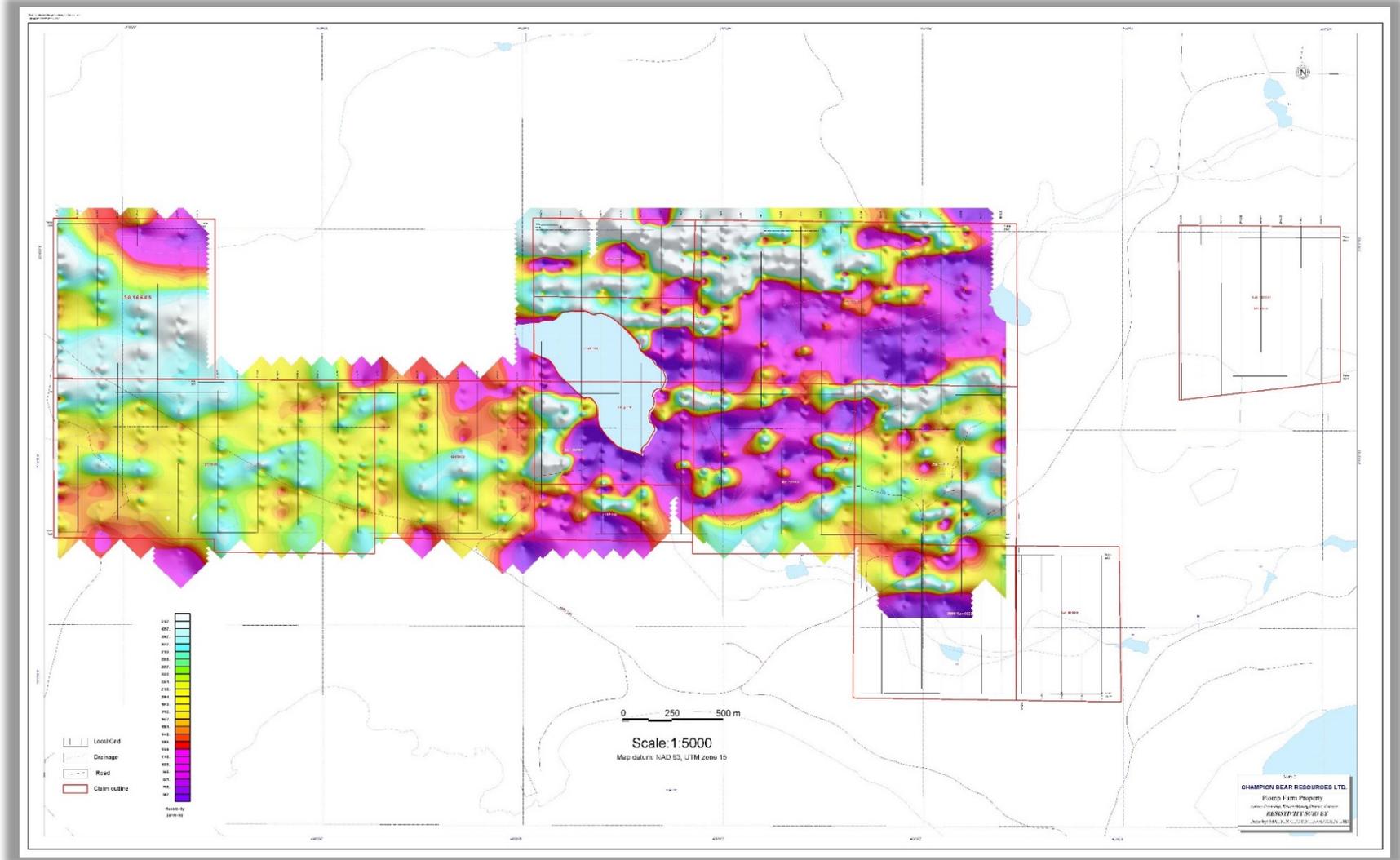


Figure 9.3 Plomp Farm Resistivity Survey



# 10 DRILLING

Five phases of drilling have been completed on the Property between 1994 and 2007. A total of 115 holes were drilled totaling 45,317 m. Table 10.1 provides the collar information for all five phases of the drilling. The data in Table 10.1 has been adjusted to remove the double-counting of 5 wedge holes and 5 holes with no supporting documentation.

**Table 10.1 Plomp Farm Drill Collar Summary**

Years	Number of Holes	Metre	Core Size	Drill Contractor
1994 (Phase 1)	4	785	BQ	St-Lambert Drilling – Valleyfield / Boart Longyear- North Bay
1995 (Phase 1)	36	10,492	BQ	St-Lambert Drilling - Valleyfield / Boart Longyear- North Bay
1996 (Phase 1)	31	13,710	NQ	Bradley Brothers - Timmins
1997 (Phase 1)	16	8,546	NQ	
2004 (Phase 2)	8	2,800	NQ	St-Lambert Drilling - Valleyfield
2005 (Phase 3)	9	2,806		
2006 (Phase 4)	6	4,828	NQ2	Heath & Sherwood Drilling – Kirkland Lake
2007 (Phase 5)	5	1,350	NQ2	North Star Drilling – Thunder Bay

Figure 10.1 is a map displaying the location of the diamond drillholes and general geology of the Project. Figure 10.2 to 10.4 is a generalized cross-section of the drilling through the deposit.

A list of the complete drillhole collars is found in Appendix A.

The relationship between the sample length and the true thickness of the mineralization is estimated to be 70 to 80%.

In addition to the seven drillholes reviewed (see Section 12.1), the QP randomly pulled core boxes from the core racks to observe the condition of the core, the sample tags, the run markers, sampling quality, and the geology. The specific number of boxes pulled is undocumented, yet was over 50 and was likely less than 100. All the holes pulled would be from the 1994-1997 program. The drill core observed in the core boxes indicates industry acceptable recovery and would not impact the reliability of the results. Core recovery was not recorded in the drill logs. It is easy to determine the core recovered within the core boxes by the placement of the run markers in the core boxes.

Figure 10.1 Plomp Farm Drill Collar Location and General Geology (Champion Bear, 2017)

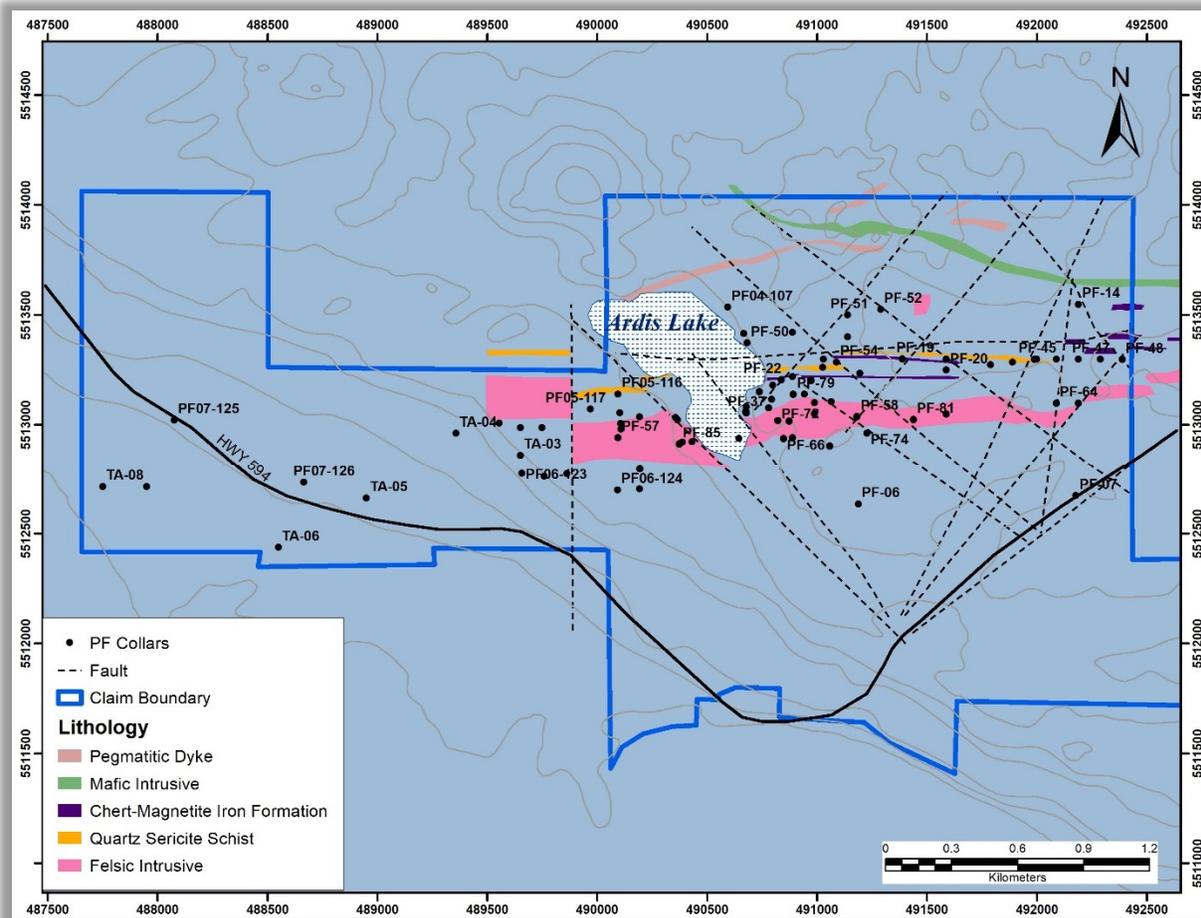
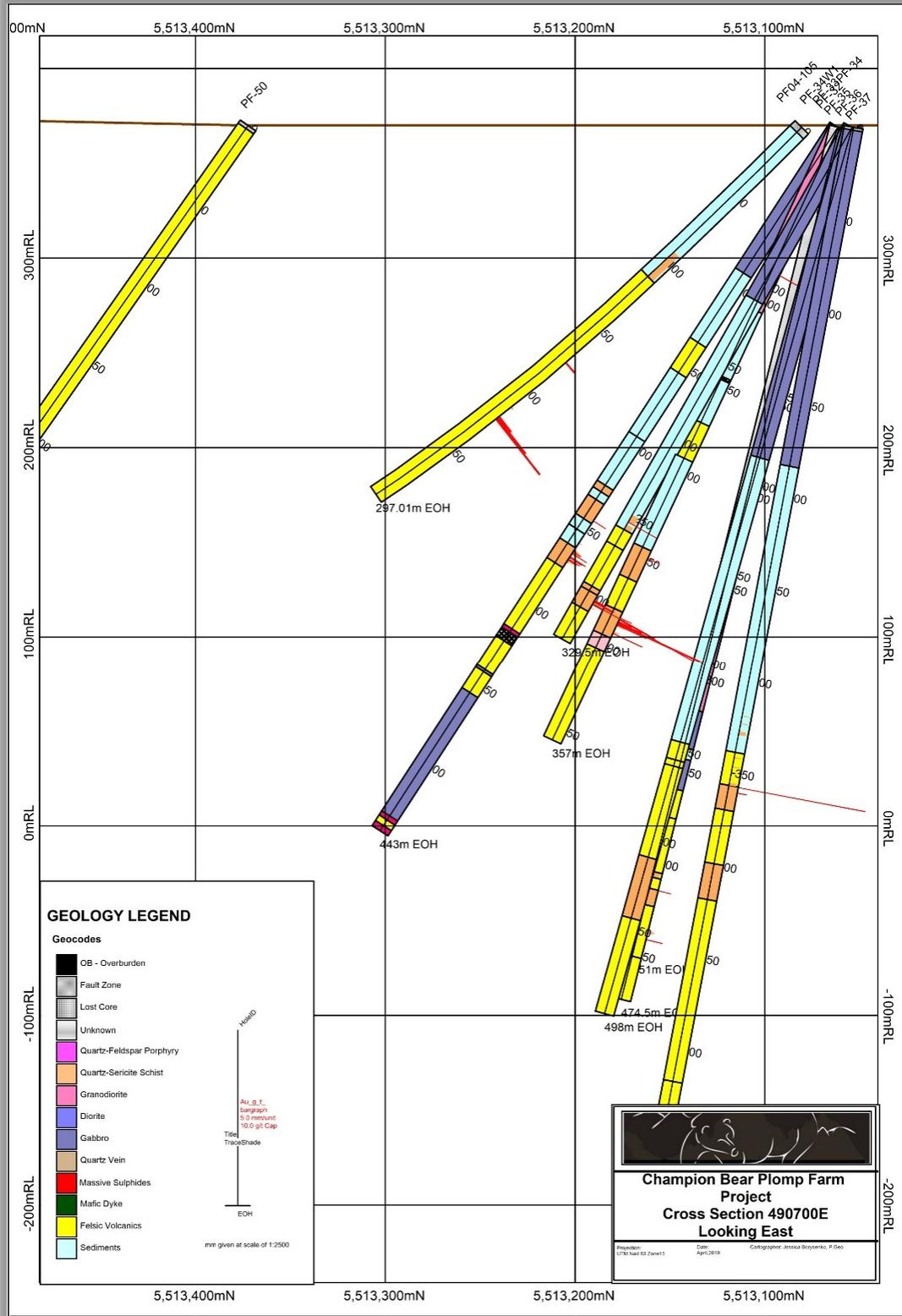
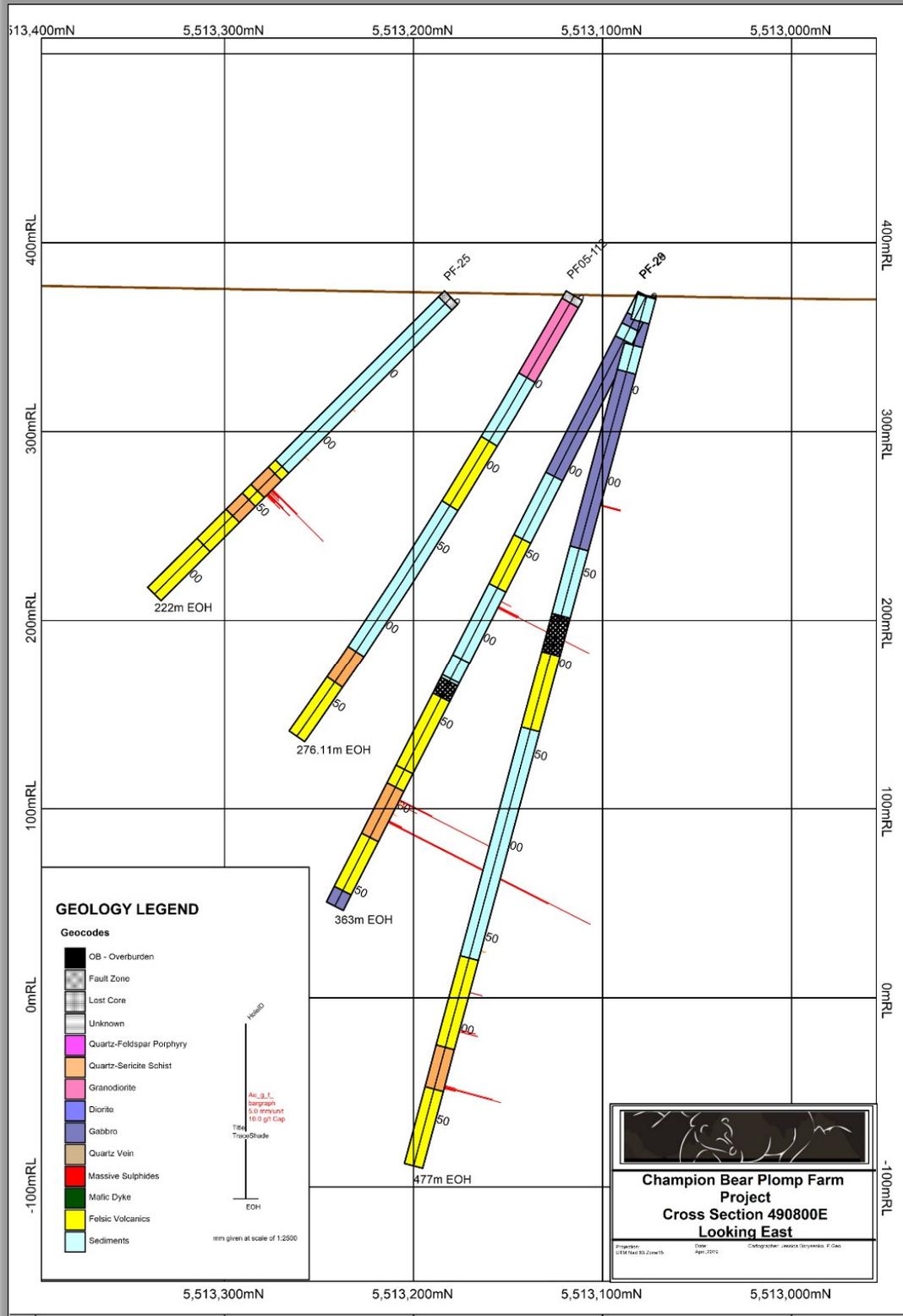


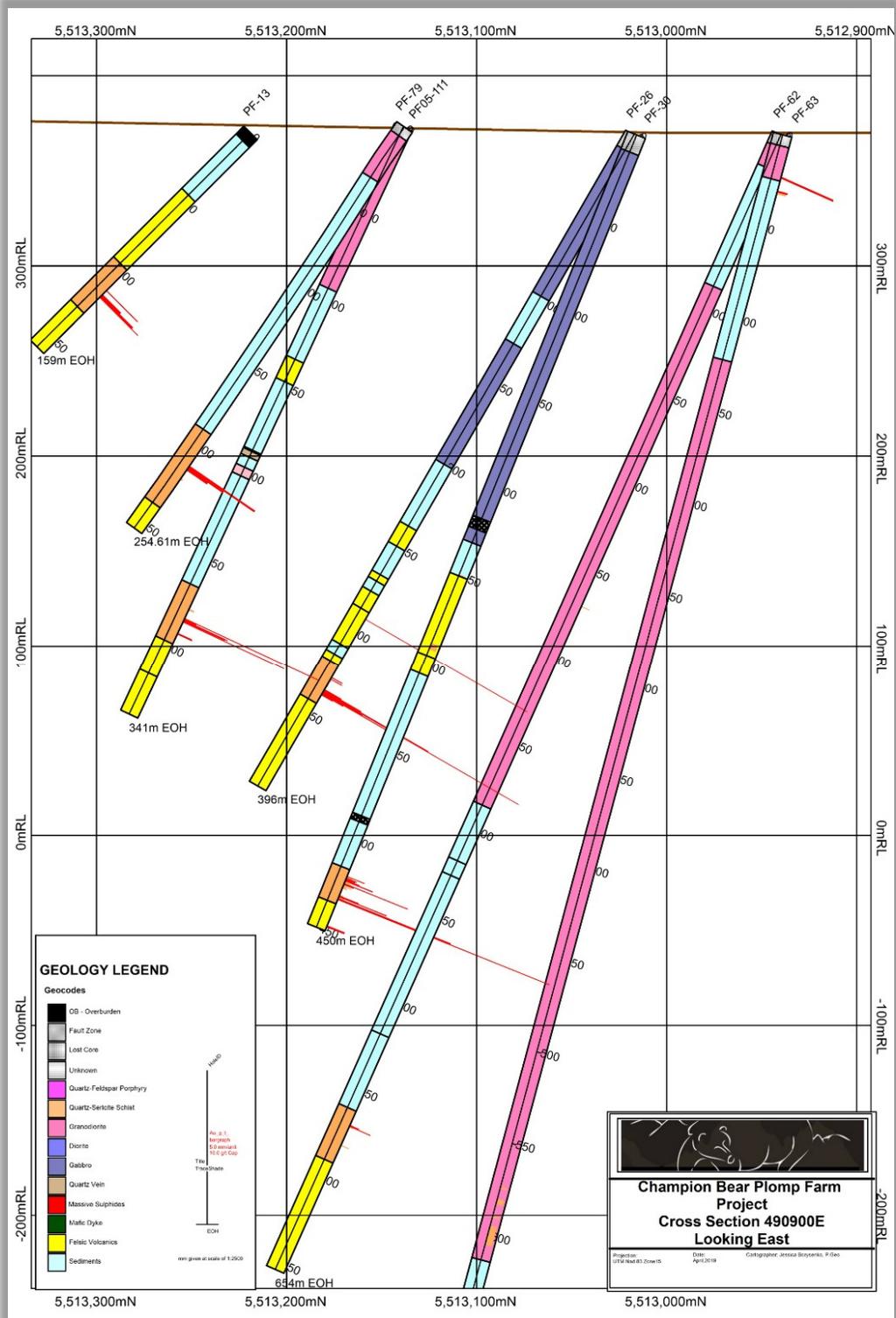
Figure 10.2 Plomp Farm Section 490700 East



**Figure 10.3 Plomp Farm Section 490800 East**



**Figure 10.4 Plomp Farm Section 490900 East**



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## 10.1 SURVEYING

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### 10.1.1 COLLAR SURVEY

Diamond drillhole collar locations were physically marked and flagged prior to drilling. The geologists would locate and mark the site based on the cut grid. Drill collar azimuth was determined by Silva compass and verified by line of sight. The geologist would verify the orientation of the drill once set-up was completed.

Casing were left in some of the holes and an aluminum cap was screwed in place with the drillhole identification engraved on the top of the cap.

In 2017, Champion Bear verified 67 of the holes using a hand-held GPS.

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### 10.1.2 DOWNHOLE SURVEY

Downhole orientation surveys were completed by a variety of methods depending on the campaign. Table 10.2 summarizes the various methods used during the campaigns.

The first reading was taken at least 6 m past the end of the casing and then at an interval of approximately 50 m until the end of the hole. Acid tests and Pajari were read by the geologist. In the case of a Flexi or EZ-Shot, the readings were recorded by the driller and included the depth, azimuth (magnetic north), inclination, magnetic tool face angle, magnetic field strength, and temperature.

**Table 10.2** Summary of Downhole Survey

Survey Type	Year	Number of Survey Record
Acid Test	1994 - 1995	165
Pajari	1995	6
Flexi	2005	59
EZ-Shot	2006 - 2007	185

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### 10.1.3 WEDGE HOLES

A total of five wedge holes were completed over the five phases. Two holes in 1994 (PF-31W1 and PF-34W1) and three in 2007 (PF07-119-W1, PF07-119-W2 and PF-119-W3).

There is no description of the methodology in any of the drill reports available on how the wedges were installed. Wedging was a fair common practice in the 1980 to 2000s. Upon completion of a parent hole, a steel wedge would be placed down the hole at the desired depth. The steel wedge would force the drill bit to deflect about 1 degree of dip off the parent hole to create a branch hole (wedge hole).

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## 10.2 CORE LOGGING PROCEDURE

The following is a summary of the Plomp Farm logging procedure.

- Sample security and chain of custody started with the removal of core from the core tube and boxing of drillcore at the drill site.

- The boxed core remained under the custody of the drill contractor until it was transported from the drill to the secure onsite Core Facility by either the drill contractor or one of Champion Bear’s designated personnel.
- At the onsite Core Facility, core boxes were opened and inspected to ensure correct boxing and labeling of the core by the drill contractor.
- The company geologists logged the core, and then marked and tagged it for sampling and splitting.
- Minimum sample unit was 0.3 m; maximum sample length was 2.0 m. Variations from a standard length of 1.0 m were often necessary to accommodate variations in pegmatite zonation and lithology.
- Each core sample was assigned a tag with a unique identifying number.

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## 10.3 DRILL RESULTS

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### 10.3.1 1994 DRILLING

The following is summarized from the 1994 drilling report on the Project (*Sears, 1995*). A list of the significant results from 1994 are found in Table 10.3.

#### PF-01

The hole was drilled to a depth of 243 m to test a surface gold showing. The hole intersected weak mineralization in felsic volcanics.

#### PF-02

The hole was drilled to a depth of 245 m to test an induced polarization target. The hole intersected weak mineralization in felsic volcanics

#### PF-03

The hole was drilled to a depth of 186 m to test an induced polarization target. The hole intersected weak mineralization in felsic volcanics

**Table 10.3 1994 Significant Drill Results**

Hole ID	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)
<b>PF-01</b>	-	-	-	-	-
<b>PF-02</b>	21.40	22.50	1.10	1.249	7.29
<i>includes</i>	21.40	21.90	0.50	2.268	6.80
<b>PF-03</b>	19.90	20.60	0.70	0.661	13.00
<b>PF-03</b>	32.90	35.70	2.80	0.482	9.10
<b>PF-03</b>	68.50	69.00	0.50	0.687	8.40
<b>TAE-01</b>	36.60	39.60	3.00	0.445	-
<i>includes</i>	36.60	38.10	1.50	0.540	-
<b>TAE-01</b>	52.70	54.00	1.30	0.310	-
<b>TAE-01</b>	77.00	78.50	1.50	0.340	-

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### 10.3.2 1995 DRILLING

The following is summarized from the 1995 drilling report on the Project (*Sears, 1995*). No summary report exists for holes PF-27 to PF-38. Hard copies of the drill logs and assays certificate were available to review for holes PF-27 to PF-38. A list of the significant results from 1995 are found in Table 10.4.

#### PF-04

The hole was drilled to a depth of 285 m to test a surface gold showing and an induced polarization target. The hole intersected weak mineralization in felsic volcanics.

#### PF-05

The hole was drilled to a depth of 270 m to test a surface gold showing and an induced polarization target. The hole intersected weak mineralization in mafic volcanics.

#### PF-06

The hole was drilled to a depth of 162 m to test a surface gold showing and an induced polarization target. The hole intersected no significant mineralization.

#### PF-07

The hole was drilled to a depth of 150 m to test a surface silver showing. The hole intersected no significant mineralization.

#### PF-08

The hole was drilled to a depth of 249 m to test an induced polarization target. The hole intersected weak mineralization in weakly developed quartz-sericite schist.

#### PF-09

The hole was drilled to a depth of 150 m to test a quartz-sericite schist zone. The hole intersected weak mineralization in a quartz-sericite schist.

#### PF-10

The hole was drilled to a depth of 147 m to test a quartz-sericite schist zone. The hole intersected weak mineralization in a quartz-sericite schist.

#### PF-11

The hole was drilled to a depth of 147 m to test a quartz-sericite schist zone. The hole intersected weak mineralization in a quartz-sericite schist.

#### PF-12

The hole was drilled to a depth of 252 m to test a quartz-sericite schist zone. The hole intersected weak mineralization in a quartz-sericite schist.

#### PF-13

The hole was drilled to a depth of 159 m to test a quartz-sericite schist zone. The hole intersected weak mineralization in a quartz-sericite schist.

#### PF-14

The hole was drilled to a depth of 255 m to test shear zone and iron formation. The hole intersected no significant mineralization.

#### PF-15

The hole was drilled to a depth of 207 m to test a quartz-sericite schist zone. The hole intersected no significant mineralization.

#### PF-16

The hole was drilled to a depth of 219 m to test a quartz-sericite schist zone. The hole intersected weak mineralization in a quartz-sericite schist.

#### PF-17

The hole was drilled to a depth of 174 m to test a quartz-sericite schist zone. The hole intersected no significant mineralization

#### PF-18

The hole was drilled to a depth of 132 m to test a quartz-sericite schist zone. The hole intersected weak mineralization in a quartz-sericite schist.

#### PF-19

The hole was drilled to a depth of 135 m to test a quartz-sericite schist zone. The hole intersected weak mineralization in a quartz-sericite schist

#### PF-20

The hole was drilled to a depth of 129 m to test a quartz-sericite schist zone. The hole intersected weak mineralization in a quartz-sericite schist

#### PF-21

The hole was drilled to a depth of 180 m to test a quartz-sericite schist zone. The hole intersected weak mineralization in a quartz-sericite schist

#### PF-22

The hole was drilled to a depth of 225 m to test a quartz-sericite schist zone. The hole intersected weak mineralization in a quartz-sericite schist

#### PF-23

The hole was drilled to a depth of 228 m to test a quartz-sericite schist zone. The hole intersected weak mineralization in a quartz-sericite schist

#### PF-24

The hole was drilled to a depth of 248 m to test a quartz-sericite schist zone. The hole intersected weak mineralization in a quartz-sericite schist

#### PF-25

The hole was drilled to a depth of 222 m to test a quartz-sericite schist zone. The hole intersected weak mineralization in a quartz-sericite schist

#### PF-26

The hole was drilled to a depth of 396 m to test a quartz-sericite schist zone. The hole intersected weak mineralization in a quartz-sericite schist

## TAE-02

The hole was drilled to a depth of 134.2 m to test the strike extension of the mineralized zone delineated in 1994. The hole intersected moderate to strong quartz-sericite altered greywacke with 1% disseminated pyrite (*Stewart, 1996*).

**Table 10.4 1995 Significant Drill Results**

Hole ID	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)
PF-04	118.10	118.50	0.40	0.864	0.40
PF-04	183.70	184.20	0.50	1.164	22.60
PF-04	190.50	192.00	1.50	0.448	1.37
<i>includes</i>	190.50	191.00	0.50	0.766	2.60
<i>includes</i>	191.50	192.00	0.50	0.508	1.50
PF-05	32.00	32.30	0.30	1.826	0.50
PF-05	49.50	49.75	0.25	0.676	0.50
PF-05	425.00	426.00	1.00	0.971	8.50
PF-05	468.00	472.00	4.00	2.177	39.05
<i>includes</i>	468.00	469.00	1.00	3.210	49.50
<i>includes</i>	469.00	470.00	1.00	1.440	34.70
<i>includes</i>	470.00	471.00	1.00	3.330	45.80
<i>includes</i>	471.00	472.00	1.00	0.726	26.20
PF-06	<i>No significant results were found.</i>				
PF-07	<i>No significant results were found.</i>				
PF-08	<i>No significant results were found.</i>				
PF-09	39.00	39.50	0.50	0.296	7.50
PF-10	66.00	68.00	2.00	1.056	9.30
<i>includes</i>	66.50	67.00	0.50	0.650	5.50
<i>includes</i>	67.00	67.50	0.50	1.890	14.80
<i>includes</i>	67.50	68.00	0.50	1.370	10.60
PF-11	106.00	106.50	0.50	1.850	16.70
PF-12	177.80	178.60	0.80	0.498	16.80
PF-12	181.00	182.60	1.60	1.781	30.25
<i>includes</i>	181.80	182.60	0.80	3.190	50.00
PF-13	112.00	117.50	5.50	1.211	20.15
<i>includes</i>	112.00	112.50	0.50	2.260	22.30
<i>includes</i>	115.00	116.00	1.00	1.470	20.70
<i>includes</i>	116.00	117.00	1.00	2.300	31.70
<i>includes</i>	117.00	117.50	0.50	2.470	50.00
PF-14	<i>No significant results were found.</i>				
PF-15	<i>No significant results were found.</i>				
PF-16	<i>No significant results were found.</i>				
PF-17	<i>No significant results were found.</i>				
PF-18	48.65	48.95	0.30	0.340	5.60

(table continues on next page)

Hole ID	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)
<b>PF-18</b>	60.50	63.00	2.50	0.422	35.38
<i>includes</i>	61.00	61.50	0.50	0.497	29.80
<i>includes</i>	62.50	63.00	0.50	0.625	50.00
<b>PF-19</b>	68.90	69.60	0.70	0.325	10.50
<b>PF-19</b>	100.10	100.90	0.80	0.339	18.30
<b>PF-20</b>	<i>No significant results were found.</i>				
<b>PF-21</b>	88.10	88.60	0.50	0.436	2.50
<b>PF-21</b>	106.60	115.10	8.50	0.733	9.78
<i>includes</i>	109.60	110.10	0.50	0.940	9.20
<i>includes</i>	110.10	110.60	0.50	0.960	12.50
<i>includes</i>	110.60	111.10	0.50	1.960	21.00
<i>includes</i>	111.10	111.60	0.50	0.850	9.70
<i>includes</i>	111.60	112.10	0.50	0.940	6.80
<i>includes</i>	112.10	112.60	0.50	1.260	12.20
<i>includes</i>	112.60	113.10	0.50	0.820	14.70
<i>includes</i>	113.10	113.60	0.50	1.250	25.40
<i>includes</i>	113.60	114.10	0.50	0.415	11.50
<b>PF-21</b>	119.70	125.10	5.40	0.888	16.84
<i>includes</i>	119.70	120.10	0.40	2.000	24.20
<i>includes</i>	120.10	120.60	0.50	3.000	50.00
<i>includes</i>	121.60	122.10	0.50	1.670	28.20
<i>includes</i>	124.10	124.60	0.50	0.710	17.60
<b>PF-22</b>	136.70	137.40	0.70	1.200	10.90
<b>PF-22</b>	142.40	159.70	17.30	0.776	7.40
<i>includes</i>	145.20	145.90	0.70	1.300	28.90
<i>includes</i>	148.00	149.00	1.00	0.768	3.10
<i>includes</i>	149.00	149.95	0.95	0.674	3.70
<i>includes</i>	149.95	150.95	1.00	1.060	9.60
<i>includes</i>	150.95	151.80	0.85	0.990	8.20
<i>includes</i>	158.50	159.20	0.70	0.790	7.00
<i>includes</i>	159.20	159.70	0.50	7.060	50.00
<b>PF-23</b>	82.00	86.00	4.00	0.726	40.45
<i>includes</i>	82.00	83.00	1.00	0.875	43.60
<i>includes</i>	84.00	85.00	1.00	1.470	14.20
<b>PF-23</b>	125.00	129.20	4.20	0.392	10.05
<i>includes</i>	125.00	125.50	0.50	0.455	13.10
<i>includes</i>	126.00	126.50	0.50	0.404	13.40
<i>includes</i>	127.50	128.10	0.60	0.510	8.60
<i>includes</i>	128.10	128.70	0.60	0.650	15.80
<b>PF-24</b>	152.00	153.00	1.00	0.352	6.30
<b>PF-24</b>	154.50	155.20	0.70	0.326	5.80
<b>PF-24</b>	160.20	160.90	0.70	0.930	6.30
<b>PF-24</b>	163.00	163.70	0.70	0.375	6.00

(table continues on next page)

Hole ID	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)
PF-25	131.80	132.30	0.50	0.309	13.70
PF-25	137.30	143.80	6.50	1.123	13.48
<i>includes</i>	138.30	138.80	0.50	1.890	16.10
<i>includes</i>	138.80	139.30	0.50	3.490	24.50
<i>includes</i>	139.30	139.80	0.50	0.860	10.00
<i>includes</i>	139.80	140.30	0.50	0.650	17.10
<i>includes</i>	140.30	140.80	0.50	0.940	14.30
<i>includes</i>	141.30	141.80	0.50	1.190	20.00
<i>includes</i>	141.80	142.30	0.50	1.720	20.70
<i>includes</i>	142.30	142.80	0.50	0.880	10.70
<i>includes</i>	142.80	143.30	0.50	1.200	19.70
<i>includes</i>	143.30	143.80	0.50	0.700	7.80
PF-26	291.10	291.50	0.40	8.260	47.80
PF-26	326.30	337.90	11.60	12.678	11.33
<i>includes</i>	326.80	327.30	0.50	0.930	3.90
<i>includes</i>	327.80	328.30	0.50	0.960	4.20
<i>includes</i>	334.20	334.70	0.50	1.230	9.20
<i>includes</i>	334.70	335.20	0.50	1.950	17.20
<i>includes</i>	335.20	335.60	0.40	4.590	37.40
<i>includes</i>	335.60	336.00	0.40	9.910	50.00
<i>includes</i>	336.00	336.40	0.40	2.330	25.70
<i>includes</i>	336.40	336.90	0.50	3.600	50.00
<i>includes</i>	336.90	337.40	0.50	1.410	24.30
<i>includes</i>	337.40	337.90	0.50	0.750	15.10
PF-27	<i>No significant results were found.</i>				
PF-28	178.90	179.40	0.50	0.890	5.60
PF-28	181.30	183.30	2.00	1.938	5.85
<i>includes</i>	181.80	182.30	0.50	1.370	4.90
<i>includes</i>	182.30	182.80	0.50	4.730	3.50
<i>includes</i>	182.80	183.30	0.50	1.340	12.10
PF-29	113.00	114.00	1.00	1.280	
PF-29	357.70	358.70	1.00	0.555	3.60
<i>includes</i>	357.70	358.20	0.50	0.640	2.70
PF-29	380.50	381.00	0.50	0.957	0.40
PF-29	401.00	402.50	1.50	0.885	10.07
<i>includes</i>	401.00	401.50	0.50	1.100	14.90
<i>includes</i>	402.00	402.50	0.50	1.222	11.50
PF-29	431.50	433.50	2.00	1.683	7.63
<i>includes</i>	432.00	432.50	0.50	2.510	10.20
<i>includes</i>	432.50	433.00	0.50	2.440	11.10

(table continues on next page)

Hole ID	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)
<b>PF-30</b>	419.00	426.00	7.00	0.969	4.81
<i>includes</i>	419.00	419.50	0.50	1.200	2.80
<i>includes</i>	421.00	421.50	0.50	1.030	2.90
<i>includes</i>	421.50	422.00	0.50	1.650	9.00
<i>includes</i>	423.00	423.50	0.50	3.290	11.70
<b>PF-30</b>	429.00	432.50	3.50	3.121	10.70
<i>includes</i>	430.00	430.50	0.50	1.240	9.50
<i>includes</i>	430.50	431.00	0.50	2.570	20.10
<i>includes</i>	431.50	432.00	0.50	5.420	27.00
<i>includes</i>	432.00	432.50	0.50	11.280	47.50
<b>PF-31</b>	516.50	517.00	0.50	0.393	36.00
<b>PF-31W1</b>	<i>No significant results were found.</i>				
<b>PF-32</b>	241.50	242.00	0.50	0.358	0.40
<b>PF-32</b>	258.00	258.50	0.50	0.510	2.60
<b>PF-32</b>	262.50	270.00	7.50	0.705	8.58
<i>includes</i>	264.50	265.00	0.50	1.130	10.90
<i>includes</i>	266.50	267.00	0.50	1.120	4.50
<i>includes</i>	267.00	267.50	0.50	0.930	8.90
<i>includes</i>	268.00	268.50	0.50	0.880	11.60
<i>includes</i>	268.50	269.00	0.50	0.810	9.90
<i>includes</i>	269.00	269.50	0.50	0.780	12.90
<b>PF-33</b>	244.65	245.70	1.05	0.417	3.33
<b>PF-33</b>	280.50	292.50	12.00	0.925	4.13
<i>includes</i>	283.00	283.50	0.50	0.950	5.50
<i>includes</i>	283.50	284.00	0.50	0.640	3.70
<i>includes</i>	285.00	285.50	0.50	1.020	3.50
<i>includes</i>	285.50	286.00	0.50	1.270	2.70
<i>includes</i>	286.00	286.50	0.50	4.280	11.60
<i>includes</i>	286.50	287.00	0.50	4.410	18.80
<i>includes</i>	287.00	287.50	0.50	1.790	4.50
<i>includes</i>	287.50	288.00	0.50	0.790	2.80
<i>includes</i>	291.00	291.50	0.50	0.670	3.70
<i>includes</i>	291.50	292.00	0.50	0.560	4.00
<i>includes</i>	292.00	292.50	0.50	1.770	7.30
<b>PF-34</b>	435.50	441.00	5.50	0.485	9.05
<i>includes</i>	436.00	436.50	0.50	0.620	7.20
<i>includes</i>	436.50	437.00	0.50	0.680	11.90
<i>includes</i>	437.00	437.50	0.50	0.620	15.60
<i>includes</i>	440.50	441.00	0.50	1.120	18.20
<b>PF-34W1</b>	416.50	417.00	0.50	0.442	5.00
<b>PF-34W1</b>	418.50	419.00	0.50	0.405	5.70
<b>PF-34W1</b>	421.00	421.50	0.50	0.442	11.40
<b>PF-35</b>	91.50	92.00	0.50	0.487	3.10

(table continues on next page)

Hole ID	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)
<b>PF-35</b>	301.50	304.50	3.00	2.052	9.00
<i>includes</i>	302.00	302.50	0.50	1.370	8.00
<i>includes</i>	302.50	303.00	0.50	1.030	7.10
<i>includes</i>	303.00	303.50	0.50	0.750	7.50
<i>includes</i>	303.50	304.00	0.50	2.960	9.70
<i>includes</i>	304.00	304.50	0.50	5.310	14.30
<b>PF-36</b>	373.00	374.00	1.00	0.439	4.50
<b>PF-37</b>	356.70	357.20	0.50	5.860	11.00
<b>PF-37</b>	359.00	362.20	2.50	0.365	1.72
<i>includes</i>	360.70	361.20	0.50	0.325	2.00
<i>includes</i>	361.70	362.20	0.50	0.348	1.50
<b>PF-38</b>	457.00	457.50	0.50	3.870	1.80
<b>PF-38</b>	526.50	528.00	1.50	1.457	13.10
<i>includes</i>	527.00	527.50	0.50	1.350	6.70
<i>includes</i>	527.50	528.00	0.50	2.370	23.20
<b>TAE-02</b>	128.70	130.20	1.50	0.330	-

### 10.3.3 1996 DRILLING

No summary report exists for holes PF-39 to PF-69, however, hard copies of the drill logs and assay certificates were available for review. A list of the significant results from 1996 are found in Table 10.5.

#### TA-03

The hole was drilled to a depth of 376 m to test the strike extension of the mineralized zone and undercut two shallower holes. The hole intersected variable sericitized and pyritic felsic volcanics and schists (Page, 1996).

**Table 10.5 1996 Significant Drill Results**

Hole ID	From (m)	To (m)	Interval (m)	Au (ppm)
<b>PF-39</b>	489.50	492.70	3.200	2.02
<i>includes</i>	489.50	490.00	0.50	7.120
<b>PF-40</b>	415.50	416.50	1.00	2.906
<b>PF-41</b>	203.00	204.00	1.00	1.350
<b>PF-41</b>	231.00	236.00	3.70	0.814
<b>PF-42</b>	<i>No significant results were found.</i>			
<b>PF-43</b>	<i>No significant results were found.</i>			
<b>PF-44</b>	163.80	164.30	0.50	0.309
<b>PF-45</b>	164.00	164.50	0.50	0.384
<b>PF-46</b>	<i>No significant results were found.</i>			
<b>PF-47</b>	<i>No significant results were found.</i>			
<b>PF-48</b>	<i>No significant results were found.</i>			
<b>PF-49</b>	<i>No significant results were found.</i>			

(table continues on next page)

Hole ID	From (m)	To (m)	Interval (m)	Au (ppm)
PF-50	No significant results were found.			
PF-51	No significant results were found.			
PF-52	No significant results were found.			
PF-53	No significant results were found.			
PF-54	No significant results were found.			
PF-55	No significant results were found.			
PF-56	282.00	283.00	1.00	2.095
PF-56	312.00	312.80	0.80	1.160
PF-56	341.60	342.80	1.20	1.650
PF-57	399.00	399.50	0.50	2.120
PF-58	496.50	501.50	5.00	1.530
<i>includes</i>	497.50	498.00	0.50	3.480
<i>includes</i>	498.00	498.50	0.50	3.300
PF-62	569.00	569.50	0.50	1.370
PF-66	15.00	16.20	1.20	1.730
PF-66	51.00	53.50	2.50	1.484

### 10.3.4 1997 DRILLING

No summary report exists for holes PF-69 to PF-85, however, hard copies of the drill logs and assay certificates were available for review. A list of the significant results from 1997 are found in Table 10.6.

**Table 10.6 1997 Significant Drill Results**

Hole ID	From (m)	To (m)	Interval (m)	Au (ppm)
PF-70	40.00	41.00	1.000	2.95
PF-70	253.50	255.00	1.50	7.990
PF-70	344.00	345.00	1.00	4.320
PF-71	389.00	392.00	3.00	4.683
<i>includes</i>	389.00	390.00	1.00	2.250
<i>includes</i>	390.00	391.00	1.00	4.050
<i>includes</i>	391.00	392.00	1.00	7.750
PF-72	407.00	409.50	2.50	6.104
PF-73				
PF-74	609.50	611.00	1.50	2.190
PF-75	269.00	272.00	3.00	1.660
PF-76	429.90	434.00	4.10	1.318
PF-76	478.50	481.40	2.90	11.158
<i>includes</i>	478.50	479.40	0.90	35.110
PF-77	700.00	702.00	2.00	0.425
<i>includes</i>	700.00	701.00	1.00	0.448
<i>includes</i>	701.00	702.00	1.00	0.402

(table continues on next page)

Hole ID	From (m)	To (m)	Interval (m)	Au (ppm)
<b>PF-78</b>				
<b>PF-79</b>	282.50	285.00	2.50	3.476
<i>includes</i>	282.50	283.00	0.50	6.620
<i>includes</i>	283.50	284.00	0.50	2.440
<i>includes</i>	284.00	284.50	0.50	2.320
<i>includes</i>	284.50	285.00	0.50	5.100
<b>PF-79</b>	291.00	292.00	1.00	1.070
<b>PF-80</b>	528.00	529.00	1.00	0.340
<b>PF-80</b>	536.00	543.00	7.00	0.365
<i>includes</i>	542.00	543.00	1.00	0.530
<b>PF-81</b>	639.40	640.40	1.00	0.496
<i>includes</i>	639.40	639.90	0.50	0.550
<i>includes</i>	639.90	640.40	0.50	0.442
<b>PF-82</b>	468.60	469.30	0.70	1.200
<b>PF-83</b>	470.00	471.00	1.00	1.000
<b>PF-83</b>	569.00	570.00	1.00	10.250
<b>PF-83</b>	597.50	598.90	1.40	6.120
<b>PF-84</b>	429.50	448.00	18.40	0.701
<i>includes</i>	429.50	430.50	1.00	0.727
<i>includes</i>	430.50	431.50	1.00	2.150
<i>includes</i>	431.50	432.50	1.00	0.406
<i>includes</i>	436.70	437.40	0.70	1.270
<i>includes</i>	437.40	438.00	0.60	1.010
<i>includes</i>	438.00	439.00	1.00	1.120
<i>includes</i>	443.00	444.00	1.00	1.120
<i>includes</i>	444.00	445.00	1.00	1.100
<i>includes</i>	447.00	448.00	1.00	0.860
<b>PF-84</b>	466.50	467.50	1.00	0.620
<b>PF-84</b>	486.50	487.00	0.50	0.462
<b>PF-85</b>	514.50	515.00	0.50	0.910

### 10.3.5 2004 DRILLING

The following is summarized from the 2004 drilling report on the Project (*Hinzer and Smolen, 2006*). A list of the significant results from 2004 are found in Table 10.7.

#### PF04-100

The hole was drilled to a depth of 183 m to test a shallow induced polarization target. The hole intersected weak mineralization.

#### PF04-101

The hole was drilled to a depth of 549 m to test a shallow induced polarization target and 50 m below PF04-100. The hole intersected several mineralized zones.

#### PF04-102

The hole was drilled to a depth of 450 m to map the lithology of the southern part of the Project. The hole intersected the south contact of the granodiorite intrusion.

#### PF04-103

The hole was drilled to a depth of 243 m to test 100 m further east of the target encountered in PF04-100. The hole intersected several mineralized zones.

#### PF04-104

The hole was drilled to a depth of 286.5 m to test up dip of the mineralization encountered in the previous holes. The hole intersected several mineralized zones.

#### PF04-105

The hole was drilled to a depth of 297 m to test near surface the mineralization encountered in the previous holes. The hole intersected several mineralized zones.

#### PF04-106

The hole was drilled to a depth of 252 m to test near surface the mineralization encountered in the previous holes. The hole did not intersect any significant mineralization.

#### PF04-107

The hole was drilled to a depth of 540 m to map the lithology of the northern part of the Project. The hole intersected sheared quartz-feldspathic metasediments.

**Table 10.7 2004 Significant Drill Results**

Hole ID	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)
<b>PF04-100</b>	122.00	126.00	4.00	1.831	8.30
<i>includes</i>	122.00	123.00	1.00	6.012	17.10
<i>includes</i>	123.00	124.00	1.00	0.590	5.30
<i>includes</i>	124.00	125.00	1.00	0.401	4.70
<b>PF04-100</b>	132.00	143.00	11.00	0.450	4.22
<i>includes</i>	132.00	133.00	1.00	0.499	2.40
<i>includes</i>	135.00	136.00	1.00	0.564	4.80
<i>includes</i>	139.00	140.00	1.00	1.148	7.40
<i>includes</i>	142.00	143.00	1.00	0.462	4.90
<b>PF04-101</b>	150.50	151.50	1.00	0.418	1.10
<b>PF04-101</b>	189.00	190.00	1.00	0.888	1.70
<b>PF04-101</b>	198.00	199.00	1.00	0.343	7.70

(table continues on next page)

Hole ID	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)
<b>PF04-101</b>	208.00	224.00	16.00	0.589	3.76
<i>includes</i>	208.00	209.00	1.00	0.633	5.50
<i>includes</i>	209.00	210.00	1.00	0.777	7.20
<i>includes</i>	210.00	211.00	1.00	0.352	8.20
<i>includes</i>	216.00	217.00	1.00	3.335	4.70
<i>includes</i>	217.00	218.00	1.00	1.505	5.90
<i>includes</i>	218.00	219.00	1.00	0.304	2.50
<i>includes</i>	220.00	221.00	1.00	0.361	3.50
<i>includes</i>	222.00	223.00	1.00	0.488	3.10
<b>PF04-102</b>	<i>No significant results were found.</i>				
<b>PF04-103</b>	154.00	155.00	1.00	0.477	7.30
<b>PF04-103</b>	168.00	170.00	2.00	0.740	7.00
<i>includes</i>	168.00	169.00	1.00	0.652	5.60
<i>includes</i>	169.00	170.00	1.00	0.828	8.40
<b>PF04-103</b>	186.00	196.00	10.00	0.808	4.20
<i>includes</i>	186.00	187.00	1.00	0.337	3.80
<i>includes</i>	187.00	188.00	1.00	0.799	4.30
<i>includes</i>	188.00	189.00	1.00	0.603	3.60
<i>includes</i>	189.00	190.00	1.00	0.997	4.10
<i>includes</i>	190.00	191.00	1.00	0.810	1.40
<i>includes</i>	191.00	192.00	1.00	0.810	1.40
<i>includes</i>	192.00	193.00	1.00	0.233	2.10
<i>includes</i>	193.00	194.00	1.00	0.939	4.80
<i>includes</i>	194.00	195.00	1.00	0.793	5.60
<i>includes</i>	195.00	196.00	1.00	1.760	10.90
<b>PF04-104</b>	228.00	229.00	1.00	0.389	3.20
<b>PF04-104</b>	236.00	247.00	11.00	0.708	5.44
<i>includes</i>	236.00	237.00	1.00	0.369	2.40
<i>includes</i>	237.00	238.00	1.00	0.260	2.80
<i>includes</i>	238.00	239.00	1.00	0.339	3.10
<i>includes</i>	239.00	240.00	1.00	0.647	7.10
<i>includes</i>	240.00	241.00	1.00	1.040	8.90
<i>includes</i>	241.00	242.00	1.00	0.765	7.10
<i>includes</i>	242.00	243.00	1.00	0.250	1.90
<i>includes</i>	243.00	244.00	1.00	2.060	9.60
<i>includes</i>	244.00	245.00	1.00	1.250	9.20
<i>includes</i>	245.00	246.00	1.00	0.461	4.40
<i>includes</i>	246.00	247.00	1.00	0.352	3.30

(table continues on next page)

Hole ID	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)
PF04-104	267.00	268.00	1.00	0.376	4.40
PF04-104	278.00	279.00	1.00	0.607	1.00
PF04-105	174.00	176.00	2.00	0.702	8.35
<i>includes</i>	174.00	175.00	1.00	0.421	7.40
<i>includes</i>	175.00	176.00	1.00	0.982	9.30
PF04-105	187.00	188.00	1.00	0.396	3.30
PF04-105	212.00	223.00	11.00	0.804	5.12
<i>includes</i>	212.00	213.00	1.00	0.517	5.20
<i>includes</i>	214.00	215.00	1.00	0.391	3.40
<i>includes</i>	219.00	220.00	1.00	0.371	4.20
<i>includes</i>	220.00	221.00	1.00	1.230	6.80
<i>includes</i>	221.00	222.00	1.00	2.340	11.20
<i>includes</i>	222.00	223.00	1.00	3.400	13.60
PF04-106	<i>No significant results were found.</i>				
PF04-107	510.00	511.00	1.00	3.690	59.40

### 10.3.6 2005 DRILLING

No summary report exists for holes PF05-110 to PF05-118, however, hard copies of the drill logs and assay certificates were available for review. A list of the significant results from 2005 are found in Table 10.8.

**Table 10.8 2005 Significant Drill Results**

Hole ID	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)
PF05-110	193.00	197.00	4.00	0.431	11.78
<i>includes</i>	194.00	195.00	1.00	0.516	14.10
PF05-111	211.00	220.00	9.00	0.993	12.42
<i>includes</i>	211.00	212.00	1.00	3.750	32.20
<i>includes</i>	212.00	213.00	1.00	2.200	22.40
<i>includes</i>	213.00	214.00	1.00	1.440	15.10
<i>includes</i>	219.00	220.00	1.00	0.504	12.30
PF05-112	237.00	238.00	1.00	0.440	15.40
PF05-113	12.00	13.00	1.00	0.562	0.90
PF05-113	21.00	21.50	0.50	1.890	13.90
PF05-114	389.00	391.00	2.00	0.652	-
<i>includes</i>	389.00	390.00	1.00	0.890	-
PF05-114	396.00	399.00	3.00	0.670	7.33
<i>includes</i>	396.00	397.00	1.00	0.902	10.00
<i>includes</i>	397.00	398.00	1.00	0.770	6.00
PF05-114	400.00	402.00	2.00	0.500	4.35
<i>includes</i>	401.00	402.00	1.00	0.611	5.40
PF05-115	411.00	411.60	0.60	0.597	4.30

*(table continues on next page)*

Hole ID	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)
PF05-115	416.00	417.00	1.00	0.313	1.10
PF05-115	428.00	429.00	1.00	0.465	9.90
PF05-115	451.00	453.00	2.00	0.527	5.70
<i>includes</i>	451.00	452.00	1.00	0.658	9.00
PF05-116	4.00	5.00	1.00	0.366	0.80
PF05-116	33.00	34.00	1.00	0.749	11.80
PF05-116	48.00	60.00	12.00	0.425	6.14
<i>includes</i>	49.00	50.00	1.00	1.230	11.60
<i>includes</i>	55.00	56.00	1.00	0.677	11.70
PF05-117	57.00	62.00	5.00	0.338	0.90
<i>includes</i>	57.00	58.00	1.00	0.576	0.60
PF05-118	125.00	126.00	1.00	0.321	2.90
PF05-118	149.00	150.00	1.00	0.326	1.70
PF05-118	220.00	222.00	2.00	0.521	23.85
<i>includes</i>	220.00	221.00	1.00	0.598	27.80
<i>includes</i>	221.00	222.00	1.00	0.443	19.90

### 10.3.7 2006 DRILLING

The following is summarized from the 2006 drilling report on the Project (*Smolen and Hinzer, 2008*). A list of the significant results from 2007 are found in Table 10.9.

#### PF06-119

The hole was drilled to a depth of 743.5 m to test the down dip continuity of the gold mineralization and alteration halo. The hole intersected alteration from 569 m to 629 m.

#### PF06-120

The hole was drilled to a depth of 58 m to test the continuity of the western portion of the gold mineralization and alteration halo. The hole intersected numerous weak mineralization zones.

#### PF06-121

The hole was drilled to a depth of 702.1 m to test the western portion of the gold mineralization. The hole intersected two zones of anomalous gold.

#### PF06-122

The hole was drilled to a depth of 1,034.6 m to test the down dip extension of the gold mineralization. The hole intersected numerous weak mineralization zones.

#### PF06-123

The hole was drilled to a depth of 852 m to test the western extension of the gold mineralization. The hole intersected numerous weak mineralization zones.

#### PF06-124

The hole was drilled to a depth of 948.5 m to test the down dip extension of the gold mineralization. The hole intersected alteration from 788 m to 861 m.

**Table 10.9 2006 Significant Drill Results**

Hole ID	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)
PF06-119	476.00	477.00	1.000	1.02	0.9
PF06-119	579.00	586.00	7.00	2.130	3.42
<i>includes</i>	579.00	57.40	0.40	31.700	33.30
<i>includes</i>	583.00	584.00	1.00	0.700	2.60
<i>includes</i>	585.00	586.00	1.00	0.790	2.70
PF06-119	595.00	596.00	1.00	1.030	5.30
PF06-119	600.00	604.00	4.00	0.630	6.17
<i>includes</i>	600.00	601.00	1.00	0.800	19.00
<i>includes</i>	601.00	602.00	1.00	0.670	12.50
<i>includes</i>	602.00	603.00	1.00	0.500	5.70
<i>includes</i>	603.00	604.00	1.00	0.550	5.90
PF06-119	622.50	623.50	1.00	1.290	15.10
PF06-120	444.00	445.00	1.00	0.535	1.40
PF06-120	463.00	464.00	1.00	0.456	3.00
PF06-120	485.00	486.00	1.00	0.478	2.20
PF06-120	520.50	521.50	1.00	3.030	8.30
PF06-121	457.00	458.00	1.00	1.910	2.20
PF06-121	576.00	579.00	4.00	0.530	11.63
<i>includes</i>	578.00	579.00	1.00	0.798	9.30
PF06-122	510.20	511.20	1.00	0.445	0.40
PF06-122	753.00	753.50	0.50	0.436	0.40
PF06-122	862.50	865.00	2.50	0.523	2.84
<i>includes</i>	862.50	863.00	0.50	0.532	4.20
<i>includes</i>	863.50	864.00	0.50	0.612	2.60
<i>includes</i>	864.00	864.50	0.50	0.491	2.00
<i>includes</i>	864.50	865.00	0.50	0.739	3.90
PF06-122	887.00	887.50	0.50	0.728	8.10
PF06-122	890.50	891.50	1.00	1.001	7.00
<i>includes</i>	890.50	891.00	0.50	1.220	9.10
<i>includes</i>	891.00	891.50	0.50	0.781	4.90
PF06-122	906.00	907.00	1.00	1.300	9.50
PF06-123	523.50	524.30	0.80	0.638	0.40
PF06-123	687.00	688.00	1.00	0.554	2.50
PF06-123	799.00	800.00	1.00	0.446	4.90
PF06-123	825.70	826.70	1.00	0.408	8.70
PF06-124	805.00	806.00	1.00	0.558	1.80
PF06-124	811.50	812.50	1.00	0.797	4.45
<i>includes</i>	811.50	812.00	0.50	0.850	4.70
<i>includes</i>	812.00	812.50	0.50	0.743	4.20
PF06-124	857.00	859.50	2.50	0.401	2.84
<i>includes</i>	857.00	857.50	0.50	0.448	1.90
<i>includes</i>	858.50	859.00	0.50	0.457	5.00
<i>includes</i>	859.00	859.50	0.50	0.450	4.00

### 10.3.8 2007 DRILLING

The following is summarized from the 2007 drilling report on the Project (Smolen, et al, 2009). A list of the significant results from 2007 are found in Table 10.10.

#### PF07-125

The hole was drilled to a depth of 449 m targeting an Induced Polarization target. Intersections of disseminated sulphides, primarily pyrite were sampled with no significant assays.

#### PF07-126

The hole was drilled to a depth of 248 m targeting an Induced Polarization target. Intersected weak gold mineralization of 278 ppb at 181.0 to 182.0 m

#### PF07-119-W1

The first wedge on hole 119 (drilled in 20016 as PF06-119) was at 389m of the original hole. The hole targeted up dip of the gold mineralization encountered in the original hole. The hole intersected intercalated meta-sedimentary and volcanics with intense shearing.

#### PF07-119-W2

The second wedge on hole 119 (drilled in 20016 as PF06-119) was at 358m of the original hole. The hole targeted east of the gold mineralization encountered in the original hole. The hole intersected intercalated meta-sedimentary and volcanics with intense shearing.

#### PF07-119-W3

The third wedge on hole 119 (drilled in 20016 as PF06-119) was at 327m of the original hole. The hole targeted below of the gold mineralization encountered in the original hole. The hole intersected intercalated meta-sedimentary and volcanics with intense shearing.

**Table 10.10 2007 Significant Drill Results**

Hole ID	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)
PF07-125	348.00	349.00	1.00	0.029	0.60
PF07-125	413.00	414.00	1.00	0.023	0.90
PF07-126	174.00	175.00	1.00	0.091	0.80
PF07-126	181.00	182.00	1.00	0.278	1.90
PF07-119-W1	552.00	562.00	10.00	0.062	1.08
<i>includes</i>	560.00	561.00	1.00	0.930	2.10
PF07-119-W1	566.00	581.00	15.00	0.081	1.11
<i>includes</i>	575.00	576.00	1.00	0.315	1.80
PF07-119-W1	584.00	598.00	14.00	0.081	1.11
<i>includes</i>	592.00	594.10	2.10	0.890	13.09
PF07-119-W1	612.00	632.00	20.00	1.586	2.81
<i>includes</i>	623.70	624.10	0.40	71.600	9.50
PF07-119-W2	559.00	585.00	26.00	0.073	1.49
<i>includes</i>	570.70	571.20	0.50	0.892	17.00

(table continues on next page)

Hole ID	From (m)	To (m)	Interval (m)	Au (ppm)	Ag (ppm)
<b>PF07-119-W2</b>	589.00	638.00	49.00	0.144	2.01
<i>includes</i>	589.00	589.40	0.40	0.581	4.20
<i>includes</i>	591.40	592.00	0.60	0.896	7.10
<i>includes</i>	597.00	598.00	1.00	0.888	8.50
<i>includes</i>	598.00	599.00	1.00	0.606	8.40
<b>PF07-119-W3</b>	570.00	585.00	15.00	0.128	1.25
<i>includes</i>	584.00	584.50	0.50	1.290	5.80
<b>PF07-119-W3</b>	590.00	622.00	32.00	0.348	2.84
<i>includes</i>	593.00	594.00	1.00	2.710	3.60
<i>includes</i>	606.00	607.00	1.00	1.150	7.00
<i>includes</i>	607.00	607.70	0.70	1.140	2.80
<i>includes</i>	607.70	608.00	0.30	2.540	15.50
<i>includes</i>	608.00	608.30	0.30	1.930	15.30
<i>includes</i>	609.00	610.00	1.00	1.200	7.70
<i>includes</i>	612.00	613.00	1.00	1.190	7.80
<i>includes</i>	613.00	614.00	1.00	0.790	4.60
<i>includes</i>	614.00	615.00	1.00	1.380	11.90
<b>PF07-119-W3</b>	630.00	631.00	1.00	0.000	10.90

## 10.4 QP'S OPINION

It is the QP's opinion that the drilling and logging procedures put in place by Champion Bear meet acceptable industry standards and that the information can be used for future geological and resource modeling.

# 11 SAMPLE PREPARATION, ANALYSES, AND SECURITY

The monthly drill reports and drill program summary report do not describe the sample preparation and analysis process in detail. The QP has access to all the assay certificates on the Project. The certificates have been recovered from ALS Minerals and Actlabs following a data request. Both Actlabs and ALS are accredited facilities. At the time the Project was active, ALS was called Bondar-Clegg. Each assay certificate lists a series of preparation and analysis codes. The QP accessed the laboratory's websites and queried the codes to determine the procedures.

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## 11.1 CORE SAMPLING APPROACH

The following is a summary of the Champion Bear sampling procedure.

- Sample lengths were typically one metre, but would vary somewhat depending on zone mineralogy and boundaries.
  - Core marked for sampling was sawn using a diamond core saw with a jig to assure the core was cut lengthwise into equal halves.
  - Half of the cut core was placed in clean individual plastic bags with the appropriate sample tag.
  - The samples were then placed in rice bags for shipment to an analytical laboratory for quantitative analysis of select elements.
  - The remaining half of the core was retained and incorporated into Champion Bear's secure core library.
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## 11.2 LABORATORY SAMPLE PREPARATION

A review of the assay certificate indicated a typical drillcore preparation was used:

- Dry, crush (<5 kg) -8 mesh (2 mm);
- Split (1000 g);
- Pulverize (to -75 µm).

At no time was an employee of Champion Bear involved with the preparation of the samples.

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## 11.3 ANALYTICAL PROCEDURE

A review of the assay certificate indicated a typical gold exploration suite of analysis was used. Gold was analyzed using fire assay with atomic absorption finish (FA/AA) in the 1990s. If the results exceeded 10 g/t, the samples were re-run using a gravimetric finish. If visible gold was observed in the drillcore, the samples were analyzed using a screen metallic method. In the 2000s, the analytical method was switched to instrumental neutron activation analysis when a different laboratory was selected to complete the services. Table 11.1 presents a summary of the analytical procedures.

**Table 11.1 Analytical Procedures**

Year	Laboratory	Gold Analytical Method	Other Elements
1994	Bondar Clegg	fire assay with atomic absorption finish	ICP
1995	Bondar Clegg	fire assay with atomic absorption finish	ICP
1996	Bondar Clegg	fire assay with atomic absorption finish	ICP
1997	Bondar Clegg (Intertek)	fire assay with atomic absorption finish	ICP
2004	Act Labs	Instrumental Neutron Activation Analysis	INAA/ ICP-MS
2005	Act Labs	Instrumental Neutron Activation Analysis	INAA/ ICP-MS
2006	Act Labs	Instrumental Neutron Activation Analysis	INAA/ ICP-MS
2007	Act Labs	Instrumental Neutron Activation Analysis	INAA/ ICP-MS

The following elements were routinely analyzed:

- Gold
- Silver
- Copper
- Lead
- Zinc

Additional elements were analyzed periodically.

At no time was an employee of Champion Bear involved in the analytical process.

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## 11.4 QUALITY ASSURANCE / QUALITY CONTROL

Champion Bear did not run a dedicated quality assurance / quality control (QA/QC) program by inserting blanks, duplicates, and standards. Champion Bear relied upon the internal QA/QC program of the laboratories to identify quality issues.

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## 11.5 QP'S OPINION

It is the QP's opinion that the sample preparation and analytical procedures put in place by Champion Bear met acceptable industry standards at the time. The information in the current state can be used for future geological and resource modeling. The QP would not expect any future resource model using the current dataset to be classified any higher than an Inferred resource until further drilling is completed on the Project with a QA/QC program implemented.

# 12 DATA VERIFICATION

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## 12.1 SITE VISIT

Mr. McCracken visited the Property between June 28 and 29, 2017. Mr. McCracken was accompanied on the site visit by Mr. Richard Kantor, President for Champion Bear and Mr. Todd Dillabough, Director for Champion Bear.

Mr. McCracken examined the Project setting, numerous drill collar sites, and compared the located to the information provide in the drill logs and digital database. No errors were observed.

Mr. McCracken reviewed the core from seven drillholes (PF04-107, PF05-112, PF05-115, PF05-116, PF06-121, PF06-124 and PF07-125) and compared the core to the drill logs. Six of the holes reviewed (2004 to 2006 series) cover a strike length distance of 1,080 m through the central portion of the deposit model that has an interpreted strike length of over 3,000 m. The purpose of the review was to:

- Compare the drill core to the drill log to determine if the logs match observation in the core.
- Determine if the logging procedures described in the internal reports were followed.
- Allow the QP to understand the geology, alteration, structure and mineralization of the deposit.

The QP did not identify any discrepancies between the drill core observed and the drill logs.

The QP inspected the core stacks containing the drillholes from 1994 to 1997. The condition for the wooden boxes did not allow the QP to move boxes without causing damage.

The conditions of the samples pulps stored in locked shipping containers were examined. The QP examined the condition of the pulp storage boxes which are made of cardboard. The examination looked for broken or crushed boxes and the legibility of the labels on the boxes. No boxes were broken and all boxes has labels. The QP randomly opened one box on the top of each stack to observe the condition of the pulp packet made of kraft paper bags. The examination looked for broken or leaking bags, the legibility of the labels on the bags, and for matching sample numbers on the bags and on the box label. No discrepancies were observed.

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## 12.2 INDEPENDENT SAMPLING

The QP did not collect any independent samples from drillcore or channel samples. Collecting quarter core from a high nugget gold project will tend to give skewed results.

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## 12.3 DATABASE VALIDATION

The QP validated 20% of the completed digital database against the drill logs and assay certificates. The drillholes were randomly selected from the digital database. The drill logs and assay certificates for the selected holes were recovered from the archives. The digital data for the collar, survey, geology logs, and assay results were compared. Of the data reviewed, less than 1% error rate was observed. The type of errors encountered included:

- Minor gaps (less than 0.5m) in the from – to intervals for the lithology and assay data. This type of error is typically the result of data entry transposition of numbers.

- Missing “-“ on dip measurements in the survey file.
- End of hole depth in header does not match lithology or assay data.

The drill logs and assay certificates are deemed the correct information. Errors identified were noted and then corrected in the database.

The database was imported into Surpac™ mining software. A validation routine was run in the software to check to overlapping intervals and sample gaps.

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## 12.4 QP'S OPINION

The QP believes that the sample database provided by Champion Bear and validated by the QP is suitable to support future resource estimation.

# 13 MINERAL PROCESSING AND METALLURGICAL TESTING

No metallurgical test work has been completed on the Project.

# 14 MINERAL RESOURCE ESTIMATE

No mineral resource estimation exists on the Project.

# 15 ADJACENT PROPERTIES

There are no immediately adjacent properties to the Property.

Treasury Metal's Goliath Project is located approximately 35 km to the east. The Goliath Project is at the advanced exploration stage. Treasury Metals is advancing through the Canadian permitting process to begin production at its open-pit gold mine and up to 2,500 tpd processing facility in the near future. ([www.treasuremetals.com](http://www.treasuremetals.com)). Table 15.1 summarizes the mineral resource.

**Table 15.1 Treasury Metals Mineral Resource Statement (CSA Global, 2017)**

Category	Cutoff Grades (g/t AuEq)	Tonnes	Au (g/t)	Ag (g/t)	Au koz	Ag koz
Measured	0.35	1,015,000	1.90	7.8	62	256
Indicated	0.35	17,174,000	1.22	5.2	676	2,869
Inferred	0.35	1,351,000	0.99	4.3	43	186

The QP has been unable to verify the information and that the information is not necessarily indicative of the mineralization on the property that is the subject of the technical report

# 16 OTHER RELEVANT DATA AND INFORMATION

There is no other relevant data or information on the Project.

# 17 INTERPRETATION AND CONCLUSIONS

The conclusions for the Project are summarized below.

- The Property is currently held 100% by Champion Bear.
- The Project mineralization style does not seem to conform to the classic orogenic model and as such, can be classified as a hybrid deposit-type model.
- There are eight lithological domains on the Project.
- There is a good understanding of the regional and local geology to support the interpretation of the mineralized zones on the Project.
- Mineralization is currently defined in four domains; a sheared schist hosts the majority of the mineralization and is subdivided into a high-grade domain and a low-grade domain.
- Sampling procedures, sample preparation, and assay protocols conducted by Champion Bear were conducted with best practices at the time.
- Drilling and sampling procedures, sample preparation, and assay protocols conducted by Champion Bear were conducted in accordance with accepted practices at the time.
- Verification of the downhole surveys, assays, core, and drillhole logs indicates the data supplied by Champion Bear is reliable.
- Champion Bear did not conduct an independent QA/QC program apart from the internal lab program.
- The geological understanding is sufficient to support future resource estimation.

# 18 RECOMMENDATIONS

It is the QP's opinion that additional exploration expenditures are warranted. Two separate exploration programs are proposed. Phase 2 is dependent on the results of Phase 1 and should be completed or adjusted upon the completion of Phase 1.

## 18.1 PHASE 1

Phase 1 is designed primarily to delineate the mineralization at the Project by testing the strike and dip extension of the mineral zone as well as preserving the existing drillcore. This will involve:

- Diamond drilling to increase the evaluated strike length from the current 400 m by infilling data gaps.
- Extend the strike length to both the east and the west.
- Drill at depth to increase the sample density below 200 m down to 700 m.
- Split and sample historical core containing the quartz sericite schist.

Drillhole spacing should continue at approximately 50 m along section and 50 m to 75 m vertically on section in order to support a potential Inferred resource in the future.

Table 18.1 summarizes the exploration program proposed for Phase 1.

**Table 18.1 Plomp Farm Phase 1 Exploration Budget**

Activity	Description	Cost (CAN\$)
<b>Core protection</b>	Acquire new core boxes	20,000
	Re-box deteriorated core boxes	10,000
<b>Unsplit QSS core</b>	Split 1,000 metres	4,000
	Log and sample core	3,000
	Assay core	2,000
<b>Wedge Drilling</b>	Drill 1,000 metres 17 Wedge holes	125,000
	Log and sample core	15,000
	Assay core	20,000
<b>New Drilling</b>	Drill 10 holes to 350m (3,500 metres)	375,000
	Log and sample core	15,000
	Assay core	15,000
<b>Technical Report 2</b>	Update NI 43-101 report	25,000
<b>Phase 1 Total</b>		<b>\$ 629,000</b>

## 18.2 PHASE 2

If Phase 1 is successful at further delineating a mineral zone along strike and / or at depth, Phase 2 programs should be initiated. Phase 2 is designed to further delineate the Project at depth and along strike.

Table 18.2 summarizes the Plomp Farm Phase 2 exploration budget.

**Table 18.2 Plomp Farm Phase 2 Exploration Budget**

Activity	Description	Cost (CAN\$)
<b>Drilling Deeper</b>	Drill 5,000 meters deep holes	875,000
	Log and sample core	20,000
	Assay core	25,000
<b>Technical Report 3</b>	Update NI 43-101 report	25,000
<b>Phase 2 Total</b>		<b>\$ 945,000</b>

## 18.3 OTHER RECOMMENDATIONS

The following recommendations are to assist in moving the Project forward.

- Rehabilitate the old core rack in order to preserve the historic drillcore.
- For future drilling programs, collect specific gravity measurement for the various rock types and alteration styles. Approximately 4 to 5% of the database should have a specific gravity measurement. This will allow for a more accurate calculation of the tonnage in any future resource estimate.
- For future drilling programs, initiate a QA/QC program that meets current standards.

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# 20 CERTIFICATE OF QUALIFIED PERSON

Todd McCracken, P.Geo.

I, Todd McCracken, P.Geo., of Sudbury, Ontario do hereby certify:

- I am a Manager of Mining with WSP Canada Inc. with a business address at 93 Cedar Street, Suite 300, Sudbury, Ontario P3E 1A7.
- This certificate applies to the technical report entitled *Plomp Farm Technical Report, Aubrey Township, Ontario* (the “Technical Report”) with an effective date of November 20, 2017, and a re-issue date of May 9, 2019.
- I am a graduate of the University of Waterloo, B.Sc. (Honours) Applied Earth Sciences, 1992. I am a member in good standing of Association of Professional Geoscientists on Ontario (APGO) 0631. My relevant experience includes 26 years of experience in exploration and operations, including working in shear-hosted deposits and resource estimations. I am a “Qualified Person” for the purposes of National Instrument 43-101 (the “Instrument”).
- My most recent personal inspection of the Property was June 28 and 29, 2017, inclusive.
- I am responsible for all sections of the Technical Report.
- I am independent of Champion Bear Resources Ltd.as defined by Section 1.5 of the Instrument.
- I have no prior involvement with the Property that is the subject of the Technical Report.
- I have read the Instrument and the sections of the Technical Report that I am responsible for have been prepared in compliance with the Instrument.
- As of the date of this certificate, to the best of my knowledge, information, and belief, the sections of the Technical Report that I am responsible for contain all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

Signed and dated this 9<sup>th</sup> day of May 2019 at Sudbury, Ontario.

*Original document signed and stamped  
by Todd McCracken, P.Geo.*

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Todd McCracken, P.Geo.  
Manager - Mining  
WSP Canada Inc.

# A DRILLHOLE COLLARS





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APPENDIX A  
DRILLHOLE COLLARS

hole_id	y	x	z	max_depth	azimuth	dip
PF-01	5513420	490888	374	242.8	360	-45
PF-02	5513290	491078	371	245	360	-45
PF-03	5513234	491194	373	186	360	-45
PF-04	5513104	491064	373	285	359	-45
PF-05	5512903	491057	373	507	1	-47
PF-06	5512634	491187	373	162	360	-45
PF-07	5512673	492177	370	150	360	-45
PF-08	5513298	491998	371	249	15	-45
PF-09	5513260	491025	371	150	360	-45
PF-10	5513299	491028	370	147.2	360	-70
PF-11	5513201	490973	373	147	358	-45
PF-12	5513200	490974	373	252	1	-76
PF-13	5513219	490888	370	159	360	-45
PF-14	5513548	492189	371	255	360	-45
PF-15	5513297	492388	371	207	360	-45
PF-16	5513273	491788	371	219	360	-45
PF-17	5513299	491588	371	174	360	-45
PF-18	5513299	491388	371	132	360	-45
PF-19	5513298	491388	371	135	360	-68
PF-20	5513249	491588	371	129	360	-43
PF-21	5513205	490838	370	180	360	-45
PF-22	5513204	490838	370	225	360	-65
PF-23	5513150	490738	371	228	360	-45
PF-24	5513149	490738	371	248	360	-60
PF-25	5513180	490798	371	222	350	-45
PF-26	5513017	490873	369	396	2	-60
PF-27	5513100	490988	372	370.2	360	-60
PF-28	5513077	490779	372	363	355	-65
PF-29	5513077	490779	372	477	355	-76
PF-30	5513016	490873	369	450	358	-74
PF-31	5513050	490988	371	549	360	-70
PF-32	5513062	490677	369	443	360	-56
PF-33	5513061	490677	369	357	360	-66
PF-34	5513061	490677	369	474.5	360	-75
PF-35	5513054	490677	369	329.5	350	-52
PF-36	5513054	490677	369	498	320	-70
PF-37	5513053	490677	369	537	325	-77
PF-38	5512913	490373	369	552	330	-65
PF-39	5512920	490388	369	552	335	-70
PF-40	5512941	490094	374	531	360	-50
PF-41	5512941	490094	374	519	360	-65
PF-42	5513298	491988	371	126	360	-60
PF-43	5513297	491988	371	258	360	-85
PF-44	5513285	491888	371	240	360	-80
PF-45	5513298	492088	371	198	360	-80
PF-46	5513298	492188	371	258	360	-80
PF-47	5513298	492288	371	267	360	-80
PF-48	5513296	492388	371	303	360	-80
PF-50	5513372	490682	370	294	360	-55
PF-51	5513500	491139	371	351	360	-55
PF-52	5513524	491289	371	204	360	-55
PF-53	5513400	491138	372	303	360	-55



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APPENDIX A  
DRILLHOLE COLLARS

hole_id	y	x	z	max_depth	azimuth	dip
PF-54	5513285	491088	371	201	360	-65
PF-55	5513037	491182	371	441	5	-58
PF-56	5512941	490094	374	648	360	-75
PF-57	5512941	490094	374	516	30	-65
PF-58	5513036	491181	371	537	5	-70
PF-59	5513098	492188	372	477	360	-65
PF-60	5513097	492188	372	615	360	-70
PF-61	5513098	492088	372	528	360	-65
PF-62	5512940	490888	369	654	360	-66
PF-63	5512939	490888	369	930	360	-75
PF-64	5513097	492088	372	510	360	-65
PF-65	5513049	491588	371	414	360	-50
PF-66	5512935	490847	368	675	350	-70
PF-67	5513048	491588	371	573	360	-75
PF-68	5512902	491058	378	593	4	-62
PF-69	5512902	491058	373	648	3	-70
PF-70	5513019	490821	370	396	358	-55
PF-71	5513018	490821	370	465	353	-64
PF-72	5513018	490821	370	459	360	-70
PF-73	5512961	491227	371	234	256	-72
PF-74	5512961	491227	371	792	256	-77
PF-75	5513023	490365	369	557	352	-59
PF-76	5513022	490365	369	588	351	-77
PF-77	5513022	491438	371	786	340	-75
PF-78	5513200	492945	371	360	350	-55
PF-79	5513139	490892	373	341	360	-68
PF-80	5513024	491438	371	591	328	-65
PF-81	5513023	491438	371	678	335	-70
PF-82	5512911	490374	369	573	360	-56
PF-83	5512912	490373	369	618	360	-48
PF-84	5512912	490374	369	517.3	355	-64
PF-85	5512911	490373	369	591	21	-60
PF04-100	5513055	490102	373	183.01	358	-45
PF04-101	5513005	490106	374	549.01	355	-50
PF04-102	5512979	490107	374	450.01	175	-53
PF04-103	5513035	490192	372	243.01	355	-45
PF04-104	5513033	490356	369	286.51	360	-45
PF04-105	5513081	490678	369	297.01	358	-45
PF04-106	5513415	490667	373	252.01	360	-45
PF04-107	5513535	490593	378	540.01	180	-55
PF05-110	5513139	490943	373	230.21	360	-55
PF05-111	5513138	490892	373	254.61	360	-55
PF05-112	5513115	490793	372	276.11	360	-60
PF05-113	5512938	490847	368	550	258	-70
PF05-114	5512938	490644	367	427.01	360	-50
PF05-115	5512923	490430	368	477.51	13	-60
PF05-116	5513139	490094	371	129.71	360	-50
PF05-117	5513071	489968	375	160.21	360	-50
PF05-118	5512986	489749	378	300.51	360	-50
PF06-119	5512796	490194	375	743.51	360	-70
PF06-120	5512772	489861	384	548.01	358	-67
PF06-121	5512762	489758	386	702.11	360	-65



hole_id	y	x	z	max_depth	azimuth	dip
PF06-122	5512703	490193	375	1034.61	355	-80
PF06-123	5512775	489657	391	852.01	360	-78
PF06-124	5512699	490093	377	948.51	360	-80
PF07-125	5513021	488075	383	449.01	180	-88
PF07-126	5512734	488665	379	248.01	360	-53
PFE07-01	5514842	501390	373	248.01	360	-50
PFE07-02	5514814	500491	390	260.01	360	-49
PFE07-03	5514836	500479	390	145.01	360	-50
TA-03	5512860	489650	381	376.01	360	-45
TAE-01	5513007	489554	382	111.01	359	-47
TAE-02	5512986	489650	379	134.2	360	-45

## **ABOUT US**

WSP is one of the world's leading professional services consulting firms. We are dedicated to our local communities and propelled by international brainpower. We are technical experts and strategic advisors including engineers, technicians, scientists, planners, surveyors and environmental specialists, as well as other design, program and construction management professionals. We design lasting solutions in the Buildings, Transportation, Infrastructure, Oil & Gas, Environment, Geomatics, Mining, Power and Industrial sectors as well as project delivery and strategic consulting services. With over 8,000 talented people across Canada and 42,000 people globally we engineer projects that will help societies grow for generations to come.

### **HEAD OFFICE**

WSP GLOBAL INC.  
1600 RENÉ-LÉVESQUE BLVD WEST, FLOOR 16  
MONTRÉAL, QUÉBEC H3H 1P9

T +1 514-340-0046  
F +1 514-340-1337  
**WSP.COM**

