ASSESSMENT REPORT

HIGHBANK LAKE PROPERTY

BMA 523861, 523862, 524861 and 524862
Northern Ontario, Canada

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1.0 INTRODUCTION

The mining claims that comprise the Highbank Lake Property are located 350 kilometres northwest of the town of Hearst, Ontario, in the Highbank Lake/Attawapiskat River area, and within the National Topographic System (NTS) map area 43D/08 (Figure 1). The mining claims lie within numbered townships BMA 523861, 523862, 524861 and 524862 of the Porcupine Mining Division, District of Cochrane, Ontario.

The Property is accessible only by floatplane and boat, with the Attawapiskat River providing the main waterway. A tent camp previously used by de Beers and now operated by Harry Baxter of Ogoki, Ontario, is located on a peninsula on the west shore of Highbank Lake. The drill sites are only accessible by helicopter in the summer and snow mobile in the winter.

The Highbank Lake Property consists of two non-contiguous claim groups, for which staking originally started in 2001. The Property comprises 169 unpatented mining claim blocs, totalling 2,849 mining claims or units (16 hectares per unit) that cover 45,584 hectares (Appendix 1, Figure 1.1). The mining claims are held 100% by Northern Shield and have not been legally surveyed. All claims are currently in good standing.

The Property is located within the Archaean Sachigo Subprovince of the Superior Structural Province of the Canadian Shield. According to recent subdivisions of the Sachigo Subprovince, the Fishtrap Intrusive Complex (previously known as the Fishtrap Lake Intrusive Complex or FLIC) underlying the Property is located at or near the boundary between the 2.73 to 2.72 Ga Oxford-Stull terrane to the north and the 3.0 Ga North Caribou terrane to the south (Stott and Rayner 2004). However, the subdivisions are based mostly on work carried out on the western portion of the Sachigo Subprovince and since there is very little data available in the area of the Property, this boundary remains highly speculative.

The association between mafic rocks observed in the field and a well-layered stratigraphy delineated by airborne magnetic fabrics suggests that the Fishtrap Intrusive Complex has potential for "reef-style" platinum-group element ("PGE") mineralization similar to the mineralization found in the Bushveld Igneous Complex of South Africa or the Stillwater Complex in Montana, USA. The Bushveld Igneous Complex in South Africa hosts the world's largest deposits of platinum, and comprises a well-layered suite of mafic and ultramafic rocks with PGE typically associated with thin chromite-rich "reefs". Discovery of significant quantities of detrital chromite and chromitite fragments within the Highbank Lake Property supports an exploration model based on Bushveld-style mineralization.

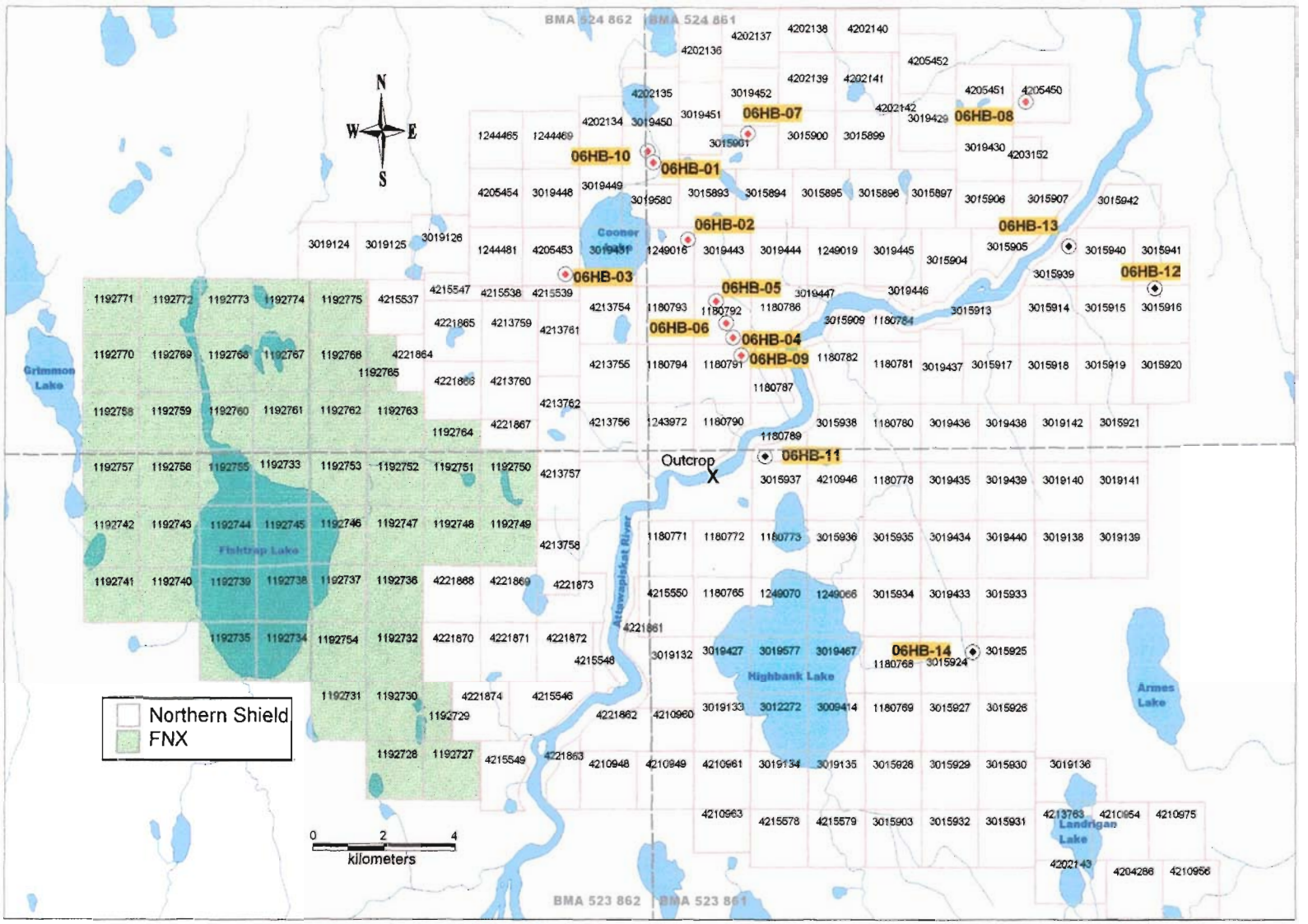


Figure 1.1. Highbank Lake Property location map.

A wide variety of exploration work has been completed at the Highbank Lake Property since 2003 and includes different types of overburden geochemistry, heavy mineral count and chemistry, lithogeochemistry, diamond drilling, airborne and ground geophysical surveying and petrographic study of core and boulder samples, including mineral chemistry by scanning electron microscope (SEM).

Very encouraging results were obtained from a large coverage of MMI® (Mobile Metal Ions) geochemistry on 23 profiles for a total of 75 line kilometres. Significant anomalies in one or many of the elements Pd, Pt, Ni, Cu, Co and Cr were identified and some are consistent along layers defined by the airborne magnetic surveys. Three lines of deep looking IP survey were carried out approximately over MMI® lines in the northwestern portion of the Property, where PGE and other metal anomalies were well defined. A number of chargeability and conductivity anomalies were identified with the survey and were used, in combination with the MMI® results, to define drill targets for the summer 2006 program.

2.0 GEOLOGICAL SETTING

2.1 Regional Geology

The Highbank Lake Property lies within the Sachigo Subprovince of Northwestern Superior Province in Northern Ontario. The Superior Province covers an area of 1,572,000 km^2, which represents 23% of the earth's exposed Archaean crust (Thurston, 1991). The Superior Province is divided into numerous Subprovinces (Figure 2.1), each bounded by linear faults and characterized by differing lithologies, structural/tectonic conditions, ages and metamorphic conditions. These Subprovinces can be classified as one of four types: 1) Volcano-plutonic, consisting of low-grade metamorphic greenstone belts, typically intruded by granitic magmas, and products of multiple deformation events; 2) Metasedimentary, dominated by clastic metasedimentary rocks and displaying low grade metamorphism at the Subprovince boundary and amphibolite granulite facies towards the centres; 3) Gneissic/plutonic, comprised of tonalitic gneiss containing early plutonic and volcanic mafic enclaves, and larger volumes of granitoid plutons, which range from sodic (early) to potassic (late); and, 4) High-grade gneissic Subprovinces, characterized by amphibolite to granulite facies igneous and metasedimentary gneisses intruded by tonalitic, granodioritic and syenitic magmas (Card and Ciesieliski, 1986).

The Sachigo Subprovince represents the northernmost extent of exposed Archaean basement rocks of the Superior Province. It is bounded to the northwest by granitoid and mafic-ultramafic rocks of the Thompson Belt, interpreted to represent a collisional zone formed during the Trans-Hudson Orogen

(1.8 Ga). To the east, the Sachigo is bounded by the Winisk River Fault, which separates the Superior Province from rocks of the Fox River Belt of the Trans-Hudson Orogen, while the southern limit of the Sachigo Subprovince is in contact with the Berens River granite-greenstone Subprovince.

Until recently, much less was known about the Sachigo Subprovince than the more accessible granite-greenstone belts to the south, with most work concentrating on the handful of isolated greenstone belts found enclosed within the granitic and gneissic units (e.g., Bennett and Riley, 1969; Ayres, 1974; Card and Ciesielski, 1986; Thurston et al., 1991). A number of differences can be noted between the greenstone belts of the Sachigo Subprovince and other greenstone belts to the south, including some of the oldest ages for greenstones in the Superior Province and narrower, southeast-trending belts relative to east-trending belts in the southern Superior Province. The Berens River granite-greenstone Subprovince, immediately to the south of the Sachigo Subprovince, is interpreted to represent a deeply eroded arc or micro continental core, while rocks of the Sachigo Subprovince are considered remnants of widespread, early (3.0 Ga) sialic crust (Thurston et al., 1991).

Recent work integrating mapping, geochronology and isotopic studies has outlined important subdivisions of the Sachigo Subprovince (e.g., Skulski et al., 2000; Corkery et al., 2001; Stone, 2005; Stott and Rayner, 2004 and Rayner and Stott, 2005), which are generally defined as the following tectonic terranes: 1) the 3.0 Ga North Caribou Terrane to the south; 2) a juvenile 2.73 to 2.72 Ga Oxford-Stull Terrane in the centre; and, 3) the reworked 3.6 Ga crust of the Northern Superior Superterrane to the north. There is general agreement on these subdivisions although there is still a lot of uncertainty in regards to the exact location of the boundaries, especially on the eastern side where little to no data is available. The Fishtrap Intrusive Complex, which underlies the Property is located at or near the boundary between the Oxford-Stull Terrane to the north and the North Caribou Terrane to the south.

Felsic to Intermediate Intrusive Rocks

Granitic rocks represent the dominant lithology in the Sachigo Subprovince and include, from oldest to youngest: gneissic tonalites; foliated tonalites; a muscovite granodiorite–granite series; and, a diorite-monzonite-granodiorite suite (Thurston et al., 1991).

Gneissic Tonalites

These intrusive rocks are amongst the oldest examples of plutonic rocks (Thurston et al., 1991), and can be divided into melanocratic (>20% amphibole) and leucocratic (<20% amphibole) series, although dominated by the latter. These rocks are heterogeneous, typically cut by several generations of granitic dikes, and may contain mafic inclusions up to kilometre-scale in diameter (Thurston et al., 1991). The origin of these inclusions can be traced back to supracrustal xenoliths

and tectonized mafic dikes. Tonalitic rocks of the Sachigo Subprovince display a general west to northwest strike in their layering. This layering shows divergence around younger intrusive complexes and in the vicinity of shear zones. Contact relationships with greenstone terranes are almost invariably tectonic, while more gradational with other felsic intrusions (Thurston et al., 1991).

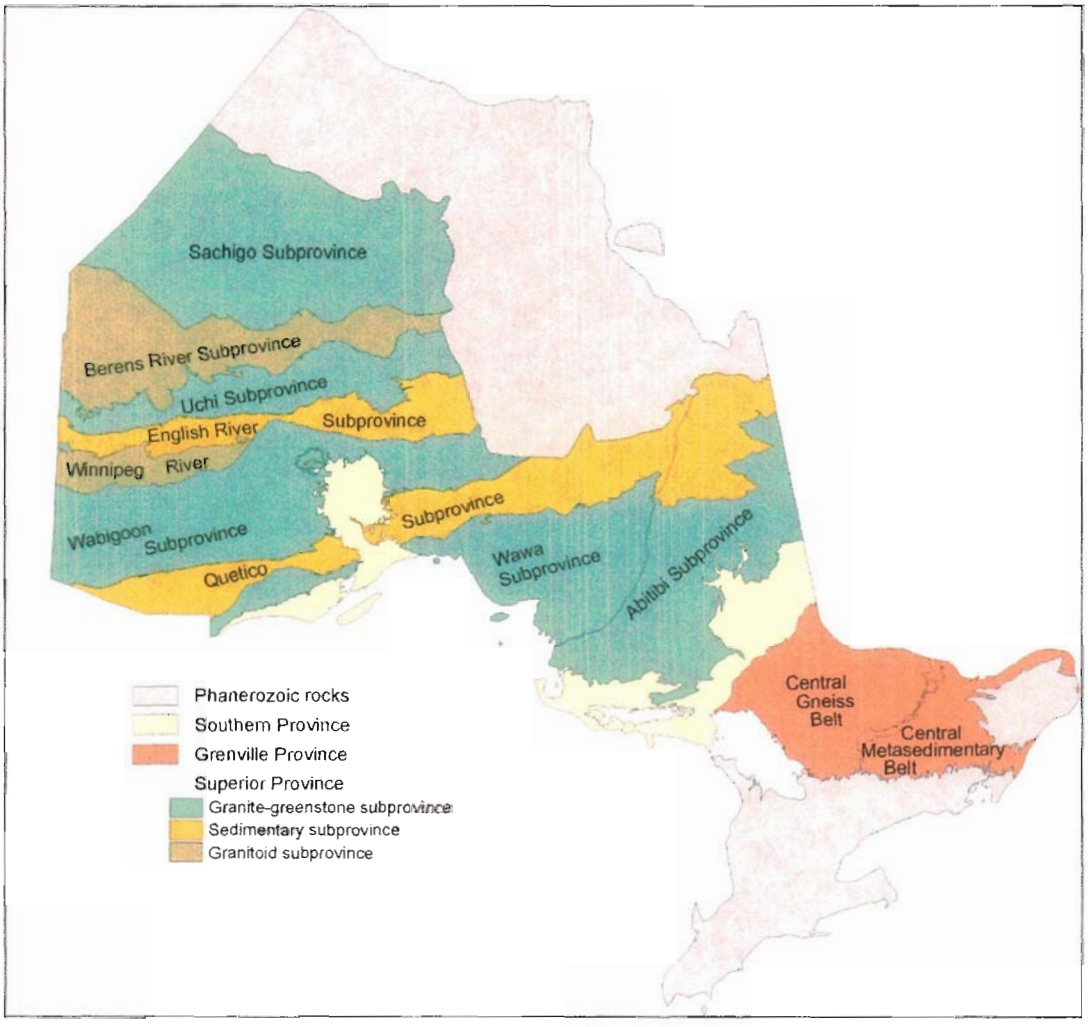


Figure 2.1. The Superior Province of Ontario

Foliated Tonalite

In the Sachigo Subprovince, foliated tonalites include mafic and felsic members, which characteristically form irregular batholiths and stocks at the interface between greenstone terranes and massive tonalite (Stone, 1989; Thurston et al., 1991). Mafic tonalite typically contains less than 20% mafic minerals, which is usually hornblende but more felsic versions are dominated by biotite in their mafic assemblage. Rocks are generally medium- to coarse-grained, and relatively homogeneous, although megacrystic and clotty amphibole are common in hornblende tonalites and granodiorites (Thurston et al., 1991). The intrusions are well foliated, with foliation defined by

oriented lenticles of quartz, plagioclase, biotite and hornblende (Thurston et al., 1991).

Massive Granodiorite-Granite

Within the granodiorite to granite suite, feldspar-megacrystic granodiorite and biotite granodiorite form the two most voluminous lithologies (Thurston et al., 1991). Megacrystic varieties are grey to pink, and contain feldspar megacrysts up to 2 cm in length and generally less than 15% mafic constituents, including possible relict clinopyroxene (Thurston et al., 1991). Magnetite is common in this series and accounts for its high magnetic signature in regional aeromagnetic surveys. Massive biotite-granodiorites are weakly foliated, pale pink in colour, and contain irregular pods of pegmatitic material (Thurston et al., 1991). Mafic minerals, dominated by biotite, typically make up less than 10% of the rock.

Muscovite-Bearing Granite

Members of this suite range from granodiorite to granite, are coarse-grained to pegmatitic, and often contain metasedimentary xenoliths. They include two-mica granites and leucogranites, which are commonly associated with major shear zones in the Sachigo Subprovince. Their young ages (2653 Ma) compared to two-mica granites in the southern Superior Province, smaller sizes and tectonic association suggest that these granites may have formed from melting of metasedimentary units during late block-to-block movement (Thurston et al., 1991).

Diorite-Monzonite-Granodiorite

The diorite-monzonite-granodiorite suite of rocks represents the youngest felsic to intermediate intrusion event in the Sachigo Subprovince. They range between quartz-diorite and quartz-monzonite. Mafic minerals can be abundant (up to 30%) and are typically dominated by hornblende over biotite, with occasional pyroxene (Thurston et al., 1991). Rocks of this suite show a spatial association with mafic intrusive rocks, and usually display a gradational transition to gabbroic compositions. Their mafic mineralogy and inclusion-rich nature suggest that they are mantle derived, similarly to monzodiorite plutons in the southern Superior (Stern et al., 1989).

Mafic Intrusive Rocks

Pre-tectonic mafic intrusive rocks in the Sachigo Subprovince are considered to be synvolcanic by Thurston et al. (1991), and comprise predominantly mafic to ultramafic sills. Post-tectonic magmatism in the northwestern Superior Province includes three diabase dike swarms, including the 2170 Ma Marathon swarm (Fahrig and West, 1986), 1883 Ma Molson Swarm (Heaman et al., 1986) and the 1267 Ma MacKenzie Swarm (LeCheminant and Heaman, 1989).

Big Trout Lake Intrusive Complex

The Big Trout Lake Intrusive Complex is the largest exposed mafic-ultramafic intrusion of the Sachigo

subprovince, and consists of a folded 5,000 m thick sill containing a 500 m thick lower ultramafic sequence of dunite, chromite and chromite-rich layers overlain by homogeneous peridotite. Two batches of tholeiitic magma are indicated in the formation of the sill (Borthwick and Naldrett, 1984).

Landsdowne House Igneous Complex

The Lansdowne House Igneous Complex is well described in two technical reports for Aurora Platinum Corp. (Winter, 2003; Mazur and Osmani, 2002). It occurs in the 2.7 to 2.8 Ga Oxford Lake – Stull Lake Terrane, near the faulted contact with the 2.9 to 3.0 Ga North Caribou Terrane. The complex can be separated into three zones: 1) Ultramafic Basal zone composed of layered peridotite and pyroxenite; 2) Middle zone, composed of cumulate gabbro and minor ultramafic units; and, 3) Upper zone, composed of a sequence of diorite, leucogabbro, anorthosite and magnetite-gabbro. Both sulphide-poor horizons rich in PGE and Cu-Ni disseminated to massive sulphides were encountered in the Middle zone, whereas V-Ti rich zones are described in magnetite-gabbro of the Upper zone.

Fishtrap Intrusive Complex

The Fishtrap Intrusive Complex is situated in the extreme southeast corner of the Sachigo Subprovince, and is partly overlain by Paleozoic sedimentary rocks of the Hudson Platform (Thurston et al., 1991). Prior to this drill program, very little work had been undertaken on the complex, and its definition was based on very limited bedrock exposure. Outcrops consist of gabbroic lithologies in the western section of the complex and anorthosite in the east.

2.2 Property Geology

The Highbank Lake Property was staked to cover an area interpreted from geophysical data to be the eastern continuation of the Fishtrap Intrusive Complex. This intrusive complex, as currently mapped, is identified on provincial geology maps as a 20 km x 10 km ultramafic-mafic intrusion centered on Fishtrap Lake (Figure 2.2). Early mapping of the complex located only two outcrops on the northeast shores of Fishtrap Lake, where the lithology was described as a very coarse-grained (up to 5 x 1 inch crystal sizes) hornblende-gabbro (Thurston and Carter, 1970). A third outcrop, located downstream in the Attawapiskat River just north of Highbank Lake, was described as a dioritic rock consisting of 15-20% quartz, 30% hornblende and dark grey plagioclase feldspar. This body is currently mapped on provincial geology maps as a 10 km diameter diorite intrusion, separate from the Fishtrap Intrusive Complex. In 2000, and prior to any field visit, Northern Shield reinterpreted the magnetic data as a partially over-turned layered intrusion with the "dioritic" rocks in the vicinity of Highbank Lake potentially representing the end stages of fractionation of the ultramafic-mafic magma as seen at Fishtrap Lake. This reinterpretation was largely based on the provincial magnetic maps that showed crude concentric layering of the rocks at Highbank Lake. As is described in more detail further in this

Report, the outcrop previously reported as "dioritic" has now been identified by Northern Shield as magmatic layers of anorthosite and gabbro.

The high resolution airborne magnetic survey completed by Northern Shield in 2003 shows a remarkably well-banded and concentric signature presumed to represent the alternating lithologies of a layered intrusion (Figure 2.3). Three sequences were defined on the basis of the magnetic signatures (Figure 2.3): 1) The Layered Sequence, located on the eastern portion of the intrusion, displays well defined layering reflected in low and high magnetic signatures; 2) The Middle Sequence has a generally low magnetic signature and envelops the Layered Sequence; and, 3) The Lower Sequence has a generally high magnetic signature and forms the western portion of the intrusion.

Palmer (2003) describes the structure of the complex to consist of D2 isoclinal folding of (magmatic) layers with distinct attenuation of limb. Palmer also interprets radial fracturing associated with the extensional regime created by D2 folding. While folding of a layered dike or sill is possible, it is also possible that the curvi-linear banding is the result of an oblique section through a partially overturned, funnel shaped, layered intrusion. The "attenuation of limbs" and "radial fracturing" described by Palmer (2003) are unlikely to have occurred together as the former occurs in a high-strain, highly ductile environment and the latter occurs in a high-strain, brittle regime.

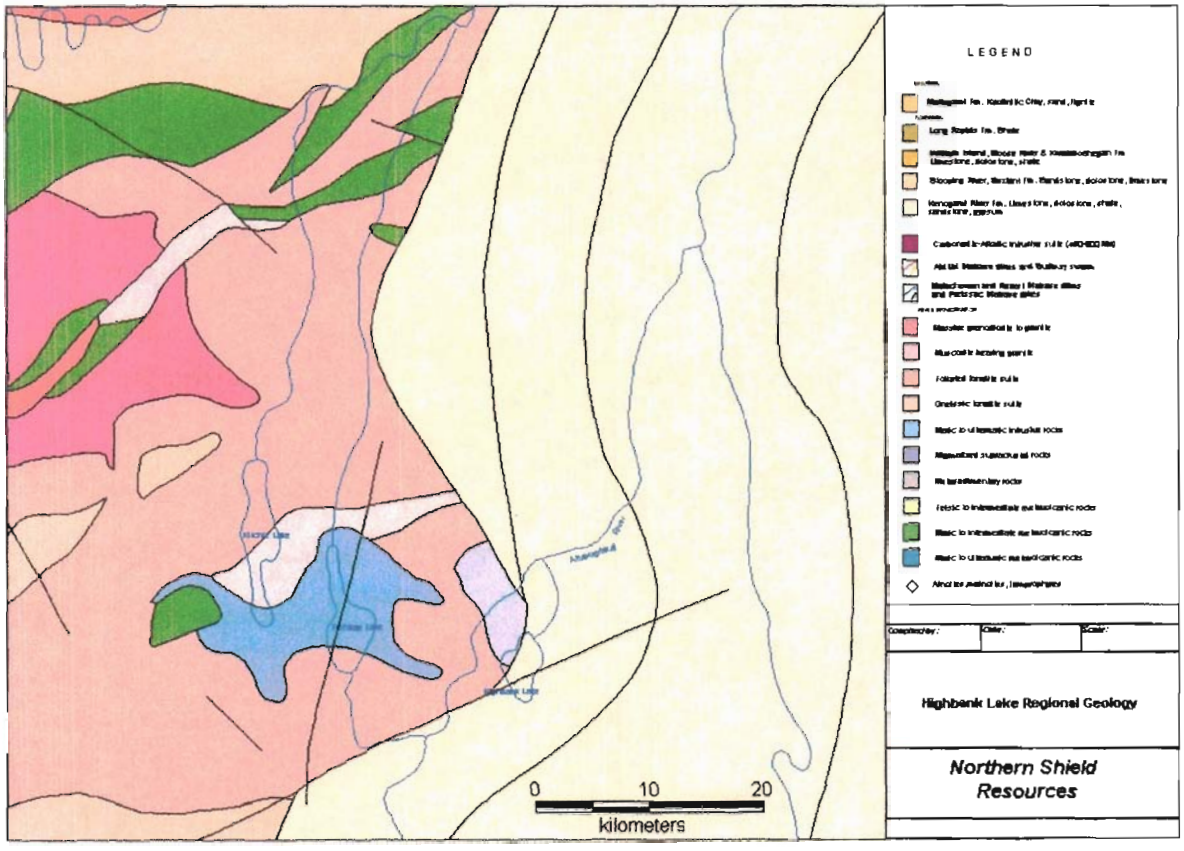


Figure 2.2. Geology of the Highbank Lake Area. Modified from Ontario Geological Survey (1992).

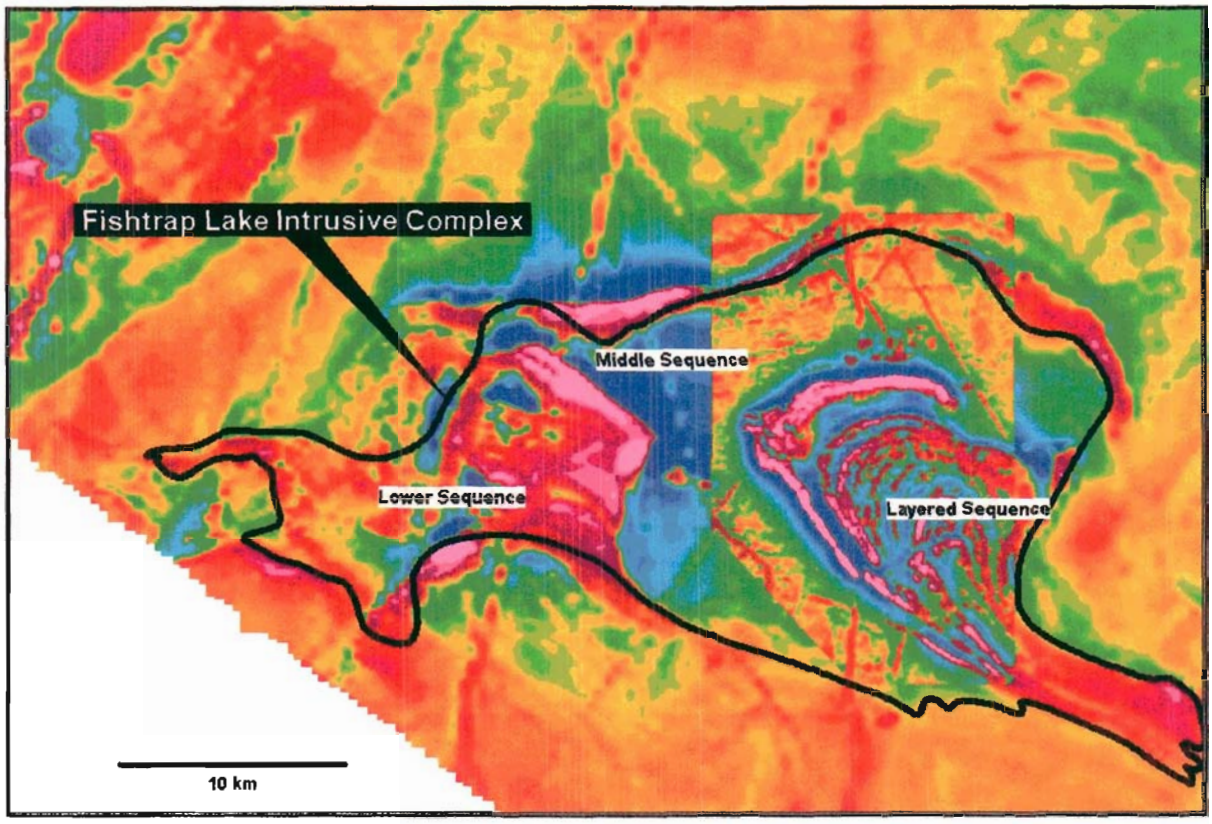


Figure 2.3. Revised outline of the Fishtrap Intrusive Complex as expanded and interpreted from geophysical Survey. Background survey is from Ontario Geological Survey (2003) and high resolution area (centered on the Layered Sequence) is from high resolution airborne magnetic survey by Northern Shield Resources.

The only outcrop within the Highbank Lake Property occurs as an irregular-shaped island on the shore of the Attawapiskat River (Figures 2.4a and b). The outcrop, located at UTM 554080mE and 5802520mN (NAD 83, Zone 16), is approximately 200 m x 75 m in size and although the outcrop has not been mapped in detail, it appears to be composed dominantly of alternating layers of metamorphosed anorthosite and gabbro with volumetrically sub-ordinate ultramafic (amphibolite) layers (Figures 2.4a and b). At this location, layers generally strike north-south and dip 55° east. This is consistent with the dip modelled from ground magnetic survey. A number of narrow, east-west trending shear zones were also observed on the outcrop. These shear zones are generally only a few centimetres in width and the surrounding anorthosites and gabbros are massive, displaying no obvious penetrative foliation.

Figure 2.4a. Magmatically layered gabbros and anorthosites on an outcrop in the Attawapiskat River, north of Highbank Lake. This outcrop was previously mapped as "diorite" by Thurston and Carter (1970).

Figure 2.4b. Possible rhythmic layering on the same outcrop as in Figure 2.4a.

The anorthosites are described as consisting of 90-95% plagioclase up to 1 centimetre in length. Other minerals in the rock include epidote, chlorite and amphibole.

The gabbro is composed of plagioclase and amphibole, with accessory magnetite. Local pyrrhotite was also observed. No visual evidence of penetrative fabric was detected.

Rhythmically layered horizons between one and two metres thick were observed on the outcrop. These horizons are composed of alternating one to two centimetre thick layers of mafic, green-black amphibole-rich and felsic, anorthositic units. The "gneissic banding" reported by Palmer (2003) is reinterpreted to be rhythmic layering resulting from magmatic processes.

Based on the identification of magmatically layered rocks in the Highbank Lake area, the similarity of the gabbros at Highbank and Fishtrap Lake ("hornblende" gabbros), and considering very recent airborne geophysics, the Fishtrap Intrusive Complex is now interpreted to be a layered mafic-ultramafic intrusion that covers an area of approximately 500 km^2. The new interpreted boundaries of the Fishtrap Intrusive Complex are shown on Figure 2.3. The approximately 80 metre section of drill core recovered from diamond drilling carried in 2003 on this sequence shows dominantly medium- to coarse-grained gabbro and sub-ordinate very coarse-grained gabbro, which locally displays cumulate textures. Numerous layers of coarse-grained to pegmatitic anorthosite and minor intervals of pyroxenite are also present. Trace amounts of sulphide, including pyrite, pyrrhotite and chalcopyrite are sparsely distributed throughout the core.

To the north, the Fishtrap Intrusive Complex is in contact with a thin (5 km wide) lens of Archaean metasedimentary rocks, while a small section of mafic metavolcanic rocks is partially enclosed by rocks of the Fishtrap Intrusive Complex at its western limits (Figure 2.2). The extensive tonalitic gneisses, which dominate the area, are hosts to the complex along with minor metasedimentary and metavolcanic rocks. Younger Palaeozoic carbonate rocks occur to the east, and partially cover the eastern section of the Fishtrap Intrusive Complex at Highbank Lake.

Although no exposure of dikes have been observed on the Property, at least two sets of diabase dikes are presumed to occur based on the orientations of linear magnetic features, and the description of known dikes in the surrounding area. These include at least two dikes of the MacKenzie Swarm (1267 Ma; LeCheminant and Heaman, 1989), which trend ~330° and cut through the entire length of the Fishtrap Intrusive Complex. Five other dikes with variable orientation occur in the middle of the Property.

2.3 Quaternary Geology

The dominant ice direction in the area of the Fishtrap Intrusive Complex, as determined from air-photo and satellite image analysis by Northern Shield is approximately 165°. This differs significantly from the area east and west of Highbank Lake, where the glacial fabric trends 230°-250° (Thurston and Carter, 1970). However, striations trending 250-265° have been noted on the outcrop and proximal to the Property. The boundary between these two zones of differing ice direction is sharp. Although detailed quaternary studies have not been carried out in the area, the till is generally composed of pebble-rich clay and is estimated to be between 35 and 60 m thick. An esker is present in the center of the Property directly to the north of Highbank Lake, and locally controls the path of the Attawapiskat River.

3.0 DIAMOND DRILLING PROGRAM

3.1 Introduction

Northern Shield Resources completed a 2048 metre diamond drill program in June and July 2006, a 1330 metre program in October and November 2006 and is currently carrying a 3000 metre program on its Highbank Lake Property in northwestern Ontario. The work reported in this assessment was supervised by Christine Vaillancourt, P.Geo. The programs are funded by Impala Platinum Holdings Limited of South Africa as part of the terms of an earn-in option agreement. The programs were designed to test a number of targets generated through geophysical surveys and surface geochemistry on the Fishtrap Intrusive Complex at Highbank Lake. This report describes diamond-drill holes 06HB-01 to 10 except for 08 for which a report was filed in November 2006. The location of the holes and the orientations, dips and lengths are reported on Figure 3.1 to 3.6. The logs for each hole are detailed in Appendix 2 and the locations of the samples that were assayed are reported in Appendix 3. The sections for the 9 holes are in Appendix 4.

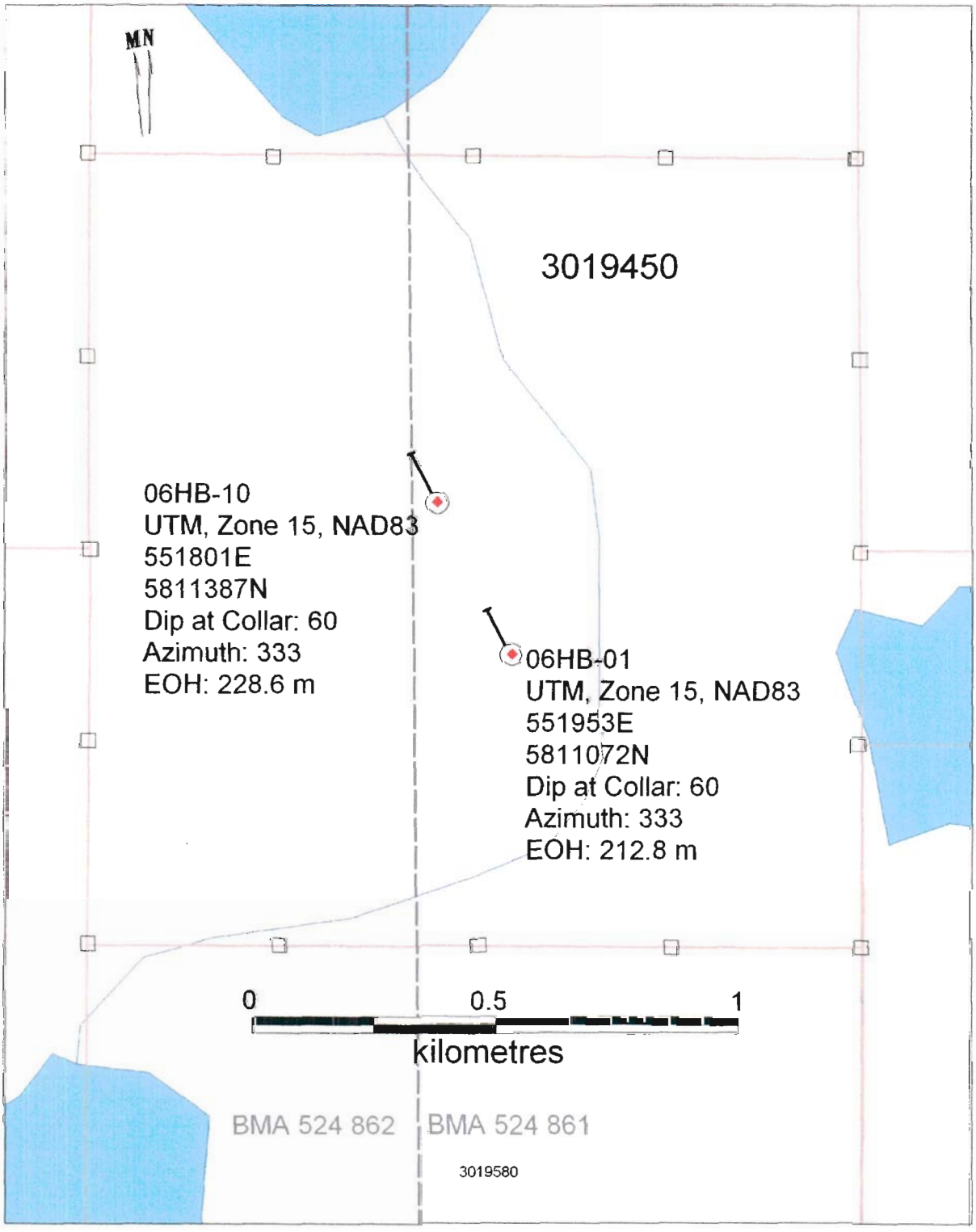


Figure 3.1. Location of diamond-drill hole 06HB-01 and 06HB-10 within claim number 3019450.

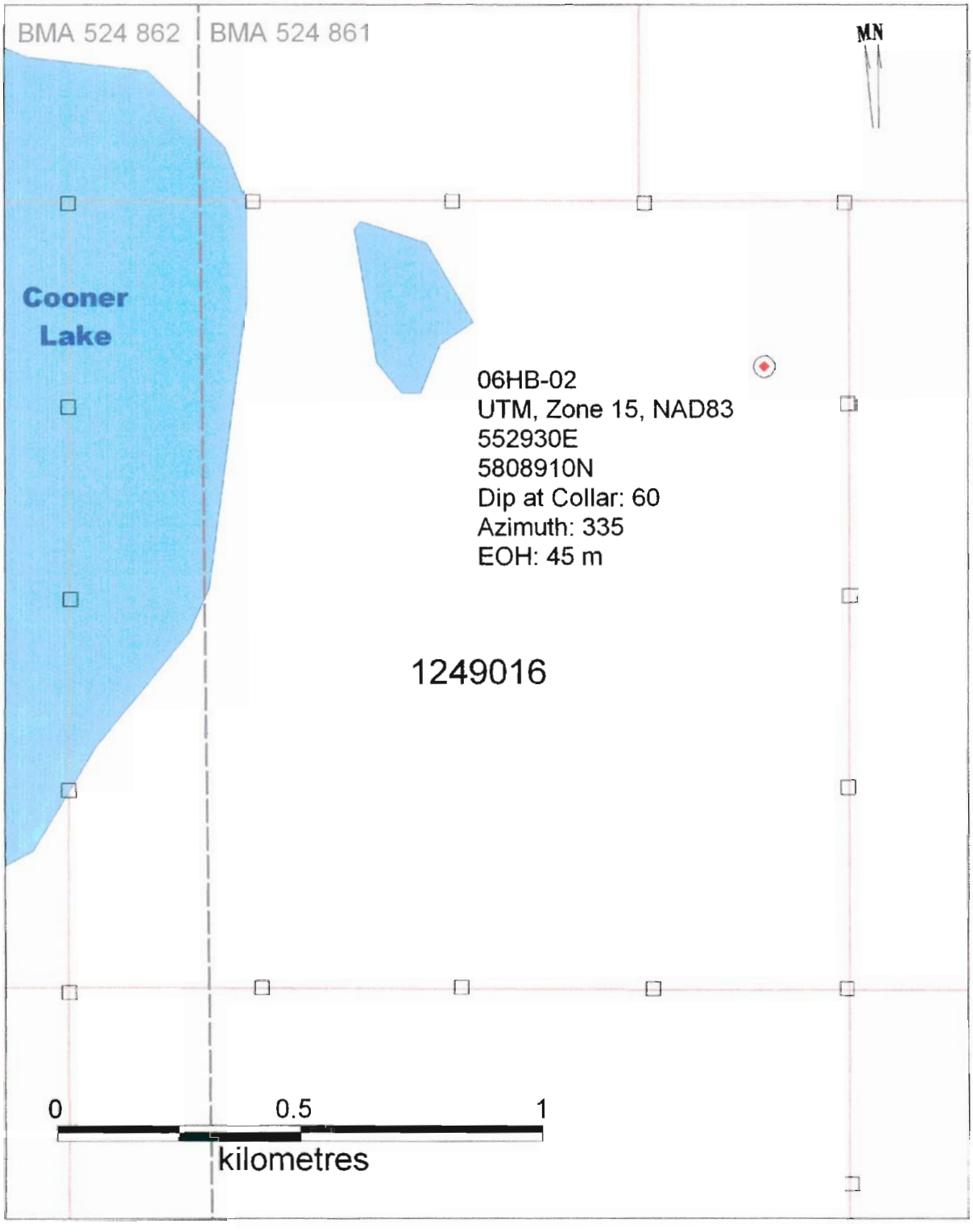


Figure 3.2. Location of diamond-drill hole 06HB-02 within claim number 1249016.

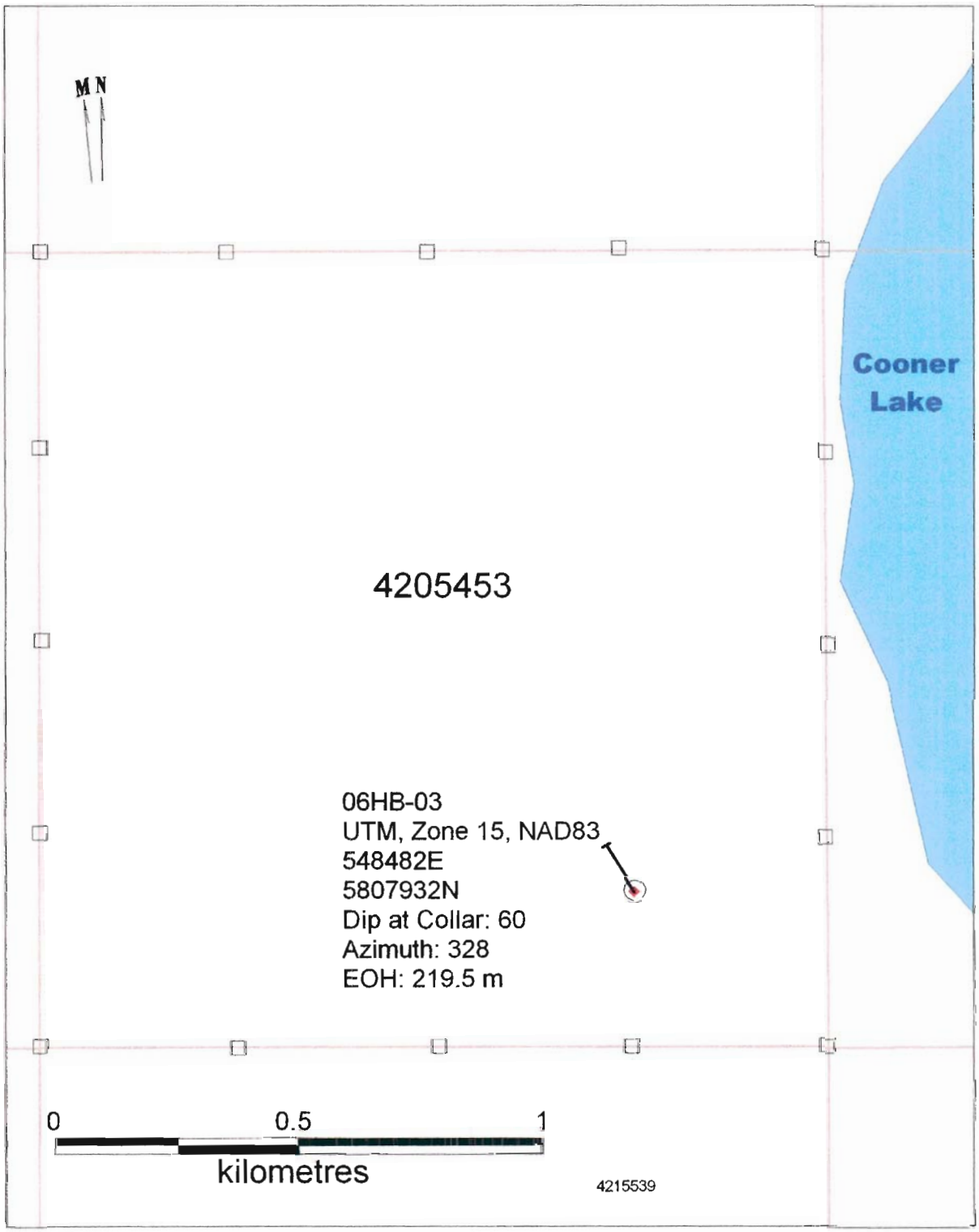


Figure 3.3. Location of diamond-drill hole 06HB-03 within claim number 4205453.

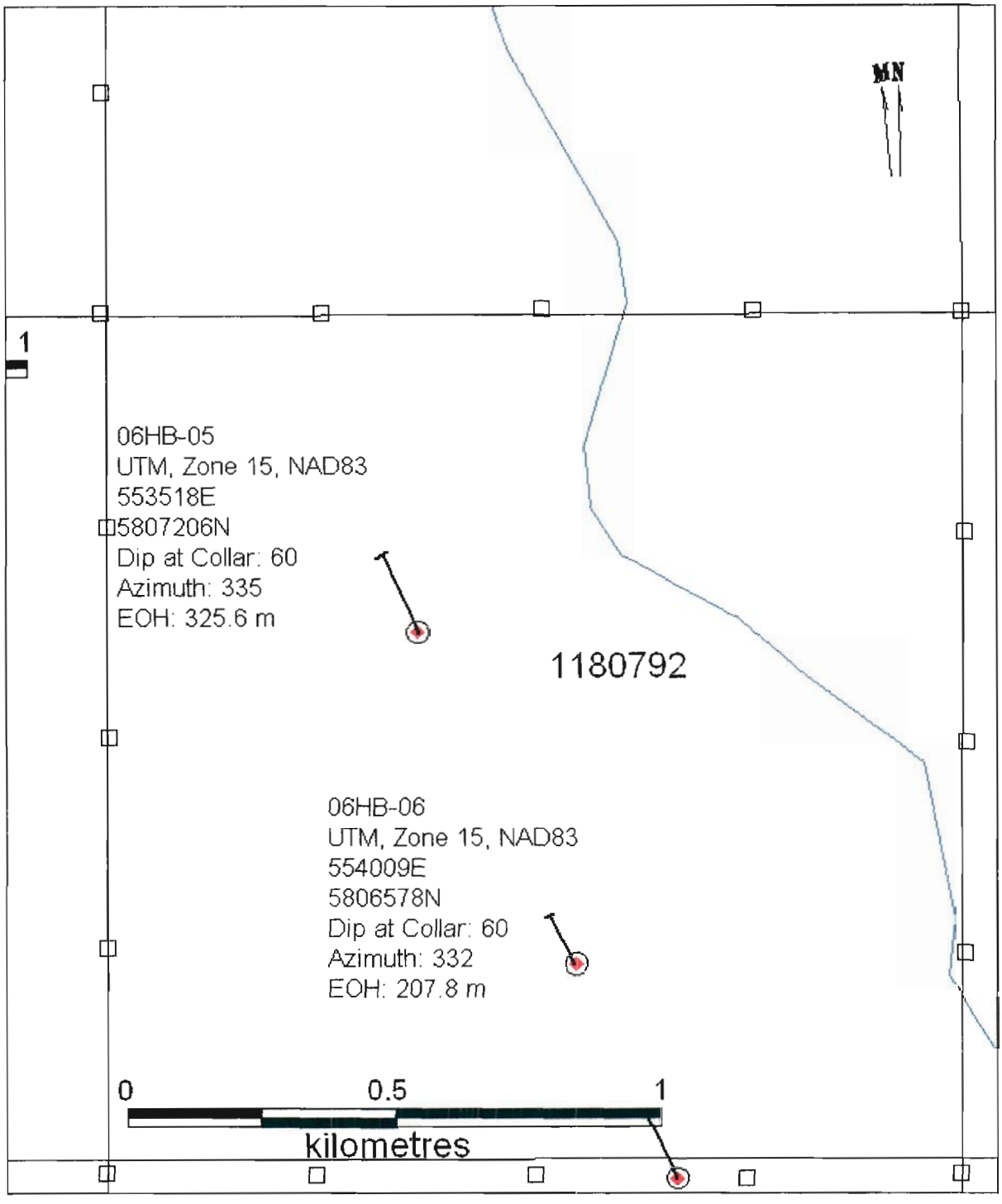


Figure 3.4. Location of diamond-drill hole, 06HB-05 and 06HB-06 within claim number 1180792.

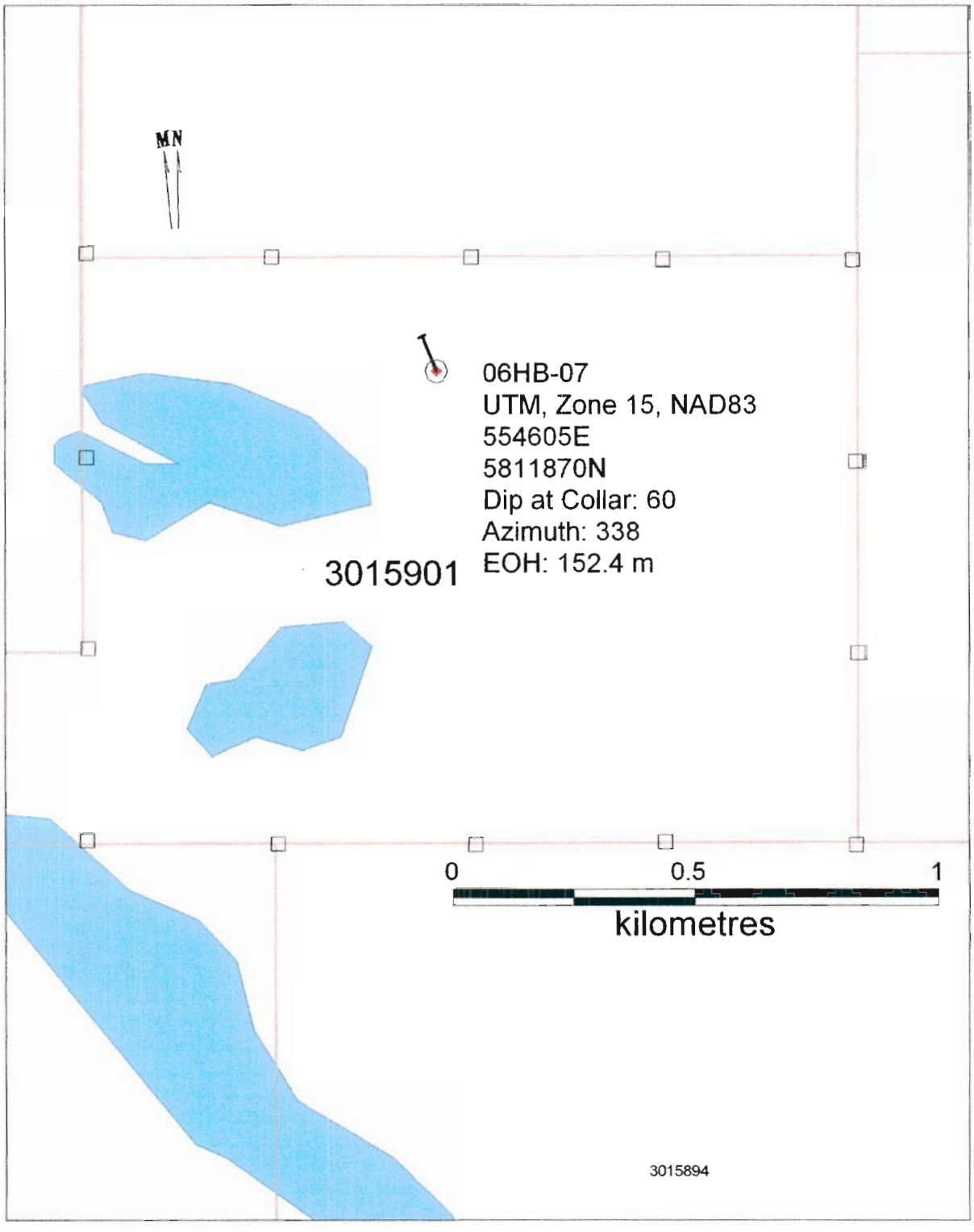


Figure 3.5. Location of diamond-drill hole 06HB-07 within claim number 3015901.

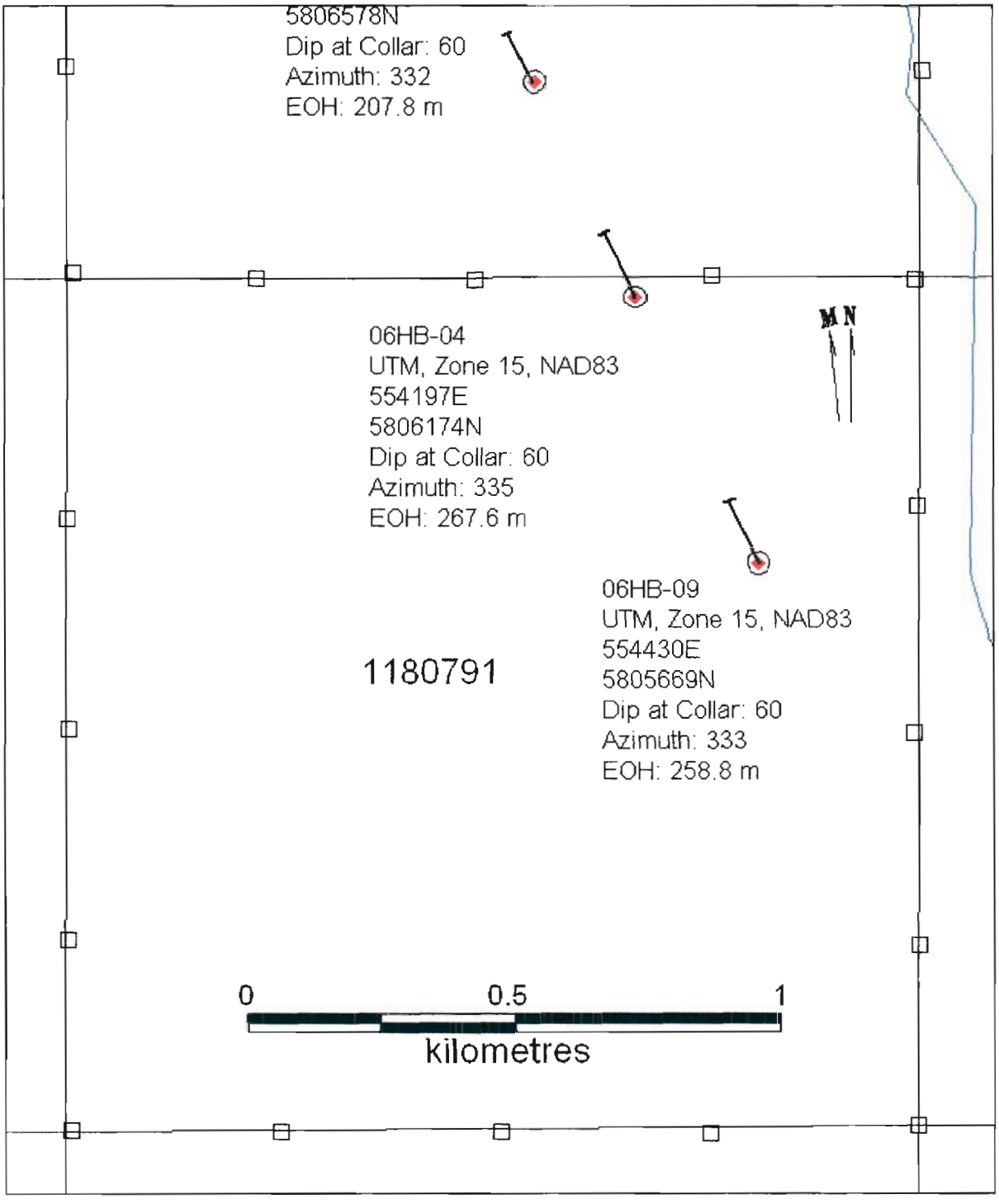


Figure 3.6. Location of diamond drill-hole 06HB-04 and 06HB-09 within claim number 1180791.

3.2 Summer 2006 Diamond-Drilling Program

The summer drill program was designed to test a series of targets based on MMI® anomalies, IP anomalies and geological models. The drill, a JKS Super300, and drill crew were supplied by Cartwright Drilling Inc. of Goose Bay, Labrador.

The drill was flown in a "large-door" Hawker Siddely 748 aircraft from Pickle Lake, Ontario to the airstrip at the Ogoki Reserve, 60 km southeast of Highbank Lake. From Ogoki, the drill was slung in multiple parts to the first drill site by an A350-B2 helicopter of Expedition Helicopters Inc. Slinging was conducted over a two day period, after which the on-site helicopter was down-sized to a Bell 206 Long Ranger. Mobilization commenced on May 31st, 2006 and drilling started on June 2nd, 2006. A stock pile of diesel and jet-fuel was flown in from Hearst Air Service base at Carey Lake, Ontario in an up-grossed Turbo Otter. Throughout the drill program fuel and supplies were brought from Hearst several times a week.

Drilling commenced using BTW gauged rods within BQ casing. Because the drill was struggling to penetrate the thick overburden, NW casing was subsequently brought in and used in conjunction with the BW casing to "telescope" through the overburden. The holes were positioned using a GPS and drilling direction adjusted with a compass. The variation of dip during drilling was measured with acid tests.

DDH 06HB-001			
Collar UTMN:	5,811,072	**Core Angle**	55°-70°
Collar UTME	551,953	**Dip of Layering**	50°-65°
Drilling Azimuth	333°	**Main Lithology**	porphyritic hornblende gabbro (feldspathic pyroxenite)
Dip	-60°	**Main Mineralization**	Ilm+py+po, cpy

This hole was designed to test contact style mineralization at the north end of P11. The target is supported by anomalous MMI® and a strong chargeable IP anomaly corresponding to low resistivity.

Bedrock was reached at a downhole depth of 48 metres. Many occurrences of caving in the hole due to faults and strong alteration zones encountered in bedrock rendered the progression of the hole very slow as rods had to be pulled frequently. Drilling was stopped at a down hole depth of 212 metres because the drill rods became irretrievably stuck in blocky and loose rock. Core-tube, casing shoe, 47 metres of BTW casing and 175 metres of BTW rods were lost.

The dominant rock type intersected in the first portion of the hole was a coarse grained porphyritic

hornblende gabbro with lesser amounts of finer grained gabbro, anorthosite and pyroxenite. Ilmenite is the dominant opaque mineral (locally up to 15%) and often occurs as coarse blebs with a white halo (leucoxene?). Magnetite is also abundant in specific units. Pyrite, pyrrhotite and occasional chalcopyrite are common in the sections richest in ilmenite, which are also devoid of plagioclase megacrysts. Pyrite is also seen in the shear zones in association with silicification or fractures. Large porphyroblasts of garnet becomes prevalent in the lower portion of the hole, and are interpreted to be the result of contact metamorphism from the emplacement of late granitoid batholiths. A felsic porphyry dike approximately 2 metre-wide was intersected and several narrow felsic dykes and shear zones occur near the bottom of the hole.

It is likely that the coarse disseminated ilmenite and sulphides were the cause of the IP chargeability anomaly that this hole targeted and may be the source for the elevated nickel and PGEs seen in the overlying soil samples.

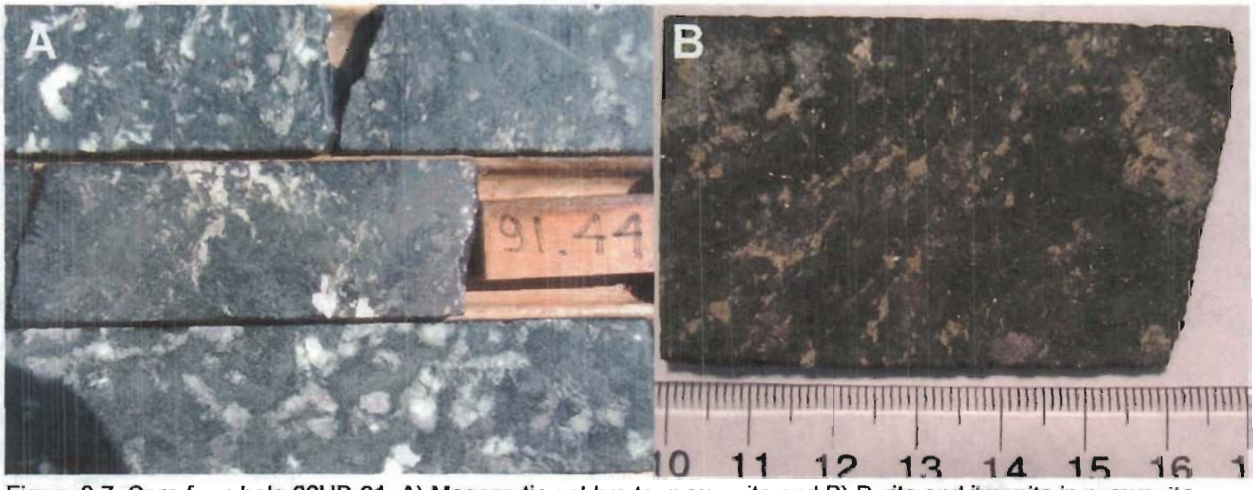


Figure 3.7. Core from hole 06HB-01. A) Megacrytic gabbro to pyroxenite and B) Pyrite and ilmenite in pyroxenite.

DDH 06HB-002			
Collar UTMN:	5,808,909	**Core Angle**	
Collar UTME	552,928	**Dip of Lithology**	
Drilling Azimuth	333°	**Main Lithology**	Hole abandoned in overburden
Dip	-60°	**Main Mineralization**	

This hole was designed to test the Lower Zone MMI anomaly at a point where there is a subtle chargeability anomaly and distinct change is resistivity. The casing became stuck in overburden at a depth of 45 metres. It was decided to move along strike to P14 where overburden was interpreted to be thinner.

DDH 06HB-003			
Collar UTMN:	5,807,934	**Core Angle**	85-90
Collar UTME	549,478	**Dip of Layering**	30-35
Drilling Azimuth	333°	**Main Lithology**	Leucogabbro, melagabbro-hornblende gabbro, anorhosite
Dip	-60°	**Main Mineralization**	

This hole was designed to test the MMI-defined Lower Zone, which displays anomalies in Cr, Cu, and PGE on P14. The hole was drilled to a depth of 219.5 metres.

Lithologies intersected include well layered leuco to melagabbro, with some amphibolite and anorthosite. General grain size is medium but up to very coarse. Layering defined by varying amount of plagioclase in "bands" of ~1 to 10 cm. Foliation is generally weak to absent, except for specific zones of high strain, which are a few centimetres and up to 5 metres. Quartz veins are locally relatively abundant (some have tourmaline), as are zones of very strong sillicification. Other alteration minerals locally present are epidote, chlorite, sericite and pink (potassic?) alteration.

Common lithologies are:

1. Porphyritic gabbro with medium-grained matrix of mostly hornblende and very large plagioclase phenocrysts/glomerocrysts, mostly concentrated in layers of a few centimetres. Some gabbros have remnant texture of large pyroxene oikocrysts (4-5 cm) crystallized around plagioclase cumulates.

2. Anorthosite, typically less than 30 cm wide sections.

3. Pyroxenite, ~10-20 cm intersections, typically more foliated. Some less foliated sections show what seems to be remnant texture of pyroxene mezzo to adcumulate. Actinolite needles are locally present. These ultramafic intersections commonly have traces to 2% disseminated sulphides (py±po±cpy).

4. Medium-grained gabbro, hornblende, local actinolite and/or chlorite and/or biotite.

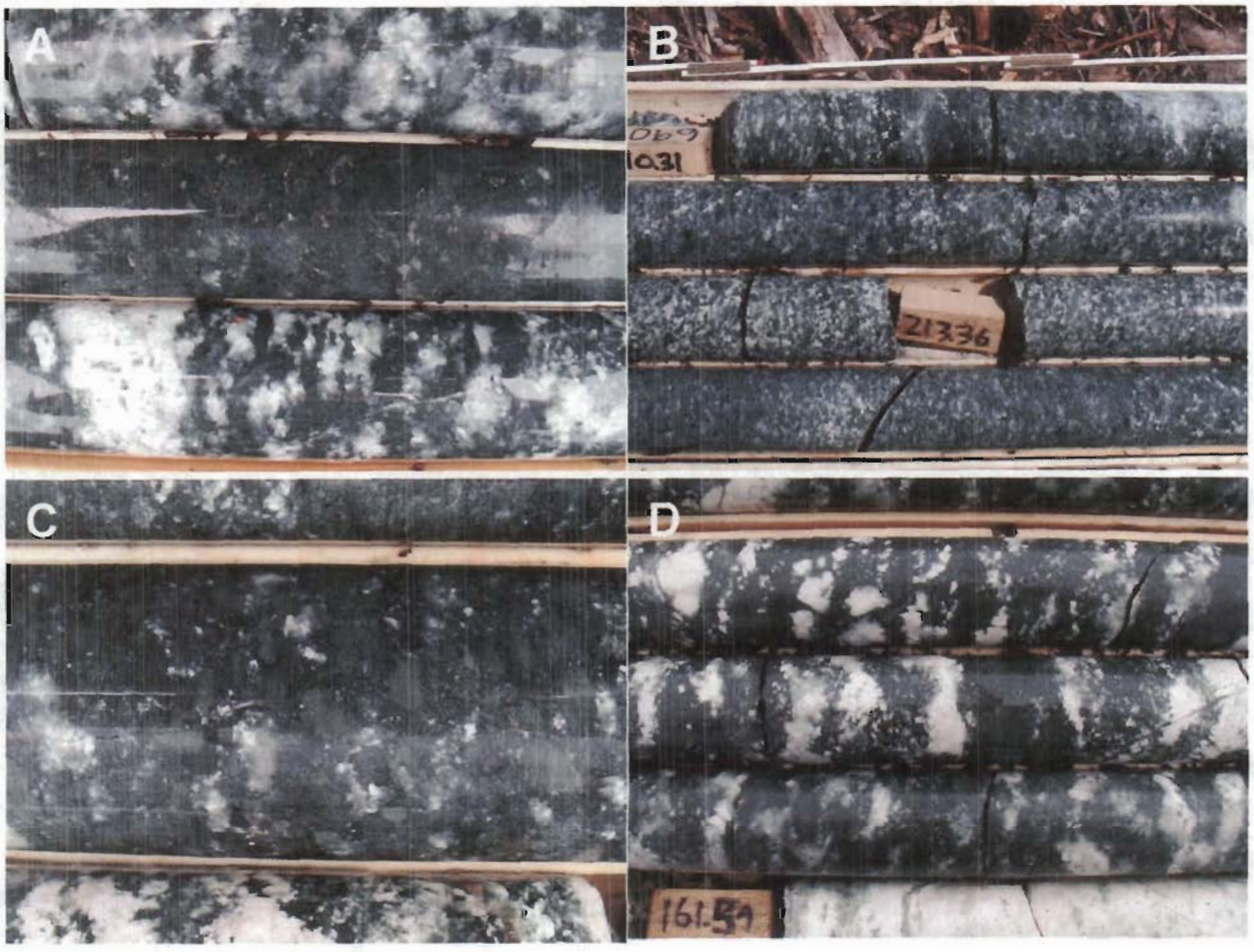


Figure 3.8. Core from hole 06HB-03. A) Pyroxenite with interstitial pyrite, B) Granular gabbro, C) Pyroxenite and D) Banded megacrystic gabbro.

DDH 06HB-004			
Collar UTMN:	5,806,174	**Core Angle**	90, 60°
Collar UTME	554,197	**Dip of Layering**	30° 60°
Drilling Azimuth	335°	**Main Lithology**	Leucogabbro, magnetite-hornblende gabbro
Dip	-60°	**Main Mineralization**	Massive magnetite reefs, diss to blebby py, po, cpy

This hole was designed to investigate the source of high chargeability related to low resistivity obtained on the IP survey, which also corresponds to weak MMI anomalies in Pd and Ni.

Bedrock was reached at a downhole depth of 63.5 metres. Drilling was delayed because of sand washing in the hole and damaging the drill bit. Hole was stopped at a downhole depth of 268 metres because the risks of loosing everything as in hole 06HB-001 became too great.

There are four dominant lithologies in this hole, and contact between them is typically gradual. They are:

1. Hornblende-magnetite gabbro

   This unit is medium-grained and has intergranular texture. It generally contains about 50% plagioclase and variable proportions of magnetite and hornblende. Chlorite may be present locally.

2. Magnetite gabbro

   This unit is medium-grained and composed of plagioclase and magnetite in variable proportions but typically more than 60% plagioclase.

3. Massive magnetite

   This unit is composed of massive magnetite with multiple pale green fractures, possibly very fine chlorite. The widest intersection of this unit is 1.6 metres. Traces of pyrite and chalcopyrite are commonly associated with the massive magnetite intersections.

4. Ultramafic rock

   This unit is generally medium-grained and appears to have taken more deformation than surrounding units. It is composed of variable amounts of chlorite and hornblende and actinolite needles are locally abundant. This unit also commonly hosts disseminated pyrite.

Other units intersected in this hole include medium to very coarse-grained leuco to melagabbro, anorthosite and feldspar-porphyry dikes. Remnant textures of possible oikocrysts were observed in leucogabbros.

Rocks are generally undeformed to weakly foliated but narrow shear zones are present along with strongly veined and altered zones. Different alteration types include quartz and epidote, rusty orange – probably potassic alteration and chloritic alteration with accessory pyrite.

Pyrite and chalcopyrite are present from traces to 1-2% and mostly associated with the massive magnetite or ultramafic sections. They are also found in variable amount and grain size in quartz veins.

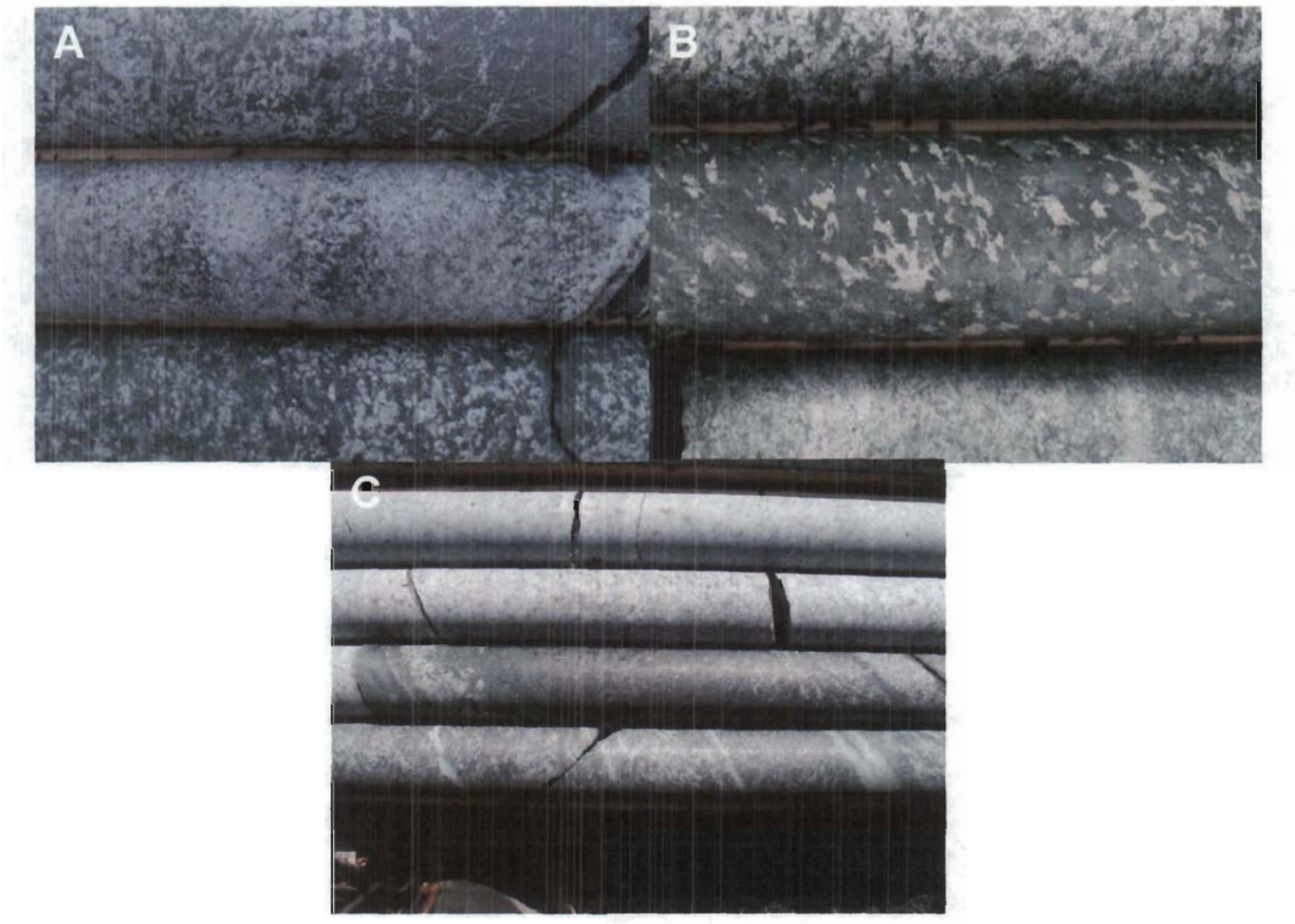


Figure 3.9. Core from hole 06HB-04. A) Remnant pyroxene oikocrysts, B) Cumulate texture in pyroxenite and C) Massive magnetite "reef" and magnetite-gabbro

DDH 06HB-005			
Collar UTMN:	5,807,204	**Core Angle**	50-60, 75
Collar UTME	553,717	**Dip of Layering**	
Drilling Azimuth	333°	**Main Lithology**	Gabbro
Dip	-60°	**Main Mineralization**	None, diss. py in pyroxenite

This hole was designed to test a MMI-defined horizon (the HB1 Zone), which intersects Pd anomalies on several MMI profiles as well as some local anomalies in Pt, Ni and Co. A break in resistivity on the IP survey suggests a sharp lithological change, which was thought could represent a chromitite horizon or other ultramafic layer.

Bedrock was reached at a down hole depth of 64 metres. Progression of the hole was reasonable compared to previous holes but encountered two small zones of fault gauge, which resulted in the rods getting stuck and having to be pulled back. Drilling was stopped at a down hole depth of approximately 160 metres for a two week break. The hole was stopped at a depth of 326 metres.

The dominant lithology intersected is coarse- to medium-grained gabbro, which locally displays plagioclase and/or pyroxene cumulate textures. The grain size variation from coarse to medium and compositional change from more mafic to more felsic are very progressive, as no real contacts were observed. Small sections of anorthositic rock containing less than 5% mafic minerals and sections of pyroxenite, now composed of mostly of hornblende with accessory actinolite, biotite and chlorite were also intersected. All lithologies in this hole are generally only weakly foliated but narrow shear zones are present. The more mafic lithologies are typically more foliated. Only traces of pyrite were observed locally.

Occasional coarse blebs of pyrite and chalcopyrite were observed in this hole. Sulphide veinlets, most commonly cutting anorthositic units are also present.

None of the lithologies encountered in this hole appears to explain the MMI anomalies or the break in the resistivity profile.

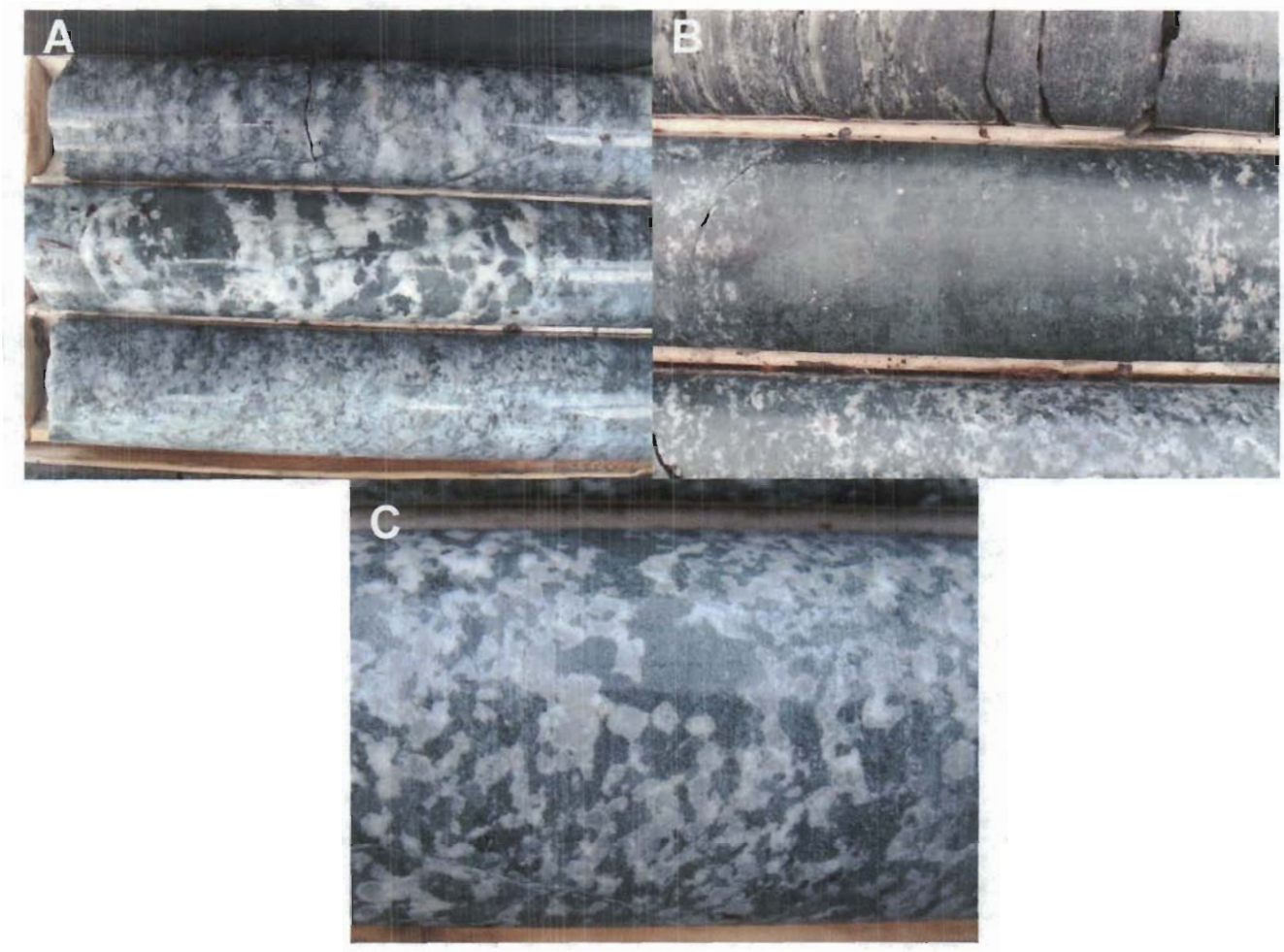


Figure 3.10. Core from hole 06HB-05. A) Pegmatitic gabbro, B) Disseminated pyrite in pyroxenite layer and C) Plagioclase-pyroxene cumulate

DDH 06HB-006			
Collar UTMN:	5806578	**Core Angle**	85
Collar UTME	554009	**Dip of Layering**	
Drilling Azimuth	333°	**Main Lithology**	Mela to leucogabbro
Dip	-60°	**Main Mineralization**	Diss. py, py+moly in quartz vein

The location for this hole was selected to investigate the interpreted unconformity and the source for the MMI anomalies previously referred to HB1 and HB2 Zones.

Bedrock was reached at 53.8 metres, with less difficulty than previous holes because from this point on, overburden was drilled by telescoping NW and BW casing. Drilling was stopped at 208 metres.

Leuco to melagabbro is the dominant lithology in this hole. Local areas display subtle layering with more or less plagioclase-rich "bands" but the variation from more leucocratic to more melanocratic

gabbro is generally progressive. Pyroxenite layers less than one metre in width are present and are composed of pyroxene cumulates (partly transformed to hornblende) with interstitial plagioclase. Small anorthosite layers were intersected but are scarce. A wide feldspar porphyry dike was encountered near the bottom of the hole.

No significant magmatic mineralization was observed though scattered occurrences of traces of pyrite are not uncommon. A 20 cm quartz vein with pyrite and molybdenite was intersected.

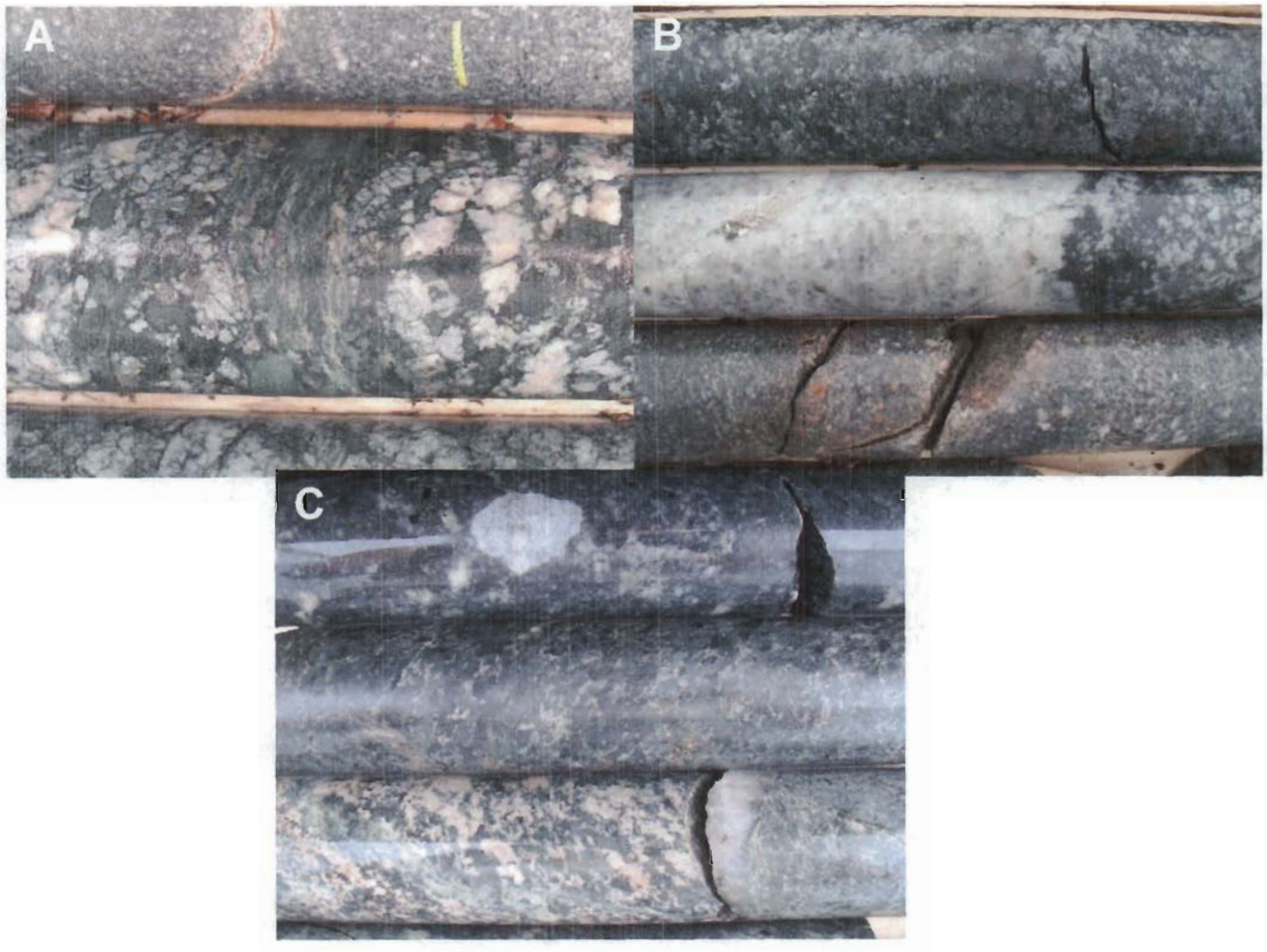


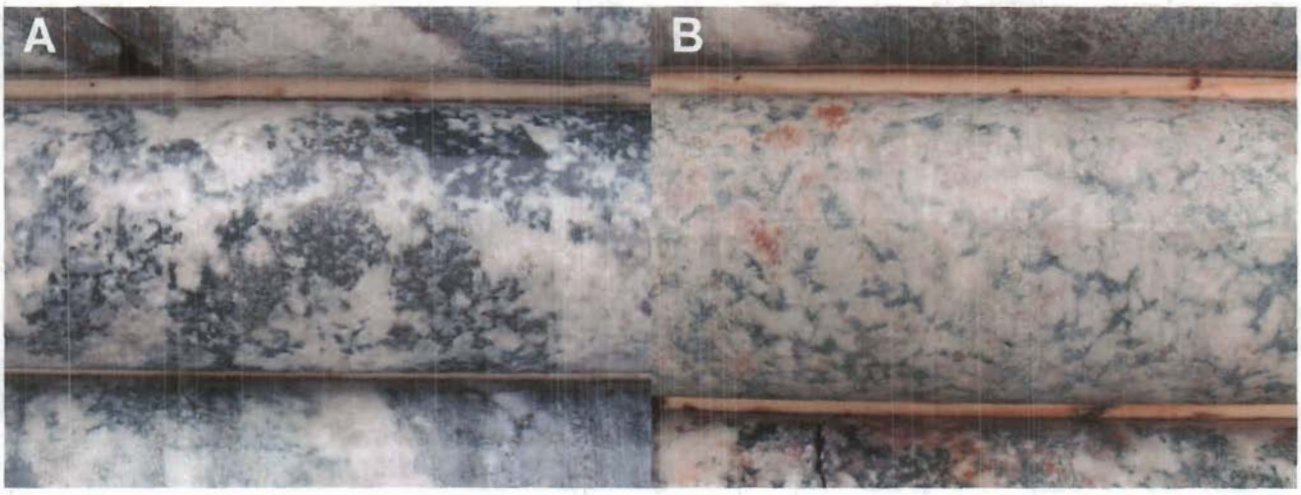
Figure 3.11. Core from hole 06HB-06. A) Very coarse-grained gabbro with small shear, B) Contact anorthosite-gabbro and C) Pyroxenite (pyroxene cumulate).

DDH 06HB-007			
Collar UTMN:	5811870	**Core Angle**	30 to 45
Collar UTME	554605	**Dip of Layering**	
Drilling Azimuth	333°	**Main Lithology**	Anorthositic gabbro
Dip	-60°	**Main Mineralization**	Ilmenite and pyrite "oikocrysts"?

This hole targeted the highest Pt and Pd MMI anomaly from Highbank at the north end of P-15, in the northern part of the property. Paleozoic carbonates were intersected at a depth of 43.3 metres, followed by semi consolidated to unconsolidated carbonate-rich clays. Strongly carbonate-altered rock displaying what appeared to be remnant textures of a gabbro with mafic oikocrysts was intersected at approximately 50 metres. The top portion of the hole is strongly altered and oxidized, and contains a variety of minerals including talc, sericite, epidote, iron-carbonate (brick-red), serpentine and a non-identified copper color mica, which replaces the mafic minerals.

The dominant lithology in this hole is anorthositic gabbro, with thin mafic oikocrysts forming variable proportions of the rock. Oikocrysts (or replacement of oikocrysts) of ilmenite and pyrite with fine specks of sericite and/or epidote are common in this unit. Small intersections of medium-grain plagioclase cumulate rocks and pegmatitic gabbro were also intersected.

Quartz veins with very large pyrite crystals are common in this hole. Blebs of pyrite and ilmenite with leucoxene coronas are also relatively abundant.



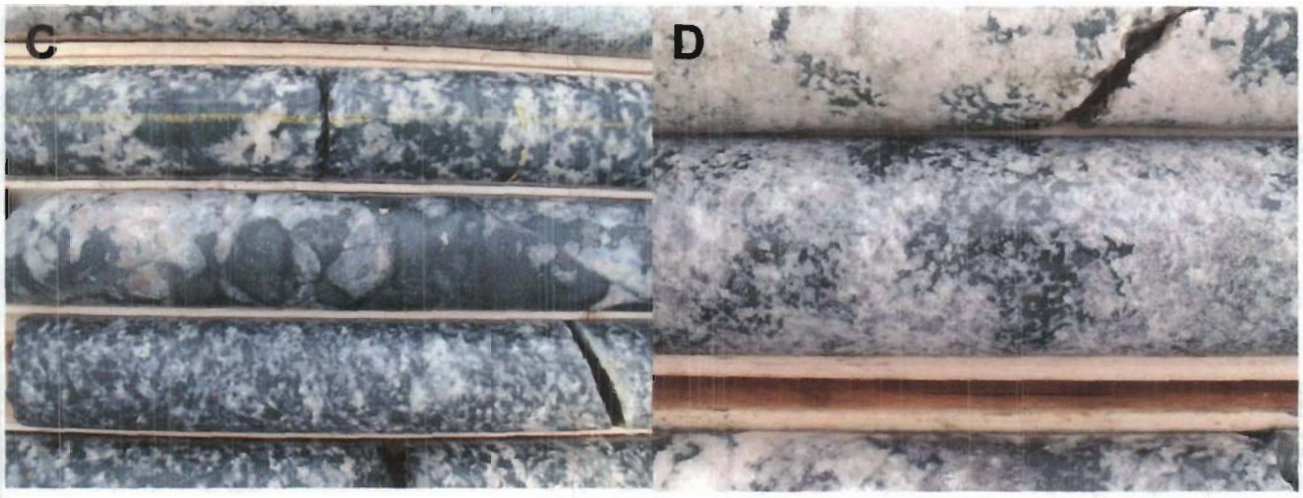


Figure 3.12. Core from hole 06HB-07. A) Ilmenite-pyrite "oikocryst", B) Plagioclase cumulate, C) Pegmatitic gabbro and D) Anorthosite with mafic oikocrysts.

DDH 06HB-009			
Collar UTMN:	5,805,669	**Core Angle**	80°-90°
Collar UTME	554,430	**Dip of Layering**	40°-30°
Drilling Azimuth	333°	**Main Lithology**	Garnetiferous metapyroxenite-melagabbro, magnetite-gabbros and magnetite reefs
Dip	-60°	**Main Mineralization**	Magnetite reefs

Diamond-drill hole 06HB-009 was intended to test the strong chargeability anomaly that corresponds to the main magnetic marker horizon that forms the outer layer of the layered sequence. Although this horizon was not well supported by MMI, all five of the chromitite boulders so far recovered along the river's edge are located directly over this magnetic layer.

No chromitite layers were intersected. The top of the hole was dominated by garnetiferous metapyroxenite and melagabbro with thin fine-grained ultramafic layers commonly containing pyrite and magnetite. Magnetite gabbro and magnetite reefs, akin to those seen in hole 06HB-004 were intersected in the middle portion of the hole overlying a 27 meter interval of fine rhythmic layered gabbro. Thin layers of what is tentatively identified as plagioclase-olivine cumulate, occurs at the at irregular intervals in the hole.

A 4 metre-wide zone of breccia dominated by a bright orange mineral was intersected near the end of the hole. Pieces of thinly bedded sedimentary looking fragments are still recognizable through this zone. The orange mineral forms long, tabular to acicular crystals. The origin, nature and composition of this breccia are unknown.

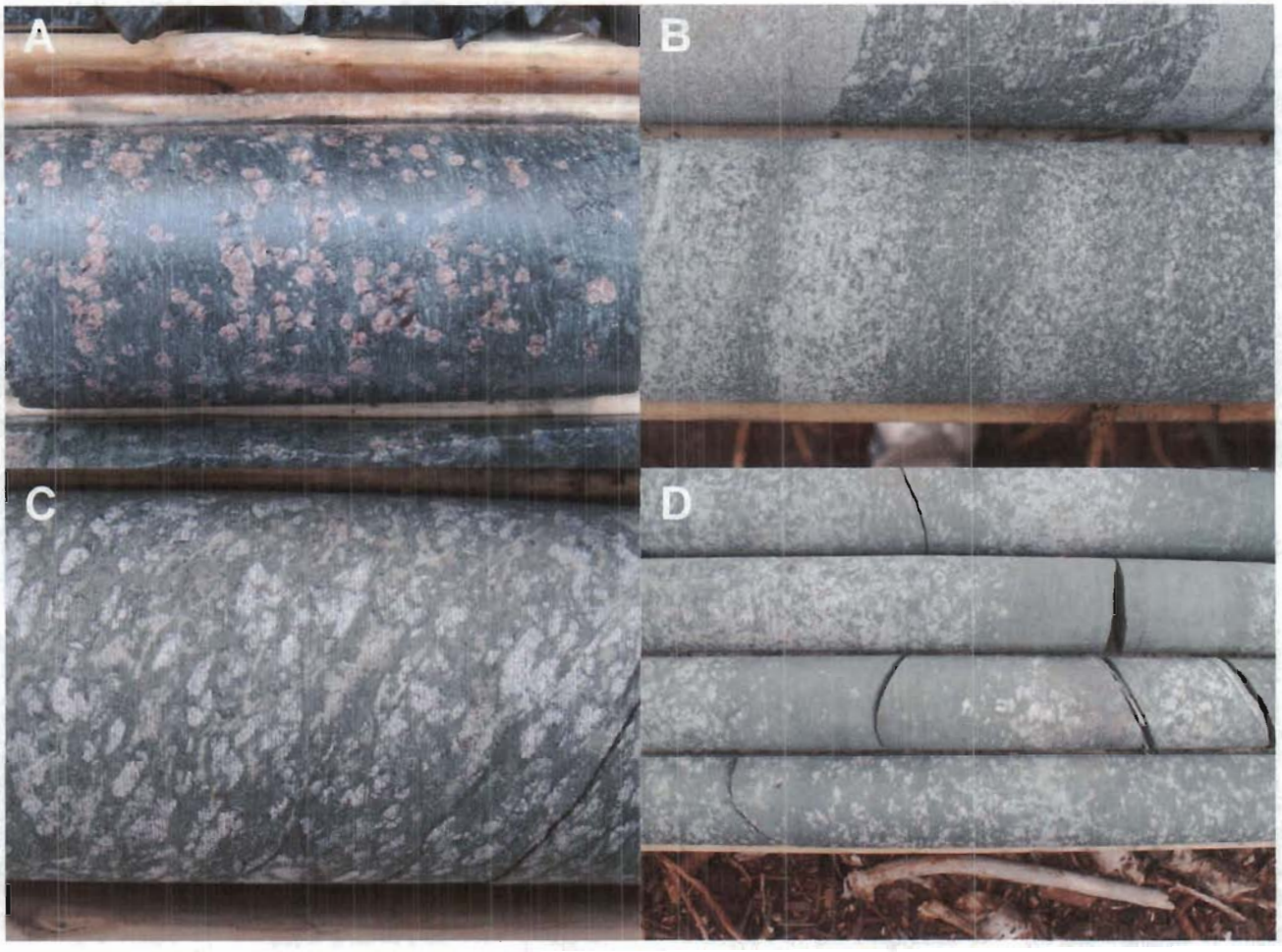


Figure 3.13. Core from hole 06HB-09. A) Garnetiferous pyroxenite, B) Fine rhythmically layered gabbro, C) Possible plagioclase-olivine cumulate and D) Layered pyroxenite to leucogabbro.

DDH 06HB-010			
Collar UTMN:	5,811,386	**Core Angle**	0°, 45°
Collar UTME	551,798	**Dip of Layering**	0°, 0°
Drilling Azimuth	333°	**Main Lithology**	
Dip	-60°	**Main Mineralization**	Net-textured pyrrhotite, 5 meter interval with 4% disseminated pyrrhotite

This drill-hole targeted a second chargeability anomaly that's exists 250 metres north of the anomaly tested by 06HB-001. There are no MMI anomalies directly overlying this chargeable zone though it is possible that the elevated Ni, Co and PGE values overlying the first drill target are the result of a

slight southward migration of the ions due to ground water flow. The strong IP chargeable anomaly, as seen in the first IP section, may not be a single vertically dipping body as it appears but the results of several closely spaced chargeable zones. The IP data re-processed to only include near surface response (N= 1 to 10, Figure 3.14) appears to highlight this possibility with possibly up to three relatively shallowly dipping layers. Hole 06HB-010 tested this second IP anomaly.

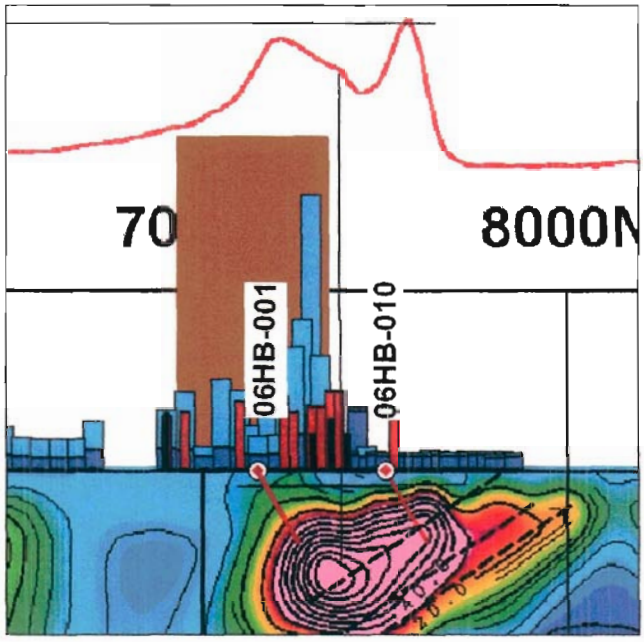


Figure 3.14. Titan 24 IP data for N=1 to 10 in the area of holes 06HB-01 and 06HB-10.

Garnetiferous pyroxenites with strongly sillicified zones were intersected at the beginning of this hole. The sillicified zones are in very sharp contact with the pyroxenites, and their nature and origin is uncertain. Anorthosite with small pyrrhotite-rich veins is also a common lithology in this hole. Other rock types intersected include magnetite-melagabbro to pyroxenite and rhythmically layered fine- and medium-grained gabbros.

Two significant intervals of sulphide mineralization were intersected in hole 06HB-010. The first was a 12 cm interval of semi-massive – net-textured pyrrhotite and lesser pyrite occurring at the base of a 14 metre-thick anorthosite layer. The sulphides enclose 20% rounded to angular, 0.2-2.0 mm, black, hornblende fragments, 15% cloudy, rounded 1-15 mm plagioclase fragments, and 3-5% patchy irregular ilmenite. Underlying the semi-massive sulphides the rock is well foliated and is composed of chloritized hornblende (60%), plagioclase (<10%), patchy ilmenite (20%) and stringer-like sulphides (10%), roughly parallelling foliation. Sulphides include pyrite (7%) pyrrhotite (2%) and chalcopyrite (1%). The second mineralized intersection is a 5 metres interval with 4% fine grained disseminated pyrrhotite, 1% ilmenite and 1% pyrite, hosted in an altered pyroxenite. The rock is patchy, dark green

to grey, with no obvious fabric. Reported grain size is 0.4-0.8 mm. Darker patches are composed of green to black chloritized augite/hornblende (90%; SEM confirmed) and a trace of quartz (SEM confirmed). Lighter coloured patches are chemically similar but composed of paler fibrous to acicular augite possibly partly metamorphosed into actinolite (80%), hypersthene (10-15%; SEM confirmed) and a trace of quartz.

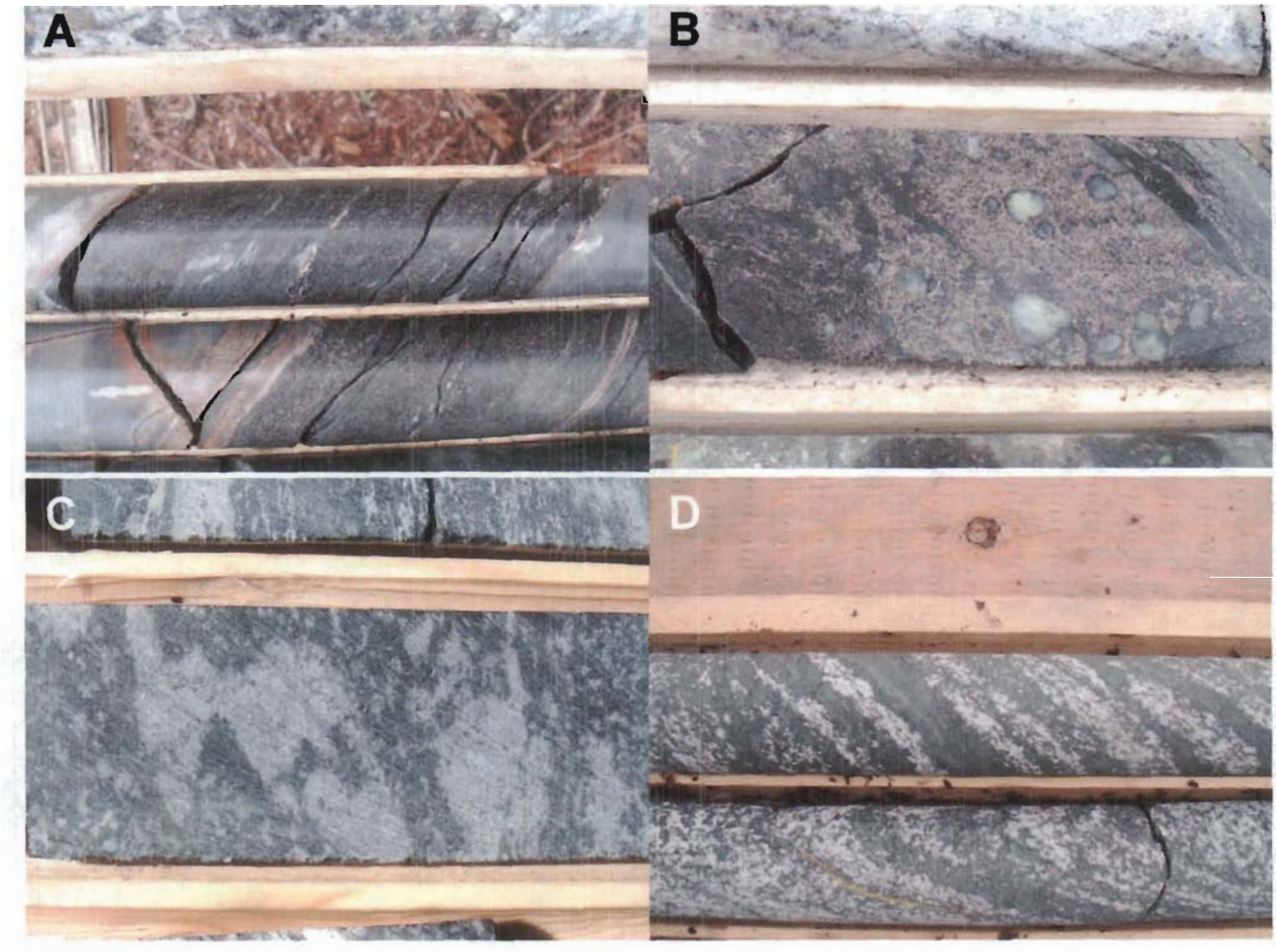


Figure 3.15. Core from hole 06HB-10. A) Pyroxenite with sillicified zones, B) Net textured pyrrhotite and pyrite, C) Altered pyroxenite with disseminated pyrrhotite and D) Rhythmically layered gabbro

4.0 REFERENCES

Ayres, L.D., 1974. Geology of the Trout Lake area, District of Kenora (Patricia Portion). Ontario Department of Mines, Geological Report 113, 199 pages.

Bennett, G. and Riley, R. A., 1969. Operation Lingman Lake. Ontario Department of Mines, Miscellaneous Paper 27, 52 pages.

Borthwich, A.A. and Naldrett, A.J., 1984. Platinum group elements in layered intrusions. *In* Geoscience Research Grant Program, Summary of Research, 1983-1984, Ontario Geological Survey, Miscellaneous Paper 121, p.13-35.

Card, K.D. and Ciesieleski, A., 1986. DNAG#1. Subdivisions of the Superior Province of the Canadian Shield, Geoscience Canada, v. 13, p.5-13.

Corkery, M.T., Syme, E.C., Bailes, A.H., Skulski, T., Whalen, J.B., Böhm, C., Lin, S., Stone, D. and Davis, D.W., 2001. Archean crustal development and assembly of the northwest Superior Province circa 2700 Ma in central Manitoba and northwestern Ontario (abstract). In 2001 Western superior Transect Seventh Annual Workshop. Lithoprobe Report 80, Lithoprobe Secretariat, University of British Columbia, p.142.

Fahrig, W.F. and West, T.D. 1986. Diabase dike swarms of the Canadian Shield. Geological Survey of Canada, Map 1627A, scale 1:4 873 900 (approx.).

Heaman, L.M., Machado, N., Krogh, T.E. and Weber, W., 1986. Precise U-Pb zircon ages for the Molson dike swarm and the Fox River sill: constraints for early Proterozoic crustal evolution in northeastern Manitoba, Canada. Contributions to Mineralogy and Petrology, v.94, p.82-89.

LeCheminant, A.N. and Heaman, L.M., 1989. Mackenzie igneous events, Canada: Middle Proterozoic hotspot magmatism associated with ocean opening. Earth and Planetary Science Letters, v.96, p.38-48.

Mazur, R.J. and Osmani, I.A., 2002. Aurora Platinum Corp. Lansdowne House Property, Bartman Lake area, northwestern Ontario. Technical Report, National Instrument 43-101 F1, 45 pages.

Ontario Geological Survey, 1992. Bedrock geology of Ontario. Ontario Geological Survey, ERLIS Dataset 6.

Ontario Geological Survey, 2003. Ontario airborne geophysical surveys, magnetic data, Attawapiskat area. Ontario Geological Survey, Geophysical Data Set 1211.

Palmer, D. 2003. Highbank Lake Property, Work Report 2001-2003. Unpublished report prepared for Northern Shield Resources Inc., 133 pages.

Rayner, N. and Stott, G.M., 2005. Discrimination of Archean domains in the Sachigo Subprovince: A progress report on the geochronology. *In* Summary of Field Work and Other Activities 2005, Ontario Geological Survey, Open File Report 6172, p. 10-1 to 10-21.

Skulski, T., Corkery, M.T., Stone, D., Whalen, J.G. and Stern, R.A., 2000. Geological and geochronological investigations in the Stull Lake-Edmund Lake greenstone belt and granitoid rocks of the northwestern Superior Province. *In* Report of Activities 2000, Manitoba Industry, Trade and Mines, p. 117-128.

Stern, R.A., Hansen, G.N. and Shirey, S.B., 1989. Petrogenesis of mantle-derived LILE-enriched Archean monzodiorites and trachyandesites in the southwestern Superior Province. Canadian

Township	Claim Number	Recording Date	Claim Due Date	Status	% Option	Work Required	Total Applied	Total Reserve	Claim Bank
North Bloc									
BMA 524861	3015904	2005-Jul-22	2007-Jul-22	A	1	$5,600	$0	$0	$0
BMA 524861	3015905	2005-Jul-22	2007-Jul-22	A	1	$4,800	$0	$0	$0
BMA 524861	3015906	2005-Jul-22	2007-Jul-22	A	1	$5,600	$0	$0	$0
BMA 524861	3015907	2005-Jul-22	2007-Jul-22	A	1	$4,800	$0	$0	$0
BMA 524861	4203152	2005-Sep-14	2007-Sep-14	A	1	$2,400	$0	$0	$0
BMA 524861	1249016	2003-Oct-08	2007-Oct-08	A	1	$6,400	$12,800	$1,789	$0
BMA 524861	1249019	2003-Oct-08	2007-Oct-08	A	1	$6,400	$12,800	$0	$0
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BMA 524862	3019449	2003-Nov-18	2007-Nov-18	A	1	$5,600	$12,400	$0	$0
BMA 524861	3019450	2003-Nov-18	2007-Nov-18	A	1	$6,400	$12,800	$0	$0
BMA 524861	3019451	2003-Nov-18	2007-Nov-18	A	1	$6,000	$12,000	$0	$0
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BMA 524862	4205453	2006-May-17	2008-May-17	A	1	$6,400	$0	$0	$0

Township	Claim Number	Recording Date	Claim Due Date	Status	% Option	Work Required	Total Applied	Total Reserve	Claim Bank
BMA 524862	4205454	2006-May-17	2008-May-17	A	1	$6,400	$0	$0	$0
BMA 524861	3015893	2005-Jul-14	2008-Jul-14	A	1	$6,400	$0	$0	$0
BMA 524861	3015894	2005-Jul-14	2008-Jul-14	A	1	$6,400	$0	$0	$0
BMA 524861	3015895	2005-Jul-14	2008-Jul-14	A	1	$6,400	$0	$0	$0
BMA 524861	3015896	2005-Jul-14	2008-Jul-14	A	1	$6,400	$0	$0	$0
BMA 524861	3015897	2005-Jul-14	2008-Jul-14	A	1	$6,400	$0	$0	$0
BMA 524861	3015899	2005-Jul-14	2008-Jul-14	A	1	$6,400	$0	$0	$0
BMA 524861	3015900	2005-Jul-14	2008-Jul-14	A	1	$6,400	$0	$0	$0
BMA 524861	3015901	2005-Jul-14	2008-Jul-14	A	1	$6,400	$0	$0	$0
BMA 524862	4213754	2006-Nov-21	2008-Nov-21	A	1	$6,400	$0	$0	$0
BMA 524862	4213755	2006-Nov-21	2008-Nov-21	A	1	$6,400	$0	$0	$0
BMA 524862	4213756	2006-Nov-21	2008-Nov-21	A	1	$6,400	$0	$0	$0
BMA 524862	4213757	2006-Nov-21	2008-Nov-21	A	1	$6,000	$0	$0	$0
BMA 523862	4213758	2006-Nov-21	2008-Nov-21	A	1	$6,000	$0	$0	$0
BMA 524862	4213759	2006-Nov-21	2008-Nov-21	A	1	$6,400	$0	$0	$0
BMA 524862	4213760	2006-Nov-21	2008-Nov-21	A	1	$6,400	$0	$0	$0
BMA 524862	4213761	2006-Dec-07	2008-Dec-07	A	1	$6,000	$0	$0	$0
BMA 524862	4213762	2006-Dec-07	2008-Dec-07	A	1	$6,000	$0	$0	$0
BMA 524862	4215537	2007-Jun-26	2009-Jun-26	A	1	$6,400	$0	$0	$0
BMA 524862	4215538	2007-Jun-26	2009-Jun-26	A	1	$1,200	$0	$0	$0
BMA 524862	4215539	2007-Jun-26	2009-Jun-26	A	1	$1,600	$0	$0	$0
BMA 524862	4215547	2007-Jun-26	2009-Jun-26	A	1	$2,800	$0	$0	$0
BMA 524862	4221864	2007-Jun-26	2009-Jun-26	A	1	$3,200	$0	$0	$0
BMA 524862	4221865	2007-Jun-26	2009-Jun-26	A	1	$6,400	$0	$0	$0
BMA 524862	4221866	2007-Jun-26	2009-Jun-26	A	1	$6,400	$0	$0	$0
BMA 524862	4221867	2007-Jun-26	2009-Jun-26	A	1	$3,200	$0	$0	$0
BMA 523862	4215546			A	1	$6,400	$0	$0	$0
BMA 523862	4215548			A	1	$2,400	$0	$0	$0
BMA 523862	4215549			A	1	$6,400	$0	$0	$0
BMA 523862	4221868			A	1	$6,400	$0	$0	$0
BMA 523862	4221869			A	1	$6,400	$0	$0	$0
BMA 523862	4221870			A	1	$6,400	$0	$0	$0
BMA 523862	4221871			A	1	$6,400	$0	$0	$0
BMA 523862	4221872			A	1	$6,400	$0	$0	$0
BMA 523862	4221873			A	1	$6,400	$0	$0	$0
BMA 523862	4221874			A	1	$6,400	$0	$0	$0

Township	Claim Number	Recording Date	Claim Due Date	Status	% Option	Work Required	Total Applied	Total Reserve	Claim Bank
South Bloc									
BMA 523861	1249066	2004-Aug-17	2007-Aug-17	A	1	$6,400	$6,400	$0	$0
BMA 523861	1249070	2004-Aug-17	2007-Aug-17	A	1	$6,400	$6,400	$0	$0
BMA 523861	3009414	2004-Aug-17	2007-Aug-17	A	1	$6,400	$6,400	$0	$0
BMA 523861	3012272	2004-Aug-17	2007-Aug-17	A	1	$6,400	$6,400	$0	$0
BMA 523861	3019467	2004-Aug-17	2007-Aug-17	A	1	$6,400	$6,400	$0	$0
BMA 523861	3019577	2004-Aug-17	2007-Aug-17	A	1	$6,400	$6,400	$0	$0
BMA 523861	1180765	2001-Oct-18	2007-Oct-18	A	1	$6,400	$25,600	$0	$0
BMA 523861	1180768	2001-Oct-18	2007-Oct-18	A	1	$6,400	$25,600	$0	$0
BMA 523861	1180769	2001-Oct-18	2007-Oct-18	A	1	$6,400	$25,600	$0	$0
BMA 523861	1180771	2001-Oct-18	2007-Oct-18	A	1	$6,400	$25,600	$196	$0
BMA 523861	1180772	2001-Oct-18	2007-Oct-18	A	1	$6,400	$25,600	$0	$0
BMA 523861	1180773	2001-Oct-18	2007-Oct-18	A	1	$6,400	$25,600	$0	$0
BMA 523861	1180778	2001-Oct-18	2007-Oct-18	A	1	$6,400	$25,600	$0	$0
BMA 524861	1180780	2001-Oct-18	2007-Oct-18	A	1	$6,400	$25,600	$0	$0
BMA 524861	1180781	2001-Oct-18	2007-Oct-18	A	1	$6,400	$25,600	$0	$0
BMA 524861	1180782	2001-Oct-18	2007-Oct-18	A	1	$5,600	$22,400	$0	$0
BMA 524861	1180784	2001-Oct-18	2007-Oct-18	A	1	$1,600	$6,400	$0	$0
BMA 524861	1180789	2001-Oct-18	2007-Oct-18	A	1	$2,400	$9,600	$0	$0
BMA 523861	3019138	2004-Oct-18	2007-Oct-18	A	1	$6,400	$6,400	$0	$0
BMA 523861	3019139	2004-Oct-18	2007-Oct-18	A	1	$6,400	$6,400	$0	$0
BMA 523861	3019140	2004-Oct-18	2007-Oct-18	A	1	$6,400	$6,400	$0	$0
BMA 523861	3019141	2004-Oct-18	2007-Oct-18	A	1	$6,400	$6,400	$0	$0
BMA 524861	3019142	2004-Oct-18	2007-Oct-18	A	1	$6,400	$6,400	$0	$0
BMA 523861	3019136	2005-Oct-27	2007-Oct-27	A	1	$6,000	$0	$10,230	$0
BMA 523861	3019135	2004-Nov-04	2007-Nov-04	A	1	$6,400	$6,400	$0	$0
BMA 523861	3019427	2003-Nov-18	2007-Nov-18	A	1	$6,400	$12,800	$0	$0
BMA 523861	3019433	2003-Nov-18	2007-Nov-18	A	1	$6,400	$12,800	$0	$0
BMA 523861	3019434	2003-Nov-18	2007-Nov-18	A	1	$6,400	$12,800	$0	$0
BMA 523861	3019435	2003-Nov-18	2007-Nov-18	A	1	$6,400	$12,800	$0	$0
BMA 524861	3019436	2003-Nov-18	2007-Nov-18	A	1	$6,400	$12,800	$0	$0
BMA 524861	3019437	2003-Nov-18	2007-Nov-18	A	1	$6,000	$12,000	$0	$0
BMA 524861	3019438	2003-Nov-18	2007-Nov-18	A	1	$6,400	$12,800	$0	$0
BMA 523861	3019439	2003-Nov-18	2007-Nov-18	A	1	$6,400	$12,800	$0	$0
BMA 523861	3019440	2003-Nov-18	2007-Nov-18	A	1	$6,400	$12,800	$0	$0
BMA 523861	3019132	2005-Jan-07	2008-Jan-07	A	1	$6,000	$6,000	$0	$0
BMA 523861	3019133	2005-Jan-07	2008-Jan-07	A	1	$6,400	$6,400	$0	$0
BMA 523861	3019134	2005-Jan-07	2008-Jan-07	A	1	$6,400	$6,400	$0	$0
BMA 523861	3015903	2005-Jul-14	2008-Jul-14	A	1	$6,400	$6,400	$0	$0
BMA 523861	3015924	2005-Jul-14	2008-Jul-14	A	1	$6,400	$6,400	$64,479	$0
BMA 523861	3015925	2005-Jul-14	2008-Jul-14	A	1	$6,400	$6,400	$0	$0
BMA 523861	3015926	2005-Jul-14	2008-Jul-14	A	1	$6,400	$6,400	$0	$0
BMA 523861	3015927	2005-Jul-14	2008-Jul-14	A	1	$6,400	$6,400	$0	$0
BMA 523861	3015928	2005-Jul-14	2008-Jul-14	A	1	$6,400	$6,400	$0	$0
BMA 523861	3015929	2005-Jul-14	2008-Jul-14	A	1	$6,400	$6,400	$0	$0
BMA 523861	3015930	2005-Jul-14	2008-Jul-14	A	1	$6,400	$6,400	$0	$0
BMA 523861	3015931	2005-Jul-14	2008-Jul-14	A	1	$6,400	$6,400	$0	$0
BMA 523861	3015932	2005-Jul-14	2008-Jul-14	A	1	$6,400	$6,400	$8,099	$0
BMA 523861	3015933	2005-Jul-14	2008-Jul-14	A	1	$6,400	$6,400	$1,068	$0

Township	Claim Number	Recording Date	Claim Due Date	Status	% Option	Work Required	Total Applied	Total Reserve	Claim Bank
BMA 523861	3015934	2005-Jul-14	2008-Jul-14	A	1	$6,400	$6,400	$1,068	$0
BMA 523861	3015935	2005-Jul-14	2008-Jul-14	A	1	$6,400	$6,400	$1,068	$0
BMA 523861	3015936	2005-Jul-14	2008-Jul-14	A	1	$6,400	$6,400	$1,068	$0
BMA 523861	3015937	2005-Jul-14	2008-Jul-14	A	1	$6,400	$6,400	$74,148	$0
BMA 524861	3015938	2005-Jul-14	2008-Jul-14	A	1	$6,400	$6,400	$1,268	$0
BMA 524861	3015909	2005-Jul-22	2008-Jul-22	A	1	$2,000	$2,000	$0	$0
BMA 524861	3015913	2005-Jul-22	2008-Jul-22	A	1	$5,200	$5,200	$0	$0
BMA 524861	3015914	2005-Jul-22	2008-Jul-22	A	1	$6,400	$6,400	$0	$0
BMA 524861	3015915	2005-Jul-22	2008-Jul-22	A	1	$6,400	$6,400	$0	$0
BMA 524861	3015916	2005-Jul-22	2008-Jul-22	A	1	$6,400	$6,400	$43,680	$0
BMA 524861	3015917	2005-Jul-22	2008-Jul-22	A	1	$6,400	$6,400	$0	$0
BMA 524861	3015918	2005-Jul-22	2008-Jul-22	A	1	$6,400	$6,400	$0	$0
BMA 524861	3015919	2005-Jul-22	2008-Jul-22	A	1	$6,400	$6,400	$0	$0
BMA 524861	3015920	2005-Jul-22	2008-Jul-22	A	1	$6,400	$6,400	$0	$0
BMA 524861	3015921	2005-Jul-22	2008-Jul-22	A	1	$6,400	$6,400	$0	$0
BMA 524861	3015939	2005-Jul-22	2008-Jul-22	A	1	$3,200	$3,200	$72,899	$0
BMA 524861	3015940	2005-Jul-22	2008-Jul-22	A	1	$6,400	$6,400	$0	$0
BMA 524861	3015941	2005-Jul-22	2008-Jul-22	A	1	$6,400	$6,400	$0	$0
BMA 524861	3015942	2005-Jul-22	2008-Jul-22	A	1	$6,000	$6,000	$0	$0
BMA 523861	4210946	2006-Aug-25	2008-Aug-25	A	1	$6,400	$0	$0	$0
BMA 523861	4202143	2006-Nov-21	2008-Nov-21	A	1	$6,000	$0	$0	$0
BMA 523861	4204286	2006-Nov-21	2008-Nov-21	A	1	$6,400	$0	$0	$0
BMA 523862	4210948	2006-Nov-21	2008-Nov-21	A	1	$6,400	$0	$0	$0
BMA 523861	4210949	2006-Nov-21	2008-Nov-21	A	1	$6,400	$0	$0	$0
BMA 523861	4210954	2006-Nov-21	2008-Nov-21	A	1	$6,400	$0	$0	$0
BMA 523861	4210956	2006-Nov-21	2008-Nov-21	A	1	$6,400	$0	$0	$0
BMA 523861	4210960	2006-Nov-21	2008-Nov-21	A	1	$3,600	$0	$0	$0
BMA 523861	4210961	2006-Nov-21	2008-Nov-21	A	1	$6,400	$0	$0	$0
BMA 523861	4210963	2006-Nov-21	2008-Nov-21	A	1	$4,800	$0	$0	$0
BMA 523861	4210975	2006-Nov-21	2008-Nov-21	A	1	$6,400	$0	$0	$0
BMA 523861	4213763	2006-Nov-21	2008-Nov-21	A	1	$6,400	$0	$0	$0
BMA 523861	4215550	2007-Jun-26	2009-Jun-26	A	1	$6,400	$0	$0	$0
BMA 523861	4215578	2007-Jun-26	2009-Jun-26	A	1	$6,400	$0	$0	$0
BMA 523861	4215579	2007-Jun-26	2009-Jun-26	A	1	$6,400	$0	$0	$0
BMA 523862	4221861	2007-Jun-26	2009-Jun-26	A	1	$400	$0	$0	$0
BMA 523862	4221862	2007-Jun-26	2009-Jun-26	A	1	$4,800	$0	$0	$0
BMA 523862	4221863	2007-Jun-26	2009-Jun-26	A	1	$3,600	$0	$0	$0

APPENDIX 2

Logs for Diamond-Drill Holes
06HB-01 to 06HB-10

Drill Log

Company Name:	Northern Shield Resources	**DDH Number:**	06HB-01
Property Name:	Highbank Lake	**Collar UTMN:**	5811072
Location:	250 km north of Nakina, ON 75 km northwest of Ogoki	**Collar UTME:**	551953
		Zone, Datum:	16, NAD83
Claim Number:	3019450	**Drilling Azimuth:**	333°
		Hole Length:	212.8 m
Drilling Contractor:	Cartwright Drilling	**Core Size:**	BTW (BQ Thin Wall)
Date of start:	3-Jun-06	**Logs by:**	Christine Vaillancourt, CCIC
Date completed:	8-Jun-06 - hole lost	**Core Storage:**	Warehouse in Hearst, Ontario

From	To	Rock Type	Description
0.0	47.8	Overburden	Rubbles: one grey to pinkish sandstone, one very carbonated white-beige sediment, one VF, grey-green, posy mafic volcanic
47.8	47.9	Coarse grained, porphyritic metagabbro	Weathered top portion of outcrop, see below for rock description.
49.1	51.0	Coarse grained, porphyritic metagabbro	Very weathered, rusty core, some of it with the recognizable glomerocrysts and others are more altered dark-green with cb veins. It looks like 47.9 to 49.1 is boulder and real bedrock starts at 51.0
51.0	65.3	Coarse grained, porphyritic metagabbro	Rock does not really look deformed but there is some orientation of the phenocx typically between 20-25, up to 35o to perpendicular. There are "layers" with different sizes and amounts of glomerocx but the transition from one to the other is not sharp.
			Phenocx are 2mm to 3cm, typically similar within one section. They look like saussuritized and or silicified plagioclase. They are commonly irregular in shape, and broken-up. Form up to 15-20% of the rock.
			Matrix is very fine amphiboles and possibly chlorite?
			Magnetite forms 1 to 5% of the rock generally but up to 15% and forms irregular blebs up to 3-4mm wide and centimetric in length. There is another mineral that looks just like the magnetite but is only slightly magnetic, ilmenite or hematite? It is recognizable because it almost always has a hairline corona of what looks like milky quartz?
			~1% disseminated pyrite all through the section, often associated with the magnetite and more abundant in phenocx-poor sections. Py also fills fine fractures. . Fine quartz-rich veins also carry pyrite in variable amounts. The disseminated pyrite in the rock seems to be more abundant near the veins.
			Up to 1-2% sericite in some sections, typically associated with silicification that renders the phenocx translucent.
			54.1 - Two quartz veins with trace py and tr ep, parallel to layering.

					54.2 - Small 0.5 cm qz vein at 45o to perpendicular with py smeared along one contact.	
					54.9-55.1 - Section practically cx free, 10% mt with patchy qz+ep (greenish) clouds.	
					62.7-63.3 - Silicified section along qz+py veins. Phenocx look silicified (transparent look). Py forms large blebs around vein and also 3% disseminated.	
					63.4 - Qz-pg vein sub-perpendicular to core with halo of orangy alteration on pg near the vein.	
					64.5 - Pyrite and illmenite	
					59-65.3 - Generally larger glomerocx (>1cm), silicified, shattered, more dispersed, mt-rich section.	
65.3	68.1			Coarse-grained magnetite-rich metagabbro	Scarce to no phenocx section.	
					Up to 10% mt in "bands" at around 45o to perpendicular.	
					~1% disseminated py.	
					65.4-65.8 - Amphibolite (metapyroxenite)	
					67.9 - Small py vein with a patch of cpy	
68.1	70.2			Coarse-grained, porphyritic metagabbro	Same as 51.0-65.3. Orientation of phenocx is ~30o to perpendicular	
					67.9 - Hairline fractures at 45o to perpendicular	
					68.5 - Large bleb of magnetite	
70.2	70.5			Coarse-grained metagabbro	Same as 65.3-68.1. 3-4% mt, tr py	
					70.4 - Small 3 mm qz vein	
70.5	71.2			Coarse-grained, porphyritic metagabbro	Same as previously described, large pg phenocrysts, tr py, 2-3% mt.	
71.2	79.6			Coarse-grained metagabbro	Phenocx-poor, mt-rich section.	
					Mt is interstitial, up to 10% of rock	
					1% specks of py with tr po and cpy	
					Short sections are sericite?-rich with 1-2% illmenite	
					75.4 - Fine mafic dike, 15 cm wide, 40o to perpendicular	
79.6	103.7			Coarse-grained, porphyritic metagabbro	Same as previously described	
					80.5 - Qz vein, core is fragmented, hard to guess real size.	
					83.4-83.6 - Pyrite-rich zone (6-7%) aligned with foliation at 25o to perpendicular, tr po and cpy, 2% mt-il.	
					83.7 - Py vein cutting a pg phenocx	
					86.25-86.4 - Sericite-rich zone with 1% py and tr cpy	
					86.8-87.7 - 1-2% patchy sulfides, mostly py, some cubes, tr cpy	
					90.2-91.9 - Sulphide-enriched zone, 2% irregularly distributed. Mostly py, tr cpy and po. Qz bleb with py corona at 91.6.	

					93.7-94.3 - Sulphide-enriched area, up to 5% at 94.2. Py+mt veins also.	
					94.6 - Qz vein, 4cm, massive.	
					94.6-95.7 - Looks almost sheared with disseminated py and dislocated mt-sericite bands.	
					103.3 - "S" shape shear	
103.7	103.9			Very fine-grained metagabbro	Dike, grey-greenish, no obvious chilled margin, very massive, looks undeformed.	
					Hairline fractures filled with qz. A bit greenish, possibly some ep+ser?	
103.9				Coarse-grained, porphyritic metagabbro	Same as previously described.	
					110.2-112.0 - Deformed zone ~15-20o to perpendicular, sericitic veins with up to 2% py, seems associated with qz, mt+ilmenite	
					119.8-120.1 - More deformed section, py-rich zone (up to 6-7%), illmenite and local sericite.	
					120.1-120.6 - Mixed zone with some very large phenocx, up to 5cm, tabular. Large mt blebs, 1% py zones, illmenite with coronas.	
					120.6-122.2 - Very small phenocx, sheared, lots of illmenite with coronas, py+mt bands.	
					122.2-128.3 - Generally layered porphyritic gabbro, with proportions of phenocx varying between 5-30%.	
					124.2 - Small 2 cm wide shear with micas? Not sure if fine bt but has an almost talc softness when scratched.	
					126.1 - Orangy alteration on the phenocx (K?)	
					127.5 - 4cm qz vein, perpendicular to core, orangy-green (K and ep?) patches.	
128.3	128.4			Very fine-grained metagabbro	Dike. Feels hard and silicified. No chill but if anything, coarser at contacts.	
					Has lots of very small veins and one larger 1mm qz vein, most sub parallel to layering, some at angles.	
128.4	128.8			Coarse-grained, porphyritic metagabbro	Same as previously described.	
128.8	128.9			Very fine-grained metagabbro	Same as previously described.	
128.9	129.0			Coarse-grained, porphyritic metagabbro	Same as previously described	
129.0	129.6			Very fine-grained metagabbro	Dike. 2-3cm silicified zones, some pieces of porphyritic gabbro stuck in. Qz at both contacts.	
129.6	132.0			Coarse-grained, porphyritic metagabbro	Section with irregularly distributed, very large phenocx. with orangy alteration. Some qz veins.	

132.0	135.0			Layered very coarse metagabbro	Best layered looking section so far. Pg phenocrysts concentrate in "layers" of 2-4 cm.	
					Dispersed ilmenite, local mt, not much sulphides except near contact with next unit.	
					133.0 - Small 4 cm fine gabbro dike.	
135.0	135.3			Felsic intrusive	High silica zone, possibly a granitic dike or a "dirty" quartz vein. Pg crystals and some chlorite, possibly other mafic minerals.	
135.3	136.9			Layered very coarse metagabbro	Same as previously described.	
136.9	137.5			Fine-grained metagabbro-qz gabbro	Dike, contacts are sheared at both ends and contain py and mt.	
					Pg gets whiter and mafic mineral (hb?) bigger near hairline fractures	
137.5	138.1			Layered very coarse metagabbro	Same as previously described.	
138.1	138.2			Granitic intrusive	Orangy dike, very siliceous. Looks a bit like	
138.2	138.4			Fine-grained metagabbro	Same as previously described	
138.4	139.2			Coarse grained, porphyritic metagabbro	Altered section, pink siliceous material as 138.15 but <1cm.	
					Qz-ep veins, phenocx are pink brown (K?).	
					Mt and py are almost absent.	
139.2	139.6			Fine-grained metagabbro	Same as previously described	
139.6	139.8			Coarse-grained, porphyritic metagabbro	Medium and large phenocx make ~40% of rock, vague orientation at ~20o to perpendicular.	
					Some hairline fractures with qz	
					Minor traces of py and ilmenite	
139.8	140.8			Fine-grained metagabbro	Dike, up hole contact is somewhat vague, looks like pieces of the porphyritic gabbro were dragged into the dike. Down hole contact is sharp and cuts a pg phenocx.	
					Up hole portion is sericitized around qz vein with ep.	
					Mafic minerals could be am and chl but very fine so not sure.	
					Small qz? phenocx (<0.5mm), concentrated mostly in middle of dike to ~1%.	
					Hairline fractures with silicification halos.	
					No visible sulphides.	
140.8	141.3			Coarse grained, porphyritic metagabbro	Large and small phenocx bands (layers).	
141.3	141.5			Very fine-grained metagabbro	Dike, no qz phenocx.	
					Qz veins.	
					Some illmenite with the qz coronas.	
					Tr of small specks of py.	

141.5	142.7			Layered porphyritic metagabbro?	Mixed intersection that is more foliated. Looks like it could have been layered and the finer grained layers took more deformation than the coarse.	
					Down hole contact is marked by going from phenocx to none (not cutting).	
					Qz veins and partial silicification of phenocx locally. Some K alteration	
					Mt + ilmenite blebs are stretched and have qz coronas.	
					Disseminated py, mostly in mt-illmenite-rich areas.	
					Small fault at 90o to core axis.	
142.7	144.7			Fine-grained metagabbro	Very messy, lots of qz+pg veins 3mm to hairline, randomly oriented. Most fine ones have orangy alteration halos. One ~2mm chlorite vein.	
					Really altered to lighter green and brown color near down hole contact. Big qz vein	
144.7	146.5			Granitic feldspar porphyry	Light grey, orangy, faint orientation defined by mafic minerals (mostly chlorite, I think) almost perpendicular to core axis.	
					Fp phenocx are tabular to square, homogeneous in size (~1.5mm) and form ~5% of the rock.	
					Very hard and siliceous rock.	
					3% chlorite.	
146.5	148.5			Fine-grained metagabbro?	Zone of massive alteration. Very crumbly core.	
					Up hole contact is bright light green over ~20cm, mixture of epidote and sericite? that grades into a rusty brown section with epidote-rich veins and one dark green vein that could be serpentine.	
					Small granitic injections.	
					Where less altered, it is same fine-grained gabbro or qz-gabbro described previously.	
					Veins of epidote and other with orangy halos in what could be small granitic dike at 147.4.	
148.5	149.2			Granitic feldspar porphyry	Same as described before.	
					This one has small veins that are glassy green and soft (looks like serpentine to me!) and also contain white carbonates. Veins are locally rusty red.	
149.2	161.0			Fine-grained metagabbro and very fine-grained metagabbro	Intermixed fine to coarse-grained and very fine-grained gabbros, not sure but seems that vfg intrudes into fg.	
					There is no obvious chilled margins and units are occasionally separated by veins.	
					Very fine-grained gabbro is massive, has very small <0.5mm fp and qz phenocx locally, is slightly to not magnetic. Mafic mineral is likely hb with or without a bit of chlorite. Contains up to 1% mt and 1% py, which follow the minor foliation at ~30o to perpendicular.	

					Randomly oriented qz veins with very minor cb locally.	
					Py is generally in or near veins	
					Garnet porphyroblasts of varying sizes up to 7mm form horizons of similar sizes.	
					Fine to coarse-grained gabbro or qz-gabbro, somewhat layered. Not sure if qz is primary or alteration.	
					Mafic minerals are likely mostly am and some chl but not sure.	
					Plagioclase are locally slightly pink or greenish from epidote.	
					What looks like possible layering varies from 20 to a max of 35o to perpendicular.	
					Extremely variable amounts of mt and ilmenite up to 15% on short sections in between vfg gabbro dikes. I think that mt is more abundant in finer grained portions.	
					Py commonly with mt but not exclusively. Some horizons have 2-3% disseminated py and no mt.	
					Garnet porphyroblasts are locally present but not as common or big as in the vfg gabbro.	
					157.2 - Fragment of medium-grained gabbro in vfg gabbro	
					158.2 - Py vein cuts across a contact between the 2 gabbros.	
					159.5 - Mt reef, 3-4 cm.	
161.0	179.7			Porphyritic very fine-grained metagabbro	Generally very fine melagabbro with <1mm pg phenocx concentrated in "bands" layering-like at ~30o to perpendicular.	
					Mafic minerals could be am and chl but not sure.	
					Traces of disseminated py and ilmenite with the qz coronas.	
					Py veins 2-3mm wide.	
					Qz veins, 3-10 mm crosscutting or parallel to foliation.	
					171.3-171.6 - Qz veined area with more py and some po.	
					173.0 - Dislocated vein with py mostly but also some po (2 blebs of ~10mm x 3mm - one has a cube of py in it). This section is also mt-rich and also has fair amount of disseminated py and po.	
179.7	184.2			Very fine-grained metagabbro	No pg phenocx, contact with previous seems gradual. Good general foliation.	
					Smeared py veins and trace to 1% disseminated py.	
					Mt amounts variable, small grains, not big blebs a previously described in other lithologies.	
					Sections with garnet porphyroblasts, not particularly affected by deformation.	
					181.0 - Qz and fp veins, 5mm.	
					179.9-183.8 - Disseminated po that changes sharply to py+po but no lithology change. The specks are minuscule, only really identifiable with 20X lens.	
					182.90 - Po and qz veinlets, specks of cp	

184.2	192.1			Fp porphyritic metagabbro to anorthosite	Locally layered sequence with 5cm layer of anorthosite. Layering at 30-40o to perpendicular.	
					Garnet is more abundant in more mafic portion but present in felsic as well.	
					Qz veins up to 5cm in size.	
					184.2-184.7 - Porphyritic textured portions contains garnet, ilmenite and ~1% disseminated py.	
					187.2-192.1 - Well layered section.	
192.1	194.2			Fine-grained meta-melagabbro	Pg pheno are rare to mostly absent. Contact with previous somewhat gradual and approximate.	
					Garnet porphyroblasts up to 1cm is size vary in abundance from 0 to 20% of the rock and generally following layering but have also grown across.	
					192.8 - Po+py vein, no disseminated po or py halo.	
					193.5-193.9 - <1% disseminated py + po and veins in magnetite "reef". Up hole contact is sharp and not parallel to layering. Looks like a chlorite + py vein at that contact. Down hole contact is gradual into a garnet-rich horizon.	
194.2	200.4			Coarse-grained metagabbro	This lithology has not been encountered previously. It is well foliated at ~15o to perpendicular.	
					Homogeneous through the section, looks like a good old plain hornblende metagabbro.	
					There could be some chlorite.	
					<1% mt or ilmenite (not very magnetic)	
					<1% sulphides (not sure, very small)	
					The ilmenite here looks chunkier, as if it might actually be chromite... Grains are very small and hard to identify.	
200.4	208.8			Fine-grained porphyritic metagabbro	Some areas are not porphyritic.	
					Alternating veins of py and py+po.	
					Mt "reefs" at 40o to perpendicular with specks of disseminated po	
					203.7 - Sample sent to Ian Bliss. Beautiful small mt "reef" with disseminated po and py, and blebs of po (could be dislocated vein).	
					205.8 - Nice 10 cm wide mt reef with some garnet. It is cut by a small py vein.	
					206.3 - Small 1cm wide mt "reef" with disseminated po.	
					207.2 - Up to 2cm wide garnet porphyroblasts.	
208.8	212.8			Fine porphyritic to layered metagabbro	Similar to previously described.	
					Variable proportions of garnet through section.	
					<1% disseminated py and mt, possibly some po.	

Drill Log

Company Name:	Northern Shield Resources	**DDH Number:**	06HB-02
Property Name:	Highbank Lake	**Collar UTMN:**	5808910
Location:	250 km north of Nakina, Onta	**Collar UTME:**	552930
	75 km northwest of Ogoki	**Zone, Datum:**	16, NAD83
Claim Number:	1249016	**Drilling Azimuth:**	335°
		Hole Length:	0 m
Drilling Contractor:	Cartwright Drilling	**Core Size:**	BTW (BQ Thin Wall)
Date of start:	8-Jun-06	**Logs by:**	Christine Vaillancourt, CCIC
Date completed:	10-Jun-06	**Core Storage:**	No core

From	To	Rock Type	Description
			Never reached bedrock, hole was cancelled

Drill Log

Company Name:	Northern Shield Resources	**DDH Number:**	06HB-03
Property Name:	Highbank Lake	**Collar UTMN:**	5807932
Location:	250 km north of Nakina, Onta	**Collar UTME:**	549482
	75 km northwest of Ogoki	**Zone, Datum:**	16, NAD83
Claim Number:	4205453	**Drilling Azimuth:**	328°
		Hole Length:	219.5 m
Drilling Contractor:	Cartwright Drilling	**Core Size:**	BTW (BQ Thin Wall)
Date of start:	10-Jun-06	**Logs by:**	Christine Vaillancourt, CCIC
Date completed:	16-Jun-06	**Core Storage:**	Warehouse in Hearst, Ontario

From	To	Rock Type	Description
33.5	43.4	Overburden	Variety of pebbles. Didn't find anything interesting like chromitite or other UM lithologies. There are a few soft friable very weathered pieces of light green stuff that has the touch of talc near bedrock but not sure.
43.4	47.2	Layered gabbro to leucogabbro	Layering ~ 15o to perpendicular from core.
			Grain size is generally medium to coarse, although some multi cm pg are locally present.
			Most abundant mafic mineral looks like hornblende, possibly with some chlorite.
			Pg is ~50% of rock in "patches", probably phenocx up to 3cm in length. Small 1-3cm wide bands of pure pg.
			Small mm size books of bt locally
			This rock looks siliceous but probably not primary. Some small clear qz veins sub parallel to core.
			44.4-44.8 - Patchy section with very large pg, fragmented and partially sillicified. This unit reminds me of a funny textured troctolite in the Stillwater.
			46.3 - Small 3cm shear with chlorite and possibly sericite. White cb veins.
47.2	47.3	Layered gabbro to leucogabbro	Very altered section centered on a qz vein. Contacts are very sharp but look like alteration fronts.
			Vaguely more deformed at low angle with layering (almost perpendicular to core)
			Pg is cloudy and pale green - ser+ep alteration?
47.3	53.0	Layered gabbro to leucogabbro	Same as 43.4-47.2

96.2	97.6			Amphibolite	Ultramafic zone with medium-grained hornblende and some tabular to acicular actinolite oriented in weak foliation (~20o to perpendicular)	
					Small qz veins and silicification all through, trace sericite, no sulf	
					96.4 - Zone of strong silicification ~10 cm wide, pink to brownish color probably caused by bt	
					97.3 - Bt-enriched zone	
97.6	100.3			Medium-grained layered gabbro to melagabbro	Pg varies from none to 60% in different layers	
					Qz veins with sericite	
100.3	100.4			Coarse pyroxenite	Probably px cumulate	
					2% py+po+cpy interstitial, in veins and blebs	
100.4	101.0			Medium-grained amphibolite	Medium-grained mafic minerals with very coarse pg crystals (10%)	
					Tr of pink-brownish mineral (titanite?)	
101.0	106.8			Medium-grained melagabbro to gabbro	Mostly melagabbro, somewhat layered	
					Mafic mineral mostly hb (I think)	
					Pg up to 60%	
					Small qz and qz+ser veins	
					Tr titanite?	
106.8	108.0			Coarse-grained amphibolite	Small actinolite needles locally	
					Chl-rich areas	
					Locally flooded with qz	
					Some local brick color alteration mineral in small veins	
					Some small qz veins	
					Tr to 2% bt forming small bands	
108.0	118.2			Medium-grained melagabbro	1-10 cm layers formed by concentrations of pg crystals (0 to 35%)	
					Many small qz veins, some big ones	
					Some pale biotite and titanite?	
					110.3-111.4 - Drilling parallel to a qz vein	
					112.3-112.5 - Very silicified layer with anastomosing qz veins, could be anorthosite or just alteration zone.	
					113.6 - Small shear at 40o to perpendicular with ser and minor ep	
					113.6-113.8 - Qz vein parallel to core	
					116.4-116.8 - Coarser, more felsic section	
					117.2-117.3 - Altered, more foliated zone, pale green with ser, possible ep, dislocated qz+sulfide veins	
118.2	119.0			Fine ultramafic	Contains 2% sulfides, very fine disseminated po, py specks concentrated in foliation	

					Some tabular o acicular actinolite concentrated in small bands and aligned with foliation	
					Local very altered zones with sericitic bands with qz, particularly near down hole contact	
119.0	128.0			Medium-grained mela to leucogabbro	Mostly melagabbro, somewhat layered 10 to 15o to perpendicular	
					Contains actinolite	
					125.7 - Fibrous white mineral in vein where core broke	
					126.1-126.4 - More pyroxenitic zone with medium to coarse hb	
128.0	129.3			Very hard black siliceous alteration zone	Flooded with silica	
					Local bt+chl patches	
					Tr py+po+/-cpy	
					Tr titanite?	
129.3	133.7			Altered mixed zone grading into solid quartz	Not sure if big vein or near total replacement	
					Local sericite	
					133.0 - ~4cm section with 2% very small tourmaline in pure qz	
					133.3 - Ep vein with chl in middle	
133.7	134.5			Medium-grained gabbro	Locally coarse, fairly homogeneous section	
					Some very fine qz veins	
134.5	135.1			Layered coarse leucogabbro and amphibolite	Layers are 3 to 5 cm each	
					Tr 2 mm py cx in ultramafic	
135.1	135.6			Coarse-grained amphibolite	Foliated ultramafic zone	
					1-2% disseminated py, occasional 2mm py cubes	
135.6	136.7			Medium-grained gabbro	Similar to 133.7-134.5	
136.7	141.9			Shear zone	Flooded with qz, locally with ser and/or ep and/or chl, some bt-rich blebs	
					Possible small black tourmaline locally	
					Schistosity is crenulated locally	
					Orangy potassic alteration in qz-rich areas	
					Orange veins cut schistosity	
141.9	146.2			Amphibolite	Fine-grained at uphold contact but otherwise coarse-grained	
					Generally ~10% pg	
					Mafic mineral mostly hb (I think) with some chl and possible tr act	
					1% specks disseminated py	
					Foliation is fair to moderate	
					Qz-ser veins with titanite? near veins	
					Rock is generally very silicified	
146.2	162.0			Very coarse-grained gabbro	Large pg >1cm in size	

					Alteration and deformation vary a lot through this section	
					Layering of 1-2 cm mafic-rich and felsic-rich bands	
					146.2-146.8 - Black rock, mafic minerals are hb+act+chl	
					146.8-149.3 - Paler green, more silicified zone, becomes progressively more foliated down hole	
					149.3-150.3 - Black rock, strongly silicified, strong shear with bt+chl, small am needles floating in siliceous bands, posy more chl than hb generally	
					150.3-153.0 - Sheared, very altered zone, lots of ep-rich qz veins, other pinkish bt-rich zones, act is most abundant mafic mineral	
					152.8 Very fine gabbro "dike" with disseminated py, ~4cm wide,	
					153.0-154.0 - 1% fine disseminated py, similar to 150.3-151.0, alternating 1cm bands of fine mafic rock (am+bt+chl) with bands of pure clear qz	
					155.3 - 10cm wide anorthositic layer	
					158.4 - 4cm UM layer with coronated mt, 3mm titanite? and disseminated po+py	
					160.8-161.5 - Other zone of paler green altered rock, odd texture almost graphic, recrystallized to medium-grained	
					161.5-161.9 - Anorthositic layer, very siliceous, abundant pink bt at down hole contact	
162.0	163.2			Medium-grained melagabbro	Slightly layered, similar to previously described	
163.2	169.6			Very coarse-grained gabbro to melagabbro	Pg content varies from 10 to 40%	
					Mafic minerals are hb+chl+act	
					166.5-166.7 - Ultramafic zone with 3-4% po + tr cpy and other mineral (titanite?)	
169.6	170.0			Anorthosite?	Beige-brownish alteration	
					Multiple qz veins and silicification	
170.0	170.1			Coarse-grained gabbro		
170.1	170.5			Anorthosite		
170.5	170.9			Coarse-grained gabbro		
170.9	171.6			Anorthosite		
171.6	171.8			Pyroxenite	Best remnant of adcumulate texture seen so far	
					Coarse, chunky, 0.5 to 1cm pyroxenes now probably hb?	
					Interstitial material to px is bt, po, py and tr cpy	
					Great sample for thin section	
					Slight orientation at <20o to perpendicular but not strong	
171.8	172.8			Very coarse-grained melagabbro	Same as previously described	

172.8	173.1			Coarse-grained leucogabbro	Unusual recrystallized texture, almost graphic - photo looks like oikocrysts	
173.1	173.4			Very coarse-grained melagabbro	Similar to previously described	
173.4	173.6			Anorthosite		
173.6	173.7			Ultramafic rock	Small intersection with well developed actinolite needles	
173.7	176.0			Very coarse-grained melagabbro	Similar to previously described	
					175.0 - Small anorthositic band	
					175.0-175.3 - Well preserved mezocumulate texture, 10% pg, no sulphides except tr disseminated near down hole contact where sheared	
					175.7 - Small 1cm shear with py vein followed by 1cm wide hard, dark brown and glassy siliceous zone	
176.0	180.9			Coarse-grained leucogabbro	Same as 172.8-173.1, main difference is that pg-rich bands are more like a gabbro with granular texture	
180.9	181.2			Mafic dike	Probably metapyroxenite	
					Very-fine grained at contacts and large 2mm chunky pyroxenes? channelized in center of dike	
					Uphold contact is sharp and cuts large pg crystal	
					Abundant py at uphold contact (ring)	
					3% disseminated py, some following "veins" cutting across the orientation defined by grain-size difference from center to edges	
181.2	182.0			Very coarse-grained gabbro		
182.0	183.0			Anorthosite	There seems to be a zone of altered gabbro at both ends, which suggest that this unit may not be anorthosite but simply an alteration zone of some sort..	
183.0	190.3			Coarse-grained gabbro	Hb, chl, act, some bt	
					Oriented but not quite foliated	
					<10cm intersection of anorthosite near uphold contact	
					Fractures in large pg are filled with what looks like chlorite (not sure but dark green)	
					183.1 - Small shear filled with qz at 40o to perpendicular	
190.3	191.0			Anorthosite	Small ultramafic intersections in between (hb+act+titanite?+fibrous acicular mineral that could be talc?)	
					Hard to say grain size	
191.0	191.6			Coarse-grained melagabbro	Very dark green	
					Pg forms band of 1-3 cm	
					Large 10X4mm bt blebs and small disseminated	
					Possibly some chl	
					2% py cubes and disseminated near down hole contact	
191.6	192.0			Amphibolite	Somewhat more deformed, almost perpendicular to core	

					3% py cubes and small disseminated	
					Actinolite needles and chlorite	
192.0	193.2			Coarse-grained gabbro	Similar to 183.0-190.3, with grain size up to very coarse-grained	
					Dark green to black	
193.2	198.0			Coarse to very coarse-grained gabbro	Similar to previous but paler green, more pg and larger bands of anorthositic material	
					Mostly hb+pg about 50% each	
					Tr titanite?	
					Tr py	
					Some small sections have oikocryst-looking remnant textures	
198.0	198.6			Very fine-grained gabbro	Probably dike	
					5% disseminated py	
					Medium grey in color	
					Deformed	
					Small qz veins	
					Contacts are deformed at both ends but still looks like is dike	
					Py concentrates locally in band	
198.6	206.6			Coarse to very coarse-grained gabbro	Similar to 193.2-198.0	
					Banding near perpendicular to core	
					Local bt+py+titanite? Near vein	
					Local oikocryst-like texture	
					205.6 - Sheared with sericitic vein and titanite?	
206.6	207.5			Anorthosite	Compact and massive, similar to previously described	
					Both contacts are not too sharp	
207.5	209.4			Layered ultramafic and anorthosite	5-10 cm wide layers	
					UM is sheared and contains 3-4 mm veins of epidote +/- sericite	
					Most abundant mafic mineral is probably chl	
					Py + tr cpy concentrated in bands	
					209.2 - Ilmenite with leucoxene coronas on 8 cm UM intersection	
209.4	219.5			Medium to coarse-grained gabbro	Very granular and boring	
					Some sections almost sub-ophitic (not quite)	
					Homogeneous, undeformed, not layered	
					2 to 5 mm hb+pg ~50% each	
					Hairline qz veins with occasional sericite, some with displacement along thin shears	
					209.6-209.9 - 2 small intersections of anorthosite (4 cm), down hole contact of last is sheared and sericitic	
					209.9-210.3 - 1% disseminated py	
					210.4 - Small shear with displacement	

Drill Log

Company Name:	Northern Shield Resources	**DDH Number:**	06HB-04
Property Name:	Highbank Lake	**Collar UTMN:**	5806174
Location:	250 km north of Nakina, Onta	**Collar UTME:**	554197
	75 km northwest of Ogoki	**Zone, Datum:**	16, NAD83
Claim Number:	1180792	**Drilling Azimuth:**	335°
		Core Size:	BTW (BQ Thin Wall)
Drilling Contractor:	Cartwright Drilling	**Hole Length:**	267.6 m
Date of start:	16-Jun-06	**Logs by:**	Christine Vaillancourt, CCIC
Date completed:	20-Jun-06	**Core Storage:**	Warehouse in Hearst, Ontario

From	To	Rock Type	Description
?	63.5	Overburden	Pebbles of granitic rocks and very fine light grey rock (seds?) plus sub-crop pieces of gabbroic, very weathered rock.
63.5	65.2	Medium-grained melagabbro	Medium-grained (2-3 mm)
			Granular texture
			Dark green
			>60% hb, 10% mt, 30% pg
			Weak foliation at 45o
65.2	67.4	Medium-grained leucogabbro	<30% mafic minerals - actinolite+hb, 2% mt
			Weak foliation at 25o to perpendicular
			Concentrations of large 1cm pg near both ends of this intersection
			Tr to 1% disseminated py locally
67.4	71.2	Melagabbro to amphibolite	Strongly foliated
			Hb+act+pg, generally <1% mt
			Dark green rock, not sure about proportions of mafic to felsic minerals because pg is greenish.
			Very tiny hairline sericitic veins
			Rusty red alteration mineral? soft-scratches off
			69.5 - Odd intersection ~5cm with concentration of the rusty red mineral, mt and another pale green and tabular to polygonal mineral?
			69.9 - Only qz vein with py
71.2	74.2	Medium to coarse-grained leucogabbro	Intergranular texture
			Generally ~70% pg, 1% mt, rest hb
			Foliation is weak to moderate and at ~35o to perpendicular
			Sericite-filled fractures
			Tr py, disseminated or in qz veins

					Down hole contact is strongly silicified	
					72.6 - Zone of strongly sheared, crumbled core	
					73.0 - Small vein at low angle to core with sericite and chlorite, orange rusty hallo around vein	
74.2	76.3			Very coarse-grained gabbro	Somewhat layered (banded)	
					50-50 pg and hb	
					Py veins locally but rare	
					Unit similar to the very coarse-grained gabbro in 06-HB-03	
76.6	80.5			Fine to medium-grained magnetite-gabbro	Up to 15% mt, 15% actinolite and rest pg	
					Disseminated py	
					Weak to no foliation	
					Intergranular texture	
					Sericitic hairline veins	
					77.4 - Py-ser vein at slow angle to core	
					78.2-78.5 - Missing piece of core???	
					78.5-79.0 - Silicified zone	
					79.4-80.5 - Silicified zone	
					Down hole contact is strongly shear over ~10 cm.	
80.5	80.7			Magnetite-gabbro	>60% mt with <1mm veins of yellowy sericitic looking stuff, surrounded by dark green mineral that looks like serpentine? - has the softness. Possible serp also in rock (not just veins).	
80.7	81.8			Medium-grained magnetite-gabbro	Similar to 76.6-80.5	
					80.7-80.9 - Hard and silicified	
					Tr disseminated py	
					80.9-81.2 - More felsic, slightly larger grain size, one py-rich vein at low angle to core axis	
					81.3 - Py-rich "band", followed by crumbly core	
81.8	82.3			Magnetite-gabbro	Similar to 80.5-80.7	
					Crumbly core	
					Mt crystals up to 5mm but shattered	
82.3	83.5			Medium-grained magnetite-gabbro	Similar to 76.6-80.5	
					Down hole contact is intensely sheared over ~ 30cm, flacky chlorite schist with mt mostly concentrated in ribbons	
83.5	84.8			Intermediate feldspar porphyry	Must be a dike	
					Massive, but weak orientation of minerals at <15o to perpendicular	
					Fine ~0.5mm pg phenocx in a very fine light grey matrix.	
					Contains also what looks like books of muscovite as phenocx of similar size to pg	

					Mafic mineral is very fine bt, I think, <5%	
84.8	85.1			Medium-grained ultramafic	Mixture of bt, chl, possibly hb, actinolite needles abundant locally	
					Sheared and flacky	
					Tr disseminated py	
					0 to 10% mt	
85.1	85.3			Medium-grained hornblende-magnetite gabbro	40% hb, 40% pg, 10% mt, 10% chlorite	
					Intergranular texture	
					Pale green, I think has chloritic alteration	
					Mt content varies from 5 to 10%	
					Some sections with larger grain size are also more felsic	
					Bt-rich veins	
85.3	85.6			Medium-grained magnetite-gabbro	45% mt, 45% pg, 10% hb	
					Intergranular texture	
					Weak foliation defined by orientation of planar features, varies from perpendicular to ~30o to perpendicular	
					Pg is generally white to light green, especially near light green veins. Not sure what alteration is, not epidote-green, more like chlorite-green, but very fine.	
					Crumbly core in middle of this intersection	
85.6	87.6			Shear zone, alteration zone	Unsure of protolith(s)	
					Qz-epidote veins	
					Rusty orange potassic? alteration locally	
					Chlorite-py veins	
					Local crumbly core	
					One less messy intersection looks like dunite? Should sample for TS	
87.6	87.9			Medium-grained hornblende-magnetite gabbro	Similar to 85.1-85.3	
					Looks silicified	
					Chlorite-py veins	
87.9	88.1			Massive magnetite	With fractures filled by pale green material?	
					Texture is like shattered mt	
					Tr disseminated py and cpy	
88.1	88.7			Medium-grained magnetite-gabbro	Similar to 85.3-85.6	
88.7	88.8			Massive magnetite	Similar to 87.9-88.1	
88.8	88.9			Medium-grained magnetite-gabbro	Similar to 85.3-85.6	
88.9	90.2			Medium-grained hornblende-magnetite gabbro	Similar to 85.1-85.3	

					Grades into next	
90.2	92.5			Medium-grained magnetite-gabbro	Similar to 85.3-85.6	
					91.5 - Crumbly core	
92.5	95.7			Medium-grained hornblende-magnetite gabbro	Similar to 85.1-85.3	
					92.5-92.9 - More felsic and also silicified section, contains actinolite	
					92.9 - Small <5cm band of massive mt	
					93.1 - Small <5cm band of massive mt	
					95.0 - Small <5cm band of massive mt	
95.7	95.8			Medium-grained ultramafic	Similar to 84.8-85.1	
95.8	100.1			Medium-grained hornblende-magnetite gabbro	Similar to 85.1-85.3	
					Locally coarser	
					97.3 - Chl-py veins sub parallel to core	
					98.2 - Bigger qz vein with ep and brownish alteration?	
100.1	100.3			Medium-grained ultramafic	Similar to 84.8-85.1	
					Strongly foliated + crenulation of the foliation	
100.3	102.1			Medium-grained hornblende-magnetite gabbro	Similar to 85.1-85.3	
					Grades into next	
102.1	102.9			Medium-grained magnetite-gabbro	Similar to 85.3-85.6	
					Grades into next	
102.9	105.0			Medium-grained hornblende-magnetite gabbro	Similar to 85.1-85.3	
					Grades into next	
105.0	105.2			Massive magnetite	Similar to 87.9-88.1	
105.2	105.3			Medium-grained ultramafic	Similar to 84.8-85.1	
					Strong foliation	
105.3	106.7			Medium-grained hornblende-magnetite gabbro	Similar to 85.1-85.3	
					Strong foliation at down hole contact	
106.7	107.5			Medium-grained magnetite-gabbro	Similar to 85.3-85.6	
					106.8 - Shear	
					107.2 - Shear	
					107.4 - 1cm band of massive magnetite	
107.5	108.0			Medium-grained hornblende-magnetite gabbro	Similar to 85.1-85.3	
108.0	108.3			Medium-grained magnetite-gabbro	Similar to 85.3-85.6	

					Somewhat layered with 2-3 cm bands richer in mt (more mafic)	
					Specks of py and cpy	
108.3	109.4			Medium-grained hornblende-magnetite gabbro	Similar to 85.1-85.3	
					Grades into next	
					108.3-108.4 - Anorthositic band with nice 50-50 py+cpy in vein and disseminated	
					108.8-108.9 - More mafic and foliated	
109.4	110.3			Medium-grained magnetite-gabbro	Similar to 85.3-85.6	
					Somewhat layered with 2-3 cm bands richer in mt (more mafic)	
110.3	110.4			Medium-grained ultramafic	Similar to 84.8-85.1	
					Bt-rich and foliated	
110.4	111.0			Medium-grained hornblende-magnetite gabbro	Similar to 85.1-85.3	
111.0	111.1			Massive magnetite	Similar to 87.9-88.1	
111.1	111.2			Anorthosite	Chlorite veins with py and po?	
111.2	113.6			Medium-grained hornblende-magnetite gabbro	Similar to 85.1-85.3	
					Grades into next	
113.6	115.1			Medium-grained magnetite-gabbro	Similar to 85.3-85.6	
					Grades into next	
115.1	115.2			Massive magnetite	Similar to 87.9-88.1	
					Grades into next	
115.2	116.1			Medium-grained magnetite-gabbro	Similar to 85.3-85.6	
					Gets more hb-rich very gradually going down hole	
116.1	117.0			Leucogabbro with hb oikocrysts	This rock looks a lot like a pg cumulate (2mm) with 3-5 cm oikocrysts (originally px, now hb+mt)	
					Some orientation (weak foliation or layering) near perpendicular	
					116.3 - Py+cpy vein	
					116.6 - Py+cpy vein	
117.0	117.3			Layered leucogabbro - mt	Bands of massive mt in leucogabbro	
					Chl+bt veins	
					Py+cpy disseminated mostly in chloritic patches	
117.3	120.7			Medium-grained hornblende-magnetite gabbro	Similar to 85.1-85.3	
					Becomes progressively leucocratic down hole	
					4 cm mt band with py and cpy at down hole contact	
					Contact/layering at ~20o to perpendicular	
120.7	121.5			Anorthosite	Few cm sections enriched in hb+bt+act±chl	

121.5	123.6			Medium-grained hornblende-magnetite gabbro	Similar to 85.1-85.3	
					Generally ~1% disseminated py, local 3-6 mm py cubes	
123.6	124.3			Anorthosite	Patches of chlorite+sericite alteration	
					Gradual down hole contact	
124.3	126.2			Medium-grained hornblende-magnetite gabbro	Similar to 85.1-85.3	
					Qz-tm vein with py cubes near up hole contact	
126.2	126.3			Anorthosite		
126.3	127.1			Magnetite-gabbro	Different from previous	
					25% 1-2mm mt grains in a pale green, very fine matrix of chlorite? and well oriented actinolite needles	
					Orientation of foliation/layering at <10o from perpendicular	
					Very powdery unit	
					126.8 - Mt-free section, more foliated, almost talc-like softness	
127.1	127.3			Anorthosite		
127.3	129.8			Coarse-grained leucogabbro	65-70% pg >5mm in size, rest is hb, actinolite needles and possibly some chlorite. No mt, no sulf.	
					127.8 - 8 cm chloritized section	
					129.5 - Small 4 cm shear	
129.8	130.7			Medium-grained hornblende-magnetite gabbro	Similar to 85.1-85.3	
					Grades into more mt-rich going down hole, no real contact with following	
130.7	136.2			Medium to coarse-grained melagabbro	Deep green	
					Mt varies from 2% to about 10%	
					Foliation near perpendicular, varies from moderate to weak	
					132.5-133.4 - Section with anorthositic layers, tr py+cpy	
136.2	137.2			Fine to medium-grained magnetite-gabbro	More leucocratic than usual	
					Actinolite needles	
					Tr to 1% disseminated py+cpy	
					Qz+py+ long needles of tm near down hole contact	
137.2	137.6			Massive magnetite	Similar to 87.9-88.1	
					Tr to 1% py+rare cpy	
					Grades into following	
137.6	138.7			Medium-grained hornblende-magnetite gabbro	Similar to 85.1-85.3	
					Grades into following	
138.7	142.6			Medium-grained magnetite-gabbro	Similar to 85.3-85.6	

					Becomes progressively leucocratic down hole ~ from 140.5 except for last ~6 cm where mt gets coarser and more abundant	
					Disseminated py+cpy	
					140.5 - Strong foliation perpendicular	
					Down hole contact is very sharp (unusual)	
					142.6 - Chl-bt-py-cpy bleb	
142.6	143.1			Medium-grained hornblende-magnetite gabbro	Similar to 85.1-85.3	
					Disseminated py, some chl-rich blebs with large py and cpy	
					Weakly sericitized	
					Chl+act vein at down hole contact	
143.1	147.0			Feldspar porphyritic leucogabbro	Phenocx average 2mm and form ~15% of rock.	
					10-15% mafic minerals are small chl+bt (I think...)	
					Little to no mt	
					Mafic mineral somewhat oriented at ~0 to 20o to perpendicular	
					Very rare disseminated py	
					Hairline chl veins with py, local orangy alteration halos around vein	
147.0	147.1			Medium-grained ultramafic	Similar to 84.8-85.1	
					Center of intersection has channelized pg cx up 5-10 mm in size and bt blebs. Both sides are very fine grained and deep green.	
					No sulphides	
					Both contacts are sharp	
147.1	147.3			Massive magnetite	Similar to 87.9-88.1	
					> 1mm py near cubes form >1% of rock, possible tr of cpy specks	
147.3	147.8			Feldspar porphyritic leucogabbro	Similar to 143.1-147.0	
					Foliated	
147.8	148.0			Medium-grained magnetite-gabbro	Similar to 85.3-85.6	
					148.0 - Py+cpy+bt bleb	
148.0	148.8			Massive magnetite	Similar to 87.9-88.1	
					Some 1-2 cm intersections of foliated ultramafic	
					Local blebs of py+cpy+bt	
148.8	151.4			Medium-grained hornblende-magnetite gabbro	Similar to 85.1-85.3	
151.4	151.6			Medium-grained ultramafic	Similar to 84.8-85.1	
151.6	153.6			Medium-grained hornblende-magnetite gabbro	Similar to 85.1-85.3	
					Some fairly leucocratic sections	
153.6	153.9			Massive magnetite	Similar to 87.9-88.1	

153.9	154.6			Medium-grained magnetite-gabbro	Similar to 85.3-85.6	
					Down hole contact is 4 cm of massive magnetite	
154.6	157.0			Medium-grained hornblende-magnetite gabbro	Fairly leucocratic	
					155.6 - 1 cm band of solid mt	
					155.7-156.1 Py+cpy veins with chlorite	
157.0	157.1			Massive magnetite	Similar to 87.9-88.1	
157.1	158.1			Medium-grained hornblende-magnetite gabbro	Similar to 85.1-85.3	
					Local 1-2% disseminated py+cpy	
					157.6 - Small 3 cm mt band displaced by chlorite vein	
158.1	159.3			Magnetite-gabbro	Same as 126.3-127.1 (pale green)	
					Actinolite needles present where mt-poor and sheared	
159.3	160.0			Medium to coarse-grained hb-gabbro	Coarse and not magnetic near up hole contact, becomes progressively enriched in mt near 159.7 and back to coarse-grained, non-magnetic near down hole contact.	
					Grades into following	
160.0	160.5			Magnetite-gabbro	Same as 126.3-127.1 (pale green)	
					Progressive contact into following	
160.5	161.9			Medium-grained hornblende-magnetite gabbro	Similar to 85.1-85.3	
					160.7 - Small ultramafic intersection	
					160.8 - Small ultramafic intersection	
					161.0 - Small ultramafic intersection	
					161.2 - Small ultramafic intersection	
					161.9 - Small ultramafic intersection	
161.9	162.4			Medium-grained magnetite-gabbro	Similar to 85.3-85.6	
162.4	163.4			Medium-grained hornblende-magnetite gabbro	Similar to 85.1-85.3	
					162.7 - Small shear followed by a fold	
163.4	164.0			Medium-grained ultramafic	Similar to 84.8-85.1	
					Strong shear	
					Local actinolite needles	
					Local disseminated py	
164.0	164.7			Medium-grained hornblende-magnetite gabbro	Similar to 85.1-85.3	
					Leucocratic	
					Down hole last 30 cm of intersection is very strongly sheared	
164.7	170.8			Feldspar porphyritic leucogabbro	Similar to 143.1-147.0 with more phenocx	

Drill Log

Company Name:	Northern Shield Resources	**DDH Number:**	06HB-05
Property Name:	Highbank Lake	**Collar UTMN:**	5807206
Location:	250 km north of Nakina, Onta	**Collar UTME:**	553718
	75 km northwest of Ogoki	**Zone, Datum:**	16, NAD83
Claim Number:	1180792	**Drilling Azimuth:**	335°
		Core Size:	BTW (BQ Thin Wall)
Drilling Contractor:	Cartwright Drilling	**Hole Length:**	325.6 m
Date of start:	21-Jun-06	**Logs by:**	Christine Vaillancourt, CCIC
Date completed:	12-Jul-06	**Core Storage:**	Warehouse in Hearst, Ontario

From	To	Rock Type	Description
0.0	63.8	Overburden	
63.8	68.6	Coarse-grained gabbro	35% hb, 65% pg
			Weak sericitization locally
			Rare tr py
			Not sure about texture name... hb is interstitial to pg that has no specific shape
			Some chl-rich hairline veins with sericite ± little ep
			No real foliation or layering
68.6	68.7	Anorthosite	~3% chlorite (I think, very small, could be hb)
			Massive
			Could be a xenolith but DH contact looks somewhat primary
			1 - 7X2 mm bleb of py
68.7	73.4	Medium-grained gabbro	Grain size ~2 mm
			50% hb, 50% pg
			More granular texture
			Fine chl veins and qz-ep veins
			Occasional specks of py
			70.9-71.2 - Deeper green section, could be cpx remnants, slightly coarser, more mafic, crumbly core, possibly some alteration (ser?) on pg
			73.0-73.4 - Crumbly core, marker with word "wash" on marker bloc?
73.4	73.6	Fine-grained gabbro	Dike
			Down hole contact is intrusive, up hole contact is 1 cm shear
73.6	74.2	Medium-grained gabbro	Same as 68.7-73.4
74.2	87.7	Coarse to medium-grained gabbro	Similar to previous except for a slight orientation at ~35o to perpendicular
			Varies from coarse to medium, and is more or less leucocratic but changes are progressive (can't put actual contacts)
			Qz veins, irregular and discontinuous, 1 cm to hairline
			77.3 - Py-rich vein

					77.6 - Shear, crumbly core and whiter pg, some chl and ep	
					77.7-78.0 - <1% 1-2 mm specks of py	
					78.2-78.4 - Mixed zone of chl and qz veins with some foliation along 5-6 cm bands, contact foliated to non-foliated is very sharp	
					79.4-80.5 - More leucocratic zone	
					83.5-86.0 - Coarse-grained, more melanocratic section, pg and hb are more polygonal, deeper green, could be cpx remnants as 70.9-71.2.	
					Foliation starts at ~87.6	
87.6	88.5			Green mud and crumbles	I guess fault zone	
88.5	88.8			Metapyroxenite	Hb (could be cpx remnants) ±act, bt, chl	
					Some pg but seems mostly concentrated in small bands	
					Py cubes ~ 2mm and cubic holes	
					Very foliated all through, no signs of a lineation at face perpendicular to foliation (where core breaks), pure shear-like... odd	
88.8	90.2			Hb-bt gabbro	Strongly foliated and chlorite-altered	
90.2	90.9			Ultramafic rock	Very fine grained, I think is mostly actinolite + chlorite	
					Contact with following is sheared and crumbly	
90.9	91.7			Very fine-grained leucogabbro-diorite	Dike	
					Not sure about mafic minerals but I think chl+bt (very fine), <10%	
					Small fractures with beige alteration halos	
					Not really foliated	
					Occasional very small pg phenocx	
					Down hole contact is bt + sulfides all sheared	
91.7	98.2			Medium-grained gabbro to leucogabbro	35% hb, 65% pg, no bt, no sulf	
					Granular	
					Slight foliation at <15o to perpendicular	
					Some veins with chloritic shears, silicification around qz veins	
98.2	124.1			Coarse-grained leucogabbro	~30% hb+chl generally, down to 20% in areas, local actinolite needles	
					Rare specks of py, some in qz veins	
					Small 1-2 cm shears @ ~35o to perpendicular where more mafic (even ultramafic)	
					Blebs of pinkish bt locally	
					112.2 - Shear zone, 7 cm, ~15o to perpendicular, chloritic with py in veins, sericite, bt and possibly fine ep	
					112.8-112.9 - Similar zone, pink-orange alteration @ 112.9 on what was probably pg	
					113.4 - Similar shear ~8cm, contains py	
					114.4 - 1 cm shear with py cubes	

					116.1 - Similar shear, rubbly core	
					117.3 - 6 cm qz veins with chl at down hole contact	
					121.1 - 2 cm zone of beige-greenish (ser-ep?) and local pink alteration	
					12.5-123.0 - 1 cm qz vein almost parallel to core, zone of pale green-being to salmon alteration stronger at down hole contact	
124.1	124.3			Very fine-grained gabbro	Dike	
					Foliation mostly shown by alignment of ~2% disseminated py	
					Both contacts are sheared	
124.3	137.0			Coarse-grained leucogabbro	Similar to 98.2-124.1	
					2-5% pinkish biotite	
					125.7 - 1 cm shear, similar to previously described	
					127.0 - 1 cm shear, similar to previously described	
					128.2 - patch of anorthosite	
					129.5 - Small shear	
					130.0-130.7 - Strong shear zone, very siliceous chloritic bands, also biotite and sericite bands	
					131.0-131.1 - Multiple chloritic small shears perpendicular to core, some with py, one with a large bleb, drag fold in foliation	
					134.4-134.8 - Chloritic-biotitic band with py, cpy and po	
					Shear zone, silicified, bt-rich, ± sericite, perpendicular to core	
					136.0-136.1 - Shear zone, silicified, bt-rich, ± sericite, perpendicular to core	
137.0	137.4			Anorthosite	Up hole contact is biotite-rich shear, down hole contact is gradual	
					Massive	
					Some pinkish biotite	
					Some sericitization locally	
137.4	137.5			Coarse-grained melagabbro to gabbro	2 mm books of biotite	
					Look like anorthosite xenoliths in middle of section	
137.5	137.8			Anorthosite	Same as 137.0-137.4	
					Buff brown alteration bands	
					Contacts are irregular, could be xenolith	
137.8	138.0			Coarse-grained melagabbro	Sericitized	
					Chlorite+sericite veins parallel to core axis, goes through this and following unit displacing the contact	
138.0	138.4			Anorthosite	Same as 137.0-137.4	
					Py-rich patches, seem associated with alteration	
138.4	139.9			Medium to coarse-grained gabbro	Medium-grained grading into coarse-grained gabbro	

					5-10 cm whiter irregular patches of sericite alteration with some biotite	
139.9	140.3			Anorthosite	Same as 137.0-137.4	
140.3	142.2			Coarse-grained gabbro to leucogabbro	Similar to 98.2-124.1	
142.2	143.0			Anorthosite	Pale green, very massive	
					2-3% patches of chlorite and buff brown veins with biotite	
					Down hole last 30 cm grades into coarse-grained leucogabbro with chlorite patches	
143.0	144.6			Medium-grained leucogabbro	35% hb+chl	
					Local possible remnant texture of pg cumulate	
					143.80 - large qz vein (4cm)	
144.6	144.8			Anorthosite	Massive	
					Pale with 1-2% patches of chl+bt+ser	
					Up hole contact is broken but down hole looks gradual	
144.8	145.9			Medium-grained gabbro	Same as 68.7-73.4	
145.9	146.0			Anorthosite	Same as 137.0-137.4	
146.0	147.5			Medium to coarse-grained gabbro	Looks "banded", possible rhythmic layering of pg-rich bands about 1 cm wide	
147.5	147.9			Shear zone	Very strong shear	
					Biotite-rich, chlorite-rich and sericite-rich bands	
					Shear is crenulated	
					Contacts are gradual	
147.9	154.6			Medium to coarse-grained leucogabbro to gabbro	Same as before	
					148.3 - 6 cm anorthositic patch with chlorite blebs	
					148.5 - 2 cm same as above	
					150.0 - 2 cm same as above	
					151.4-152.2 - Coarse-grained, very leucocratic	
					153.2 - 5 cm shear	
					153.5 - 6 cm mafic zone, probably pyroxene cumulate, now hb, partially altered to chlorite and possible actinolite	
154.6	155.7			Coarse-grained, rhythmically layered gabbro	Layering ~2-4 cm	
					Small traces of py	
					155.6 - Small mm shears	
155.7	155.9			Metapyroxenite (amphibolite) to metagabbro	Looks like orthocumulate, now all hb with pg	
					Gradual contacts at both ends	

155.9	156.8			Medium to coarse-grained leucogabbro	Vague layering defined by leuco and mezogabbro and/or grain size, at ~20o to core	
					156.1 - 2 small bands of pg	
					156.4-156.5 - Very coarse hb followed by anorthosite	
156.8	160.4			Coarse rhythmically layered leucogabbro	Rhythmic layering by pg-rich and hb-rich at ~20o to perpendicular	
					Tr biotite	
160.4	160.5			Anorthosite	Contacts look like layering	
160.5	160.7			Coarse rhythmically layered gabbro		
160.7	160.9			Shear zone	Chloritic, some pg left, very small tr py	
160.9	161.1			Medium-grained leucogabbro		
161.1	161.3			Ultramafic rock	Pale green, fine grained chlorite+actinolite,	
161.3	161.5			Medium-grained leucogabbro	Foliated	
161.5	161.7			Ultramafic rock	Pale green, fine grained chlorite+actinolite, center is mt-rich	
161.7	162.2			Medium-grained gabbro	Foliated	
					1-5 cm intersections of pale chloritic material	
162.2	162.5			Ultramafic rock	Mt-rich, looks like some of the sections in hole 06HB-04	
162.5	162.6			Coarse-grained leucogabbro		
162.6	162.7			Ultramafic rock	Less deformed, no mt, possibly metapyroxenite	
162.7	164.3			Coarse-grained leucogabbro	Small <5 cm intersections of chloritic material	
164.3	164.5			Ultramafic rock	Chloritic	
164.5	167.4			Coarse to medium-grained leucogabbro	Local shear zones of melagabbro (~3-4 cm)	
167.4	167.7			Ultramafic rock	Chloritic, tr py	
167.7	168.4			Rhythmically layered leucogabbro to melagabbro	leucogabbro bands ~5 cm and melagabbro ~3 cm	
168.4	169.1			Coarse-grained leucogabbro		
169.1	169.4			Ultramafic rock	Chloritic, tr to 1% py, mt	
169.4	174.8			Coarse-grained leucogabbro	Starts to get a bit rhythmically layered at ~173.0 and grades into following	
174.8	175.5			Rhythmically layered leucogabbro to melagabbro	2 cm layers	
175.5	176.2			Medium to coarse-grained leucogabbro	Metapyroxenite-looking texture with chunky hb - px pseudomorphs?	
176.2	176.6			Coarse-grained leucogabbro		

176.6	177.0			Anorthosite	Similar to previously described	
					Patches of buff brown alteration also with sericite and chlorite	
					Down hole contact is particularly altered	
177.0	179.5			Rhythmically layered gabbro	1-3 cm bands of anorthosite and melagabbro	
					178.6-179.5 - Patches of beige-brown alteration	
179.5	179.8			Medium-grained leucogabbro	Locally patchy, possible px oikocryst pseudomorphs, now hb	
179.8	180.3			Layered anorthosite to *metapyroxenite*	Anorthosite ~5-7 cm, metapyroxenite ~3 cm	
180.3	180.7			Medium-grained gabbro		
180.7	181.3			Fine-grained diorite	Dike but appear more foliated?? at 25o to perpendicular	
					Contacts seem sharp but hard to be sure because broken core	
					I think it is same as previously described porphyry but without too many *phenocx visible*	
181.3	182.7			Very coarse leucogabbro	Pg-hb, gets somewhat "patchy" near down hole contact, looks gradational (layering)	
182.7	186.2			Medium-grained gabbro	Small 1-3 cm wide intersections of metapyroxenite	
					185.8 - Small shear (5 mm)	
186.2	189.5			Medium-grained melagabbro to gabbro	185.35 - Metapyroxenite section	
					Weak foliation at 10o to perpendicular	
					Very small shears with sericite and biotite concentrated in more mafic sections	
					188.3 - Metapyroxenite section	
189.9	190.0			Anorthosite	Unclear contacts, could be fragments	
190.0	192.1			Medium-grained gabbro to leucogabbro	More mafic sections are more foliated, which gives the rock a "banded" look	
192.1	194.9			Coarse-grained gabbro	Rhythmically layered generally	
					Some pg look shattered with mafic minerals (fine dk chlorite?) crystallizing in fractures	
					192.55 - Small shears	
					194.0 - 4 cm qz vein, py near	
194.9	195.0			Pegmatitic gabbro	~50% hb, 50% pg, tr bt, tr py	
					Chunky hb 0.7-1 cm	
					Layering is perpendicular to core	
195.0	196.3			Coarse-grained gabbro	Same as 192.1-194.9	
196.3	196.5			Medium-grained leucogabbro	Pg cumulate, <20% mafic minerals (hb±chl)	
					Gradual contacts	
196.5	197.1			Coarse-grained gabbro	Same as 192.1-194.9	

197.1	205.0			Medium-grained gabbro	Hb-pg-act	
					Tr sericite alteration	
					Small shears	
					197.1 - Small fault displacing pg-rich horizon	
					197.4-197.6 - More melanocratic section with 1-2 mm amoeboidal ilmenite with leucoxene coronas	
					198.8 - 2 cm shear	
					198.8-200.6 - Shear zone	
					200.9 - 3 small shears	
					200.3 - Chlorite-filled shear perpendicular to layering (~35o to perp.)	
					203.5 - Small shear perpendicular to layering	
					204.3 - More melanocratic section	
205.0	205.2			Very fine-grained gabbro	Dike	
					Deep forest green	
					1% fine disseminated py	
205.2	212.0			Medium-grained gabbro	Same as 197.1-205.0	
					205.2-205.9 - Weak layering <10o to perpendicular	
					206.8 - 2 cm very fine-grained gabbro (diklet?)	
					207.8 - 1 cm small shear, chlorite-rich <10o to perpendicular	
					208.0 - Shear < 1cm chloritic, perpendicular to core	
					208.1 - Shear < 1cm chloritic, perpendicular to core	
					208.8 - bt+chl shear <10o to perpendicular	
					209.2 - Shear, chloritic, 30o to perpendicular	
					209.3 - Shear, chloritic, 30o to perpendicular	
					209.6-212.0 - Moderate foliation defined by mafic minerals, perpendicular to core	
212.0	212.3			Coarse-grained gabbro	Rhythmically layered by 1cm bands of mafic and felsic	
					~50% pg, 50% hb with some bt	
212.3	212.5			Medium-grained gabbro	Same as 197.1-205.0	
212.5	212.8			Very fine-grained diorite	Intermediate to felsic dike	
					Possibly the porphyry but phenocx are rare and small	
212.8	215.2			Medium-grained gabbro to melagabbro	Same as 197.1-205.0 except for some sections that are strongly chloritic and foliated at ~10o to perpendicular	
215.2	215.4			Coarse-grained gabbro	Same as 212.0-212.3	
215.4	216.1			Medium-grained gabbro	Same as 197.1-205.0	
					215.8 - Shear 25o to perpendicular	
216.2	218.1			Shear zone	Mixed of fine-grained gabbroic rocks, possibly dike and medium to coarse-grained gabbro.	
					Broken slices of core	
					Shear perpendicular to <10o to perpendicular	
					The very fine grained gabbro contains 2-3% fine py	
					Some larger py cubes	

					4-5 mm biotite-rich bands	
					1-2 cm chloritic bands	
218.1	219.9			Layered medium-grained melagabbro to pyroxenite	5-10 cm pyroxenite sections distributed irregularly with progressive contacts	
					218.2 - 5 cm pyroxenite intersection	
					218.5 - 7 cm pyroxenite intersection	
					218.9 - 3 cm pyroxenite intersection, sheared	
					219.3 - 5 cm pyroxenite intersection	
219.9	222.1			Leucogabbro	Pg cumulate, <230% mafic minerals (chl±hb)	
					Pg is more beige colored particularly near fractures/veins	
222.1	225.0			Layered medium-grained melagabbro to pyroxenite	Same as 218.1-219.9	
					Layering variable, between 10 and 45o to perpendicular	
					222.4-222.5 - Pyroxenite, 3 cm	
					223.0 - Pyroxenite, foliated, 3 cm	
					223.2 - Chl-ep-qz vein, ~parallel to core, large 1 cm chlorite	
					223.3 - Pyroxenite, foliated, 3cm, foliated	
					223.9 - Pyroxenite, 10 cm	
225.0	225.4			Very fine porphyritic diorite	Dike, same as 212.5-212.8 but with 20% 1mm pg phenocx	
					Purplish grey	
					Mafic mineral is fine biotite	
225.4	227.4			Coarse-grained gabbro	Rhythmically layered, same as described before	
					226.6 - Qz vein and chlorite veins	
					Last 30 cm is sheared in bands	
227.4	227.6			Medium-grained gabbro	Altered section around 1 cm qz vein	
227.6	228.1			Pyroxenite	Larger section than usual	
					Looks like px cumulate	
					Tr py and ilmenite with the leucoxene coronas	
228.1	239.5			Medium-grained gabbro	Same as before	
					Foliation is variable, 10-50o to perpendicular	
					Local large biotite blebs	
					230.3 - Small shear	
					232.1 - Small shear, 1 cm, 10o to perpendicular	
					232.2 - Small shear, 1 cm, 45o to perpendicular	
					237.8 - 8 mm qz vein with altered halo around	
239.5	240.8			Very fine diorite	Dike	
					10% biotite, some 1 mm pg phenocx, mostly ghost-like	
					Many fractures with alteration halos of sericite and K alt?, local ep patches	
240.8	244.3			Medium to coarse-grained gabbro	Lots of small qz+chl small veins and small chlorite shears and zones of white-beige alteration	
					Local big blebs of biotite	

244.3	248.4			Shear zone-alteration zone	Probably medium to coarse-grained gabbro from less altered sections	
					Lots of crumbly core, where not crumbly, very strong shear	
					Silicification, chloritization, carrot orange (K?) alteration, epidote-rich zones around big veins	
248.4	249.7			Medium-grained leucogabbro	Looks like pg cumulate	
					~25% mafic minerals	
					Altered, creamy white pg, silicification+chlorite from veins	
					Weak fabric almost perpendicular to core, not sure if foliation or layering	
					Last 20 cm is fine=grained	
					Pure pg bands 1 cm wide	
249.7	251.9			Medium-grained gabbro	Same as before	
					Weak to moderate foliation at 20o to perpendicular	
					Crumbly core around qz veins	
					Silicification and ep-K alteration	
251.9	253.1			Medium to coarse-grained leucogabbro	Altered, silicification, chlorite, sericite	
253.1	254.0			Alteration zone	Crumbly core, qz veins	
254.0	263.2			Medium to coarse-grained gabbro	Plagioclase cumulate looking on some sections	
					254.3 - Qz vein	
					254.45 - Coarse-grained band ~3 cm	
					254.65-254.75 - Anorthositic section or just alteration zone, pink K alteration and green epidote, sharp contacts	
					255.0 - Ultramafic section, sheared to very fine-grained	
					251.3-251.4 - Ultramafic section, sheared to very fine-grained, crumbly core	
					251.8-260.0 - Qz-chl veins making core very crumbly	
263.2	263.5			Anorthosite	Or could be alteration zone? Sort of alteration halos around section	
263.5	264.4			Medium-grained melagabbro to pyroxenite	Chunky px? 2-3 mm with ~15% pg	
					Veined and deformed at down hole contact	
264.4	268.6			Medium-grained gabbro	Same as before	
					268.3 - Chloritic bands with brown minerals in white coronas	
268.6	268.9			Very coarse-grained anorthosite	Poikilitic mafic "blebs" over 1 cm	
					Up hole contact is progressive, down hole contact is hairline shear	
268.9	269.5			Medium-grained gabbro		
269.5	270.4			Anorthosite	Same as above, with poikiolitic blebs	
					Qz veins with silicification locally, also local pinkish alteration	

270.4	270.8			Coarse to medium-grained gabbro	Progressively grading into next	
270.8	271.0			Anorthosite		
271.0	274.0			Medium to very coarse-grained leucogabbro	Primary cumulate texture preserved	
					Layering defined mostly by grain size variation and also by pg-hb proportions	
					Large blebs of biotite in very coarse-grained sections	
					272.1 - Very coarse-grained	
274.0	278.2			Medium-grained gabbro	Weak foliation at 15o to perpendicular	
278.2	281.5			Dioritic porphyry	Dike	
					Veined, as previously described	
281.5	282.7			Medium-grained leucogabbro	~20% mafic minerals are biotite and chlorite	
					Beige alteration?	
					281.8-282.1 - Massive milky white qz vein with fine bt at contacts	
					282.3-282.7 - Zone of strg g silicification, almost all qz with bt-rich veins	
282.7	286.5			Dioritic rock	Same as porphyry but phenocx-poor	
					Qz veins, large one at 285.4-286.6	
285.5	286.8			Medium-grained gabbro	Mafic mineral is hb	
					Sericitized	
286.8	288.3			Anorthosite	Sericitized	
					Bt-chl-rich bands at 35o to perpendicular	
					Pinkish and epidote-green alteration locally	
					Qz-bt veins	
288.3	288.5			Medium to coarse-grained melagabbro	65% mafic minerals are hb and chl	
288.5	288.8			Anorthosite	Purplish remnants of magmatic pg crystals	
288.8	289.4			Medium-grained gabbro	Rhythmically layered, 1 cm pg-rich or hb-rich, <30o to perpendicular	
289.4	289.9			Anorthosite	Some 1 cm hb-rich bands	
289.9	290.8			Medium-grained gabbro	Rhythmically layered, same as described before	
290.8	291.2			Very fine-grained gabbro	Dike	
					large py vein about 1 cm average near up hole contact	
					Sharp contact	
291.2	291.8			Anorthosite	Very altered at up hole contact	
291.8	294.5			Coarse to very coarse-grained gabbro	Locally more banded, otherwise massive	
					272.3 - 10 cm shear zone with qz vein and bt enrichment	
294.5	294.8			Coarse-grained leucogabbro	Altered areas, epidote patches	
294.8	295.4			Medium-grained gabbro		

295.4	295.9			Coarse-grained gabbro	Hb is mafic mineral	
					Qz-chl veins, local epidote	
295.9	296.4			Anorthosite	3-4 cm mafic patches, possible oikocrysts (or fragments?) concentrated in middle of intersection	
					Contacts are vague	
296.4	314.4			Coarse-grained gabbro	Hb and pg	
					Texture varies through intersection, get more or less rhythmically layered-looking or hornblende is chunkier instead of interstitial (possibly cpy)	
					296.5-296.7 - Pale green epidote and pink (K?) alteration around veins	
					297.0-297.7 - Rhythmically layered, not too well defined	
					297.7-297.9 - Very strong epidote and pink (K?) alteration	
					299.4-299.5 - Pegmatitic gabbro with specks of py in mafic phases	
					301.4-301.5 - Anorthositic layer and very coarse-grained pyroxenite with tr of py	
					307.9-308.5 - Zone of massive epidote and K alteration	
					310.5 - 3 cm anorthosite band with displacement along hairline fault, specks of py in fault	
					310.8-311.0 - Small 2 cm pyroxenite intersection, very fine-grained, py specks	
					311.2-314.4 - Strong alteration zone - lots of sericite and bt disseminated and in patches, tr disseminated py	
					313.3 - 5 cm of massive biotite with py cube	
314.4	321.7			Medium-grained gabbro	Very massive and homogeneous	
					Rare disseminated py	
					319.0 - 3 cm chloritic shear	
					319.9 - 1.5x0.5 cm chloritic patches with epidote alteration near, looks like xenolith	
					320.5 - Biotite-rich discontinuous bands	
					320.9-321.0 - Biotite-rich discontinuous bands	
321.7	322.0			Very fine-grained gabbro	Dike	
					Contains >1% disseminated py	
					Contacts are veined and altered - up hole is few mm shear, down hole is 7 cm strong shear with qz forming ribbons, continuing in following unit	
322.0	322.9			Medium to coarse-grained gabbro		
322.9	323.6			Medium to fine-grained melagabbro	From medium-grained to fine-grained progressively down hole	
					Contacts are vague, not gradational but not cutting	
323.6	325.6			Medium-grained gabbro	323.7-323.8 - Qz+ep+ser altered area	

					323.8 - Pg-rich with py-rich patch	
					323.9 - Qz+ep+ser altered area	
					323.9-324.2 - 5 mm qz vein parallel to core	
					324.1 - Qz+ep+ser altered area	
					324.2-324.3 - Qz+ep+ser altered area	
					324.6 - Qz+ep+ser altered area	

Drill Log

Company Name:	Northern Shield Resources	**DDH Number:**	06HB-06
Property Name:	Highbank Lake	**Collar UTMN:**	5806578
Location:	250 km north of Nakina, Onta	**Collar UTME:**	554009
	75 km northwest of Ogoki	**Zone, Datum:**	16, NAD83
Claim Number:	1180792	**Drilling Azimuth:**	332°
		Core Size:	BTW (BQ Thin Wall)
Drilling Contractor:	Cartwright Drilling	**Hole Length:**	207.8
Date of start:	14-Jul-06	**Logs by:**	Christine Vaillancourt, CCIC
Date completed:	16-Jul-06	**Core Storage:**	Warehouse in Hearst, Ontario

From	To	Rock Type	Description	
	53.8	Pebbles	Wide variety, no chromitite or interesting looking ultramafic	
53.8	56.0	Medium to coarse-grained gabbro	Hb+pg but from 54.5, hb altered to biotite and possibly some chlorite	
			Pervasive sericite alteration, strongly silicified particularly @ beginning of hole	
			53.8-53.9 - Very strong silicification	
			54.7-55.1 - Very strong silicification with ser and ep also, possibly on more anorthositic section	
			55.2 - Weak foliation at 45o to perpendicular	
			55.7-56.0 - Stronger foliation @ 30o to perpendicular, very strong sericitization, also ep.	
56.0	57.7	Alteration/shear zone	Biotite-chlorite rich, locally sulfides, also pervasive silicification and variable intensity of sericitization	
			Unsure of protolith, could be more mafic than previous	
			57.1 - Qz vein with halo of silicification and sericitization, some chl.	
			57.3 - 5 cm qz vein	
			57.1-57.6 - Very strong biotite alteration, very strong shear, local py cubes in biotite bands.	
57.7	60.8	Coarse-grained gabbro	Somewhat layered from mela to leuco	
			Mafic minerals mostly hb (I think), specks of bt and possibly some chlorite	
			Many 2-3 mm chloritic veins all ~ perpendicular to layering	
60.8	61.4	Pyroxenite	Chunky hb (possible leftover cpx?) 2-4 mm, deep green	
			Rare specks of py	
			Weak orientation (not sure if foliation or layering) at ~30o to perpendicular	
			Down hole contact is 3 cm shear perpendicular to fabric	
61.4	62.6	Coarse-grained gabbro	Same as before, mostly mezogabbro	
			Foliation/layering at >45o to core	

					Down hole contact is qz vein	
					61.1 - Sheared (perpendicular to core) and altered area	
					62.5 - K alteration and chlorite veins	
62.6	63.4			Pyroxenite	Same as before	
					Up to 15% pg	
					63.4 - Qz vein with halo of ser+ep	
63.4	68.4			Coarse-grained gabbro to leucogabbro	Fabric orientation varies from 30 to >60o to perpendicular	
					63.7 - 5 mm qz vein	
					64.9 - 2 cm qz vein with ep alteration, bit of bt at down hole contact	
					65.2 - 4 cm sericitic band with minor ep+chl	
					65.3-65.8 - Coarser, more leucocratic section with fabric >60o to perpendicular	
					65.9 - Small bt-rich shears with qz	
					66.1-67.0 - Strong shear zone, nothing recognizable	
					Different sections are altered differently: brown: bt-rich, dark green: chl+ser, pale green: ep+qz+chl (this typically around qz veins)	
					67.5-68.4 - Similar shear zone but no qz veins	
68.4	68.9			Feldspar porphyry	Dike	
					> 15% 1-2 mm pg phenocx	
					~10% bt	
					Foliation at ~25o to perpendicular	
					Tr py cubes	
68.9	70.1			Coarse-grained gabbro	Altered similarly as previously described, most abundant is chloritic alteration	
					69.1 - 4 cm porphyry dike	
					69.4 - 7 cm porphyry dike	
70.1	71.3			Feldspar porphyry	Same but not really foliated	
71.3	72.4			Coarse-grained gabbro	Mixed zone, very altered as previously described	
					Small porphyry dikes through	
					Contacts are sheared	
					71.7 - >10 cm qz vein with ep-chl-bt alteration around	
					72.2 - 3 cm qz vein	
72.4	72.9			Feldspar porphyry	Qz veins and shear at down hole contact, shear at up hole contact	
72.9	75.0			Coarse-grained gabbro	Massive but bt-chl alteration is pervasive	
					Orientation of foliation/layering is ~40o to perpendicular	
					Whiter, more chloritic and medium-grained near down hole contact	
75.0	92.0			Feldspar porphyry	Same as previously described	
					Moderate foliation but not particularly altered in any way	
92.0	93.1			Ultramafic rock	Chlorite-actinolite schist sections, could be pyroxenite	
					Sections with recognizable gabbroic texture with actinolite needles.	
					Either the schist has ultramafic protolith or is strongly chloritized???	

					Py cubes locally, mostly in the chlorite-actinolite schist	
					92.2 - 8 cm porphyry dike	
93.1	94.5			Porphyry	Somewhat different from previous with very, very fine matrix and less phenocrysts (<10%)	
					Same shade of purplish grey, probably related to other described porphyry but slightly different phase	
94.1	97.2			Coarse-grained gabbro	Same as before	
					Mafic minerals I think are mostly chlorite and actinolite	
					94.8-95.1 - Chlorite schist with 1% py, bright green shade, could have other mineral I don't recognize	
					95.1-95.5 - Strong silicification and biotite alteration, qz chlorite vein	
					Down hole contact is sheared and sericitized	
97.2	97.8			Porphyry	Same as previously described	
					White-beige veins	
97.8	101.0			Coarse-grained gabbro	I think mafic minerals are hb+chl	
					Sort of banding, possibly superimposition of deformation on weakly defined rhythmic layering - more mafic absorbs more deformation	
					Number of small biotite-rich sheared areas	
					Some sericitic hairline bands	
					Some chloritised bands	
					99.8 - 99.2 - Strong shear and silicification with biotite and chlorite	
					100.5-100.7 - Strong shear and silicification with biotite and chlorite	
					100.8 - 8 cm porphyry dike	
					100.9-101.0 - Strong shear and silicification	
101.0	101.6			Porphyry	Similar to first described	
					101.4 - Biotite vein with py cubes	
101.6	113.7			Coarse to medium-grained gabbro	Same	
					102.4-103.0 - Strong silicification and chloritisation, loss of all texture	
					103.0-103.3 - Abundance of sheared chloritic bands	
					103.3-104.0 - More medium-grained that rest	
					104.4 - Abundance of sheared chloritic bands	
					106.45-106.6 - Qz vein with pyrite and molybdenite - true width is ~6cm, 5X5 cm py patch, moly mostly in one flat band	
					107.6 - 1 cm qz vein	
					108.0-108.2 - Large irregular chlorite-qz veins	
					108.9-109.0 - Biotite-chlorite "veins", look like material is injected in gabbro, ripping off pieces of it	
					109.9-110.2 - 1 cm fine gabbro vein sub parallel to core	
					110.2-110.3 - Pegmatitic gabbro, 40% hb and 60%	

					112.0-112.3 - Odd textured section with fine-grained matrix and a few floating shapeless pg glomerocrysts? Contacts are not clear because altered - could be dike or even fragment but probably not	
113.7	114.5			Quartz vein	Milky	
					No py, one section in middle of very altered gabbro	
					Sericite-chlorite, try cb, tr ep, tr fine molybdenite	
114.5	116.6			Coarse-grained gabbro	Up hole contact with qz vein is altered with chlorite and orangy color	
					115.6 - Shear with chlorite and sericite	
					115.8-116.6 - Sheared folded zone, unusual for these rocks, no idea??? Qz-chl-bt-ser; could be fragment, contacts unclear	
116.6	120.9			Porphyry	Same as previously described	
					Foliation and alteration vary	
					Strong shear near down hole contact, hairline fracture with orange alteration halos	
					116.7 - 10 cm piece of previous	
120.9	121.6			Very coarse-grained gabbro and porphyry	Contact zone	
					Tr py in porphyry	
121.6	123.9			Very coarse-grained leucogabbro	10% biotite, 2-3% chlorite, tr py cubes, rest is pg	
					Areas have almost a brecciated look with broken-up pg and fractures filled with chl+bt	
					Possibly some remnants of layering at angles from 25-45o to perpendicular	
123.9	128.1			Porphyry		
128.1	129.3			Coarse-grained gabbro	Hb-chl, some bt	
					Foliation at 45o to perpendicular	
129.3	130.0			Pegmatitic gabbro	Deep dark green, possibly px left, probably all hb	
					Vague alignment at 0-20o to perpendicular - different from previous	
					Bt blebs, some with py specks	
130.0	133.0			Alteration zone	Strong alteration in possibly leucogabbro to anorthosite?	
					Silicification is very strong, some sericite, local ep and local bt	
					130.6 - Anorthositic section	
					130.8-132.8 - Possible anorthosite, some remnant of purplish pg crystal fragments	
					132.9-133.0 - Bt-chl shear with py cubes	
133.0	134.2			Coarse to very coarse-grained leucogabbro	Somewhat layered	
					Local py cubes, local bt blebs	
134.2	140.5			Coarse to medium-grained gabbro to pyroxenite	Same as described before	
					Mafic minerals mostly hb, bt in variable amounts	

					Layering defined by mafic-felsic proportion and/or grain size	
					Some small qz veins	
					134.6-135.0 - Pyroxenite interval	
					136.9-137.1 - Pyroxenite interval	
					140.0 - 5 cm shear	
140.5	142.4			Porphyry		
142.4	146.2			Medium to coarse-grained gabbro	Composition varies slightly but generally mezo to leuco.	
					Hb-bt are mafic mineral	
					Tr py cubes	
					142.7 - 3 cm pyroxenite interval, sheared	
					146.0-146.2 - Chlorite schist with white alteration mineral, slightly reactive to acid - dolomite? Brick red alteration from in following unit	
146.2	147.2			Porphyry	Ep-chl-cb veins with brick red alteration halos around	
147.2	148.4			Alteration zone	Crumbly core, completely altered brick red, possibly Fe-cb? Some white mica, bt, chl, ep	
148.4	153.0			Porphyry	Multiple small orange veins	
					150.8 - 7 cm qz vein	
153.0	155.6			Very coarse-grained to pegmatitic gabbro to leucogabbro	Mafic mineral mostly hb with some chl and patches of bt	
					Large crystals up to 3 cm of pg, pink-orange altered locally	
					153.4 - Small ultramafic shear	
					154.8 - Oikocryst-looking texture	
					155.6 - Brecciated vein at contact	
155.6	164.8			Coarse to medium-grained leucogabbro to pyroxenite	Layered	
					Bt amount varies but up to 50% of mafic minerals	
					155.9-156.0 - Pegmatitic gabbro	
					156.1-156.2 - Pyroxenite	
					156.5 - 5 cm pyroxenite	
					157.0-157.1 - Shear zone	
					157.2-157.4 - Shear zone with orangy alteration (Fe-cb?)	
					157.55 - Small shear	
					157.7 - Small shear	
					160.0 - Chl vein with large py crystal 2X1.5 cm, 2 mm thick	
					164.5-164.8 - Pyroxenite section, bt-rich, gets more foliated down hole - several perfect py cubes	
164.8	166.2			Porphyry		
166.2	167.6			Coarse-grained leucogabbro	Somewhat rhythmically layered	
					Sericitic patches	

					166.5 - Fragment or dike of medium-grained gabbro	
167.6	170.1			Coarse-grained gabbro to melagabbro	Contact with previous is progressive and approximate	
					Occasional <1 mm py cubes	
					168.4 - 2 cm chloritic shear	
					168.5 - 10 cm chloritic shear	
170.1	171.1			Anorthosite	Very pure, purplish remnants of py crystals	
					170.35 - Chl+py vein	
					170.75 - Py-chl vein	
171.1	171.8			Medium-grained leucogabbro	171.5-171.8 - Very altered section adjacent to porphyry, chlorite, calcite and orange mineral (Fe-cb?)	
171.8	176.0			Porphyry	Hairline orangy veins	
					173.7 - Xenolith of foliated chloritic rock (1X3 cm)	
					Down hole contact at 60o to perpendicular	
176.0	177.3			Medium-grained gabbro	Mafic are ~60% hb and 40% pg	
					Massive, not too layered, weak foliation	
					Rare py cubes	
					177.3 - Chlorite shear	
177.3	177.9			Porphyry	Pieces of gabbro, looks like drilling near parallel to contact	
177.9	178.3			Coarse-grained gabbro	1% py cubes ~1 mm	
178.3	179.3			Porphyry and coarse-grained gabbro	Drilling parallel to irregular contact	
179.3	180.8			Coarse-grained gabbro		
180.8	183.3			Porphyry	Down hole contact >60o to perpendicular, about 90o to layering/foliation	
183.3	189.7			Coarse-grained leucogabbro to melagabbro	More mafic going down hole	
					185.6-185.7 - Chloritic shears	
189.7	201.0			Porphyry	Pink veins	
201.0	207.6			Coarse-grained leucogabbro	201.7-201.9 - Breccia-looking texture	
					202.5-3 cm chloritic shear with cb	
					203.3-2 cm chloritic shear with cb and orange alteration	
					203.9-204.1 - Chl-bt-cb rich section	
207.6	207.8			Porphyry	EOH	

Drill Log

Company Name:	Northern Shield Resources	**DDH Number:**	06HB-07
Property Name:	Highbank Lake	**Collar UTMN:**	554605
Location:	250 km north of Nakina, Onta	**Collar UTME:**	5811870
	75 km northwest of Ogoki	**Zone, Datum:**	16, NAD83
Claim Number:	3015901	**Drilling Azimuth:**	338°
		Core Size:	BTW (BQ Thin Wall)
Drilling Contractor:	Cartwright Drilling	**Hole Length:**	152.4 m
Date of start:	17-Jul-06	**Logs by:**	Christine Vaillancourt, CCIC
Date completed:	19-Jul-06	**Core Storage:**	Warehouse in Hearst, Ontario

From	To	Rock Type	Description
	50.6	Overburden to very weathered	Metres very approximate because all mud and crumbles.
			43.3-45.7 - Probably boulder of carbonate rock of some type
			45.7-48.0 - Consolidated mud with local fragments, also cb-rich
			48.0-50.6 - Crumbles of what looks like strongly cb-altered gabbro
50.6	78.8	Oikocrystic anorthositic gabbro	The top portion of this hole is a very altered anorthositic gabbro with large oikocryst of a mafic mineral, originally px, which can be several cm in size
			~20% mafic minerals, could be hb with remnant px (paler green)
			Common siliceous veins with py
			50.6-51.8 - Strongly cb-altered somewhat solid section with remnant oikocryst (poikiolitic) textures. Other unidentified alteration mineral, looks like a copper-red mica. Rest of rock is beige and soft, turns pale green with acid and has the soft touch of talc.
			51.8-60.0 - Brick color alteration, cb only in veins, not in rock, large portion of mafic mineral replaced by brick-red alteration mineral. Serpentine-cb veins cut through this section.
			60.0-61.5 - Cloudy section of same oikocrystic anorthosite.
			61.5-63.8 - Less altered portion of oikocrystic anorthosite. No cb except in veins.
			63.1 - Mt oikocrysts with py and possible ser+ep.
			61.4 - 5 mm py cube near ep-qz patch
			61.5 - Vein with serpentine
			62.6 - Serpentine vein with ser+chl and copper-color mica. Veins has brick-color alteration halo down hole and ser+chl halo down hole.
			63.8-76.8 - Brick color alteration, ep with Fe-cb? Many qz veins from 3 to 20 cm in width, some with large py crystals, also some brick-red veins.
			66.6-67.1 - Shear zone

					76.8-77.3 - Less altered section, similar oikocrysts, more mafic	
					77.3-78.6 - Epidote and brick-red alteration, also somewhat cloudy	
78.8	79.6			Anorthosite	Coarse pg cumulate texture.	
					Pg is 2-5mm, average 3mm	
					Not sure about mafic mineral, partly epidotized and sericitized.	
					Some ep veins	
79.6	84.6			Oikocrystic anorthositic gabbro	Same as previously described	
					Some mt+py oikocrysts with sericitized areas	
84.6	91.5			Oikocrystic anorthosite	Getting more leucocratic with less abundant oikocrysts	
					Local remnants of purplish original pg cumulates	
					84.7 - Turquoise color serp+cb+ser vein	
					85.3 - Black tm vein?	
					85.7-88.3 - Cloudy altered section	
					88.3-89.2 - Less altered, more mafic section	
					89.2-91.5 - Brick-red and ep alteration, discontinuous qz vein through intersection with ep+ser alteration and significant py and mt, some purplish pg crystals.	
91.5	95.6			Oikocrystic anorthositic gabbro	More mafic, not too altered section	
					92.7-93.0 - Well preserved pg cumulate texture	
					93.7 - Cb vein with py	
95.6	102.2			Coarse-grained gabbro	Granular texture	
					Fabric at 40-45o to perpendicular	
					Generally medium-grained with coarse to very coarse-grained area	
					Generally mezogabbro with amp proportion varying slightly	
					40% mafic mineral, px possibly partly into hb, some bt	
					Some local ilmenite, also mt oikocrysts with ep? alt around	
					Py in chl+qz veins	
					95.9 - Brick red vein with turquoise serpentine and cb, some sericite halos and py	
					96.1 - Same as 95.9	
					97.0 - Same as above, larger vein with some qz	
					98.8 - Large py crystal in qz vein	
					99.0 - Same as above	
					100.0 - Large py crystals in vein	
102.2	102.8			Pegmatitic gabbro	Px (partly to hb or act at borders?), bt and pg	
					2-4 cm crystals	
					More pg-rich in middle of intersection	
					Some mt+py and ilm with leucoxene coronas	
102.8	109.3			Coarse-grained gabbro	Same as before pegmatite	

					106.0-107.7 - Cloudy alteration zone also with brick red alteration, ep, possibly ser, qz veins with py and turquoise serp. Very coarse section from 107.1 to 107.5.	
					108.4-109.6 - Long vein parallel to core, qz-serp-py and very small specks of moly.	
109.3	110.9			Very coarse to pegmatitic anorthosite to pyroxenite	Composition varies from anorthositic gabbro to ultramafic in sections with unclear contacts.	
					109.6-109.8 - Ultramafic section with 1mm books of bt with deep green mineral (px?), could be intrusive in the anorthositic gabbro	
					110.0-110.2 - Nice pegmatitic section of gabbro with mt and py	
110.9	111.1			Coarse-grained gabbro	Altered and veined	
111.1	112.1			Pegmatitic anorthosite to pyroxenite	Similar to 109.3-110.9	
					112.0 - Ilmenite with leucoxene coronas and py in pegmatitic UM.	
112.1	117.0			Medium to coarse-grained gabbro	Mostly granular texture, medium-grained at up hole contact, rest is coarse-grained	
					114.4-117.6 - Green and brick-red cloudy alteration	
					114.9-115.3 - Section is pegmatitic in center, altered and veined	
					115.6-15.7 - Very coarse grained section	
					116.2 - Qz-ep-cb vein with py	
					116.8 - 1cm porphyry dike	
					116.9 - 5 cm porphyry dike	
117.0	117.2			Porphyry	Dike	
					Contact at low angle with core	
					Lots of brick-red veins	
					Foliation is close to parallel to contact	
					1% py	
117.2	117.6			Coarse-grained gabbro	Orangy alteration near dike	
					Some veins with ep , cb and turquoise serp	
117.6	118.0			Layered anorthosite to medium-grained gabbro	Layers at 30o to perpendicular and not sharp, more wavy (s-shape) of 2-3 cm of anorthosite and 4-5 cm of gabbro.	
					1 cm ilm+py blebs in anorthosite	
					117.9 - Qz-ep-cb-py vein	
118.0	119.2			Coarse-grained gabbro	Sericitic areas around ilm+py blebs	
119.2	119.3			Diorite	Dioritic dike, no phenocrysts but seems to be related to porphyry	
119.3	119.8			Coarse-grained gabbro		
					119.5 - 4X3 cm pyroxenite fragment with ilmenite	
119.8	120.0			Diorite	Dioritic dike on half the core only since contact is parallel to core.	
					1-2% fine disseminated py	
120.0	120.5			Coarse-grained gabbro	Lots of sericitic patches of ilm+py	
120.5	121.5			Anorthosite	Strong alteration, brick-red and fine bt-rich veins	
					8 cm shear with qz vein at up hole contact	

					Down hole contact is strongly brick-red altered with also cb-py-ep and other mint-green mineral?	
121.5	123.5			Very coarse-grained gabbro to anorthositic gabbro	Many large patches of ilm+py	
					Many py-rich veins	
123.5	124.4			Anorthositic gabbro	Very altered intersection with qz-py-cb-ep-chl veins with other very pale green mica.	
					Purplish remnants of original pg	
124.4	129.2			Anorthositic gabbro	Oikocryst-looking texture	
					Vague banding at 45o	
					Purplish remnants of original pg	
					125.6-126.5 - Very strong ep alteration, cb-ep vein at beginning, turquoise serp seems to be partly replacing mafic minerals?	
					126.5-126.9 - Lots of ep-cb veins	
129.2	131.3			Very coarse-grained anorthositic gabbro to gabbro	Lots of ilm+py blebs	
					130.9 - Py-rich vein	
131.3	131.5			Coarse-grained gabbro	Granular texture	
					Qz veins with py cubes	
131.5	133.3			Very coarse-grained anorthositic gabbro to gabbro	Similar to 129.2-1131.3	
133.3	133.9			Coarse-grained gabbro	Similar to 131.3-131.5	
133.9	137.1			Gabbro	Patchy, oikocryst looking	
					Py+ilm enrichment typically close to veins	
					134.2 - Qz-ep orangy vein	
					136.2 - Dark am? vein 3-4mm with some py	
137.1	144.7			Coarse to very coarse-grained gabbro	Granular texture, relatively homogenous but some variation in grain size and mafic to felsic mineral ratio	
					Some ilm+py blebs	
					Up to 5% biotite	
					137.2 - Qz-ep-orangy vein	
					137.8 - Big qz vein	
					138.3 - 13 cm sections with abundant qz veins with alteration halos, very small specks of py and possibly small specks of moly	
					138.9-140.1 - Strong foliation at 35o to perpendicular	
					140.3 - Qz-cb-ep-py vein	
					141.1 - 1cm qz vein	
					143.6 - 10 cm alteration zone around qz-ep-cb vein	
					144.5-144.7 - More leucocratic (anorthositic gabbro)	
144.7	145.1			Very fine-grained gabbro	Dike?	

					Pale grey, foliated perpendicular to core	
					Contacts are unclear - up hole is ep-cb vein and down hole is sharp and has no chilled margin - could be xenolith	
					Tr cb	
					Lots of ep veins	
145.1	147.4			Very coarse-grained gabbro	Granular texture	
					Some ilm-py blebs	
147.4	152.4			Anorthositic gabbro	Oikocryst-looking texture	
					<15% mafic minerals except small bands with coarser mafic (hb+bt)	
					Some nice well formed ilm+py blebs	
					149.0 - 3 cm ultramafic bands with mt-ilm-py	
					150.0-150.1 - Fine chloritic dike with 20 cm of strong silicification in following unit (down hole from dike)	

Drill Log

Company Name:	Northern Shield Resources	**DDH Number:**	06HB-09
Property Name:	Highbank Lake	**Collar UTMN:**	5805669
Location:	250 km north of Nakina, Onta	**Collar UTME:**	554430
	75 km northwest of Ogoki	**Zone, Datum:**	16, NAD83
Claim Number:	1180791	**Drilling Azimuth:**	333°
		Core Size:	BTW (BQ Thin Wall)
Drilling Contractor:	Cartwright Drilling	**Hole Length:**	258.8 m
Date of start:	22-Jul-06	**Logs by:**	Christine Vaillancourt, CCIC
Date completed:	27-Jul-06	**Core Storage:**	Warehouse in Hearst, Ontario

From	To	Rock Type	Description
	58.8	Overburden	
54.8	67.6	Garnetiferous metapyroxenite (amphibolite) to melagabbro	Garnetiferous amphibolite - Original composition is hard to define
			Black with slight shade of green
			Garnet <0.5 to >5 mm in size, 5 to 10% of rock
			Medium-grained (~2 mm?)
			Possibly pyroxenite to gabbro, pg is altered to pale green not sure
			2-5% oxides, some magnetite and other non-magnetic (ilmenite?), amoeboidal in shape. Magnetite content is irregular and erratic.
			Very small specks of secondary quartz? I think
			Tr py and tr po
			54.8-56.1 - Dark, ultramafic looking, weathered and soft, small gt, blue mineral?
			56.1-56.3 - Very weathered and crumbly section with bright blue mineral, ~3mm crystals, some look like they have radial needles. Very soft buff brown veins.
			56.3-58.1 - Similar to previous but contains yellowish remnants of minerals - possibly sericite? Very weathered.
			58.1-59.4 - Bright orange to brown alteration, very crumbly
			59.4-61.2 - Ultramafic section, relatively massive, contains yellowish remnants.
			61.2-62.0 - Stripy - protolith probably more gabbroic, pg is altered to pale green on fresh surface but yellow on drill surface (?changed color since drilled?)
			62.0-67.6 - Gabbroic
67.6	72.1	Dioritic porphyry	Dike, similar to previously described in other holes
			5-10% pg phenocx, 1-3 mm in size

					Up hole contact at low angle to core, down hole contact at high angle	
					3-5% small specks of biotite	
					Generally moderate foliation	
72.1	77.4			Garnetiferous metapyroxenite (amphibolite)	Same as before dike	
					Moderately magnetic from beginning to 76.7, than not magnetic and gets finer grained	
77.4	77.8			Metapyroxenite (amphibolite) to melagabbro	Fine grained, similar to previous without garnet	
					Foliated	
77.8	78.3			Dioritic porphyry		
78.3	78.4			Garnetiferous metapyroxenite (amphibolite)	Very altered and crumbly	
					Garnet >0.7 cm	
78.4	78.6			Dioritic porphyry		
78.6	79.1			Garnetiferous metapyroxenite (amphibolite)	Strong foliation, irregular bands (not sure what they are)	
					2% py transposed along foliation and in chloritic veins cutting foliation	
					Garnet only locally in few mm bands	
					Small secondary qz crystals	
					Relatively strongly magnetic with mt following foliation	
79.1	81.0			Garnetiferous metapyroxenite (amphibolite)	>15% large garnets > 5mm, size and distribution is uneven	
					Garnet not affected by foliation	
					Local 4-5 cm bands appear more felsic (pg)	
					Oxides rare and erratically distributed	
					Tr sulphides, mostly flat along foliation	
81.0	83.5			Garnetiferous metapyroxenite (amphibolite) to melagabbro	Small garnets	
					Foliation almost perpendicular to core, equivalent to "layering" defined by amount of altered pg	
					<1% ilmenite	
					81,6-82.3 - >5% mt	
					81.9 - 7 cm pyroxenite interval with large px crystals and no garnet; up hole contact is faulted (displaced)	

					82.2 - 3 cm pyroxenite layer in melagabbro	
					82.5-83.5 - Non-magnetic, more pg-rich section, diss py, <1% oxides	
83.5	84.5			Garnetiferous *metapyroxenite (amphibolite)*	20% garnet, some > 5mm	
					Foliation is generally strong	
84.5	85.0			Porphyry	Dike with gt-pyroxenite garnets	
85.0	89.6			Garnetiferous *metapyroxenite (amphibolite)*	Same as before dike	
					up to 2% oxides, erratically distributed	
					Tr py and tr po	
					85.0-85.2 - 20% garnet, 3-5 mm	
					85.2-86.3 - 20% garnet, 3-5mm, locally sheared	
					85.6 - 7 cm sheared section with talc	
					86.3-87.0 - Talc-rich shear zone with less garnet	
					87.0-89.6 - 15-20% garnet, 3-5 mm, size and amount of gt varies in bands	
					88.6 - 6 cm ultramafic band with actinolite needles	
89.6	100.6			Metapyroxenite (amphibolite) to melagabbro	Medium to coarse-grained	
					Small garnets at top of intersection, gradually disappearing, none left at 90.2	
					Alteration of plagioclase is near total (talc?) at top of intersection and gradually less.	
					89.6-91.0 - Medium-grained melagabbro with talc?	
					91.0-92.1 - Coarse grained melagabbro, weak talc alteration	
					92.5-92.8 - Medium-grained pyroxenite	
					92.8-93.9 - Medium-grained melagabbro with moderate talc alteration	
100.6	100.8			Fine-grained layered anorthositic gabbro to gabbro	Layering defined by proportion of mafic versus minerals in 1-2 cm wide bands	
100.8	102.6			Anorthosite	Massive, homogeneous	
					Tr chl and tr ilm	
					Fine white veins	
					100.95 - 3 cm mafic band	
					101.6 - 7 cm purplish alteration zone	
					102.0-102.1 - More mafic bands with chl+talc? alteration	
					102.3 - Soft dark green vein - serpentine?	
102.6	102.8			Pyroxenite	Strong foliation perfectly perpendicular to core	

					Banded rock	
					Biotite alteration	
					Sulphide-enriched bands followed by ilm-rich bands	
102.8	103.4			Medium-grained melagabbro	Foliated contact down hole at 45o	
					~3% ilm with leucoxene coronas evenly distributed through intersection	
					Down hole contact is foliated at ~45o and veined (qz-bt-chl)	
103.4	104.0			Medium-grained leucogabbro	Vague layering close to perpendicular with few cm bands that are more hb-rich	
					Some small ilm, typically concentrated below (DH) more mafic sections	
104.0	104.4			Fine-grained gabbro	Dike - Contacts are perpendicular to core, recrystallized and not very clear but appears to cut medium-grained gabbro	
					Weak to moderate foliation	
					Small qz vein with alteration halos	
					Not much oxides	
104.4	108.5			Layered medium-grained gabbro to pyroxenite	Small ilm with coronas start appearing at ~107.5 and get more abundant going down hole to ~1%	
					104.4-106.15 - Homogeneous section of mezogabbro	
					105.8 - Specks of po	
					106.15-106.25 - Pyroxenite, weakly magnetic	
					106.25-106.4 - Melagabbro	
					106.4-106.6 - Pyroxenite	
					106.6-107.3 - Melagabbro	
					107.3-108.3 - Mezogabbro	
					108.3-108.5 - Pyroxenite	
108.5	108.9			Porphyry	Dike	
					Silicified contact up hole ~1cm, host gabbro is bt-chl altered over ~1cm as well	
					108.75 - 5 cm fragment of gabbro	
108.9	109.0			Melagabbro		
109.0	109.7			Anorthosite	Very massive	
					Few chl patches and act needles	
109.7	110.0			Pyroxenite	Moderate foliation	
					~3% ilm	
110.0	111.6			Layered fine-grained gabbro	Fine layering looks like bedding, close to perpendicular to core	
					Fine hb-chl-pg	
					Very weakly magnetic locally but no visible mt, random (not associated with more or less mafic)	
					Gets more foliated at ~110.0, and gets really foliated from 111.2.	
					Sections with fine bt-altered bands and fine ep altered bands	

111.6	114.3			Layered medium-grained gabbro to pyroxenite	Layering defined by grain size and/or felsic-mafic mineral proportions	
					Garnet starts appearing at 113.6	
					Not much oxides	
					111.6-112.4 - Medium-grained gabbro	
					112.4-113.7 - Melagabbro, med to coarse-grained, weak foliation at 75o to core	
					113.7-113.9 - Pyroxenite; "stripy" with posy talc alteration, gt, mt and small qz	
					113.9-114.0 - Melagabbro with traces of ilm	
					114.0 - 3 cm porphyry dike	
					114.0-114.25 - Pyroxenite, "stripy" with biotite, no gt, small qz, tr ilm	
114.3	117.7			Porphyry	Small qz veins locally with chlorite	
117.7	118.9			Coarse-grained gabbro to leucogabbro	Tr ilm with coronas	
					117.7-118.0 - Melagabbro that grades into next	
					118.0-118.9 - Leucogabbro, tr diss po and in veins at 118.7	
118.9	119.4			Pyroxenite	Relatively strong foliation	
					~1% oxides, not magnetic	
					tr diss po	
					py around veins	
					119.1-119.4 - Layered	
119.4	121.9			Layered coarse to medium-grained melagabbro to pyroxenite		
					119.4-119.5 - Pyroxenite with garnet and 2% ilm	
					119.5-120.0 - Coarse grained melagabbro, relatively homogeneous, 2-3% slightly magnetic ilm, tr diss po	
					121.6-121.9 - Pyroxenite, tr po, 1-2% oxides	
121.9	123.0			Medium-grained melagabbro	Possible olivine remnants	
					1% oxides (not magnetic)	
					Locally deformed - yellow mineral (posy ol) is most affected	
123.0	124.3			Medium-grained leucogabbro	<1% small specks of oxides	
					Transition into next is gradual	
124.3	126.4			Anorthosite	Tr very small ilm with coronas	
126.4	127.8			Fine-grained layered melagabbro to pyroxenite	Rhythmic layering	
					Pyroxenite beds between 1 and 7 cm wide, also contain more ilm (up to 10%) and very fine py (1%)	

127.8	128.2			Medium-grained melagabbro	Similar to 121.9-123.0	
128.2	128.4			Pyroxenite	Tr oxides and tr sulphides	
128.4	128.6			Fine-grained layered gabbro to pyroxenite	Rhythmic layering is irregular	
					1% oxides	
128.6	131.7			Medium-grained melagabbro		
					128.6-129.5 - Some of the possible olivine remnants, moderately foliated, very small oxides - very weakly magnetic	
					129.5-131.7 - No olivine remnants, some well preserved tabular plagioclase crystals.	
131.7	132.0			Medium-grained leucogabbro	Tr oxides - not magnetic	
					Small cb veins	
132.0	132.5			Pyroxenite	To melagabbro down hole	
					Some sericitic alteration	
					Tr oxides - not magnetic	
					Fine diss py and in veins	
132.5	133.0			Fine to medium-grained layered gabbro	Rhythmic layering, possible olivine remnants - this units particularly looks like a plagioclase-olivine cumulate	
133.0	138.7			Medium to coarse-grained gabbro	Some of the possible olivine remnant but not much	
					Tr diss po and py through all intersection some in veins as well	
					Some chl hairline veins	
					137.5 - 10 cm pyroxenite interval	
					137.6 - 2 cm pyroxenite interval	
					138.0 - 15 cm interval with 2 beds of pyroxenite, more ilm, weakly magnetic, posy po	
					138.3-138.6 - Weak rhythmic layering	
					138.6 - 3 cm sheared area with bt-chl-py-cb	
					138.7 - Same as 138.8 at contact with porphyry	
138.7	139.6			Porphyry		
139.6	142.3			Medium-grained gabbro	Vague layering	
					Possible olivine remnants	
					Tr oxides - not magnetic	
					142.2 - 3 cm anorthosite band	
142.3	143.6			Foliated and altered rock??	Not sure what it is, mixture of chl+talc+ser?	
					NOTE: Photos don't seem to make sense with this description???	
					142.3 - Contact is sheared	
					142.5 - Ilm+py vein ??	

					143.5-143.6 - Zone of almost just the yellow mineral (use to be olivine?) with a discontinuous ilm vein	
143.6	144.9			Layered leucogabbro to gabbro	Locally very weakly magnetic, tr ilm	
144.9	145.3			Coarse-grained leucogabbro	Chl+bt < 10%	
					1% ilm	
145.3	145.7			Layered leucogabbro to gabbro	Similar to 143.6-144.9	
145.7	146.4			Coarse-grained leucogabbro	Similar to 144.9-145.3	
					146.0 - Small shear, bt-rich area with qz and chl	
146.4	158.1			Medium-grained melagabbro to gabbro	Small occasional pyroxenite intervals	
					Cb-rich veins	
					Mostly non-magnetic except some narrow mt-rich bands	
					147.0 - Small shear	
					149.0 - 4 cm band of pyroxenite	
					154.8 - 2 cm band of pyroxenite with ilm	
					155.2 - Two 1 cm mt-rich band	
					155.7 - 1 cm mt-rich band	
					156.0 - Starts getting more mt-rich section from this point	
158.1	158.4			Porphyry	Dike	
158.4	160.3			Hb-mt melagabbro	Small garnets	
					Tr diss py, some in veins	
160.3	161.1			Coarse-grained gabbro	Possible olivine	
					1% oxides, somewhat chunky, posy chromitite but probably ilm	
161.1	161.3			Porphyry	Dike	
161.3	161.6			Coarse-grained gabbro	Similar to 160.3-161.1	
161.6	162.4			Mt-hb gabbro	Small intersection of pyroxenite with large garnets	
162.4	163.3			Mt-rich ultramafic rock		
163.3	163.6			Garnetiferous metapyroxenite (amphibolite)	Pale green alteration mineral - fine chlorite? - replacing large portion of mafic minerals	
163.6	164.1			Fine-grained ultramafic rock	Banded pale green-dark green	
					Tr oxides - not magnetic	
164.1	165.4			Mt-hb gabbro	Some garnet	
165.4	166.8			Mt-rich ultramafic rock	Py in veins	
166.8	169.6			Medium to coarse-grained leucogabbro	Contains sheared small ultramafic intersections with ilmenite, and small mt reefs	
					167.2 - Ultramafic intersection	
					167.35 - Ultramafic intersection	

					182.05-182.25 - Fine ultramafic rock, no mt	
					182.2-182.8 - Rhythmic layering with mt-rich base down hole and grading into more felsic up hole	
					182.4 - Two 4 mm po veins on either sides of core above mt+py+hb-rich section	
					183.2 - 15 cm interval with 2 ultramafic zones with mt+py at base down hole and in middle	
					183.6 - 15 cm fine ultramafic intersection, no mt	
					184.0-184.1 - Mt-hb gabbro	
					184.3 - Fine ultramafic intersection, no mt	
					185.2 - 10 cm ultramafic intersection, no mt	
					185.7 - 3 cm anorthosite	
					185.9 - 20 cm ultramafic intersection with mt+py at down hole base	
					186.5 - Mt-rich base down hole	
					186.6 - Mt-rich base down hole	
					186.6-187.5 - Mt-hb gabbro	
					187.5 - Mt-py rich bed layer at up hole end of sequence, getting less abundant towards down hole	
					187.6-188.7 - Mt-rich section with less hb	
					188.7-189.7 - Pyroxenite, not magnetic, some oxides, 3-4 mm bands with pg, none in rest of intersection, 3 cm mt reef with py at down hole contact	
					189.7-191.5 - Medium-grained mt-hb gabbro, progressively more chloritized towards down hole	
191.5	191.9			Medium-grained magnetite-rich ultramafic	Double corona on plagioclase?? - from center: pg-hb-white corona	
191.9	192.1			Pyroxenite and magnetite reef	Magnetite+pyrite reef at up hole contact, grading into pyroxenite without magnetite down hole	
192.1	192.7			Medium-grained melagabbro	Some mt in specific layers	
192.7	193.0			Medium-grained gabbro	Local mt	
193.0	193.4			Coarse-grained leucogabbro to anorthosite	Grades from leucogabbro to anorthosite down hole.	
					Pegmatitic "dike" with chlorite and biotite	
193.4	195.2			Medium-grained magnetite gabbro		
195.2	197.5			Coarse to very coarse-grained gabbro	Somewhat layered finely with <1cm "bands" that have higher concentration of mafic minerals	
					~1% ilmenite with local small coronas of leucoxene	
197.5	207.4			Layered magnetite reef-pyroxenite to leucogabbro		
					201.7-203.2 -	

					203.2-203.6 -	
					203.6-204.2 -	
					204.2-206.0 -	
					206.0-206.6 -	
					206.6-207.4 -	
207.4	219.5			Coarse-grained gabbro	Rhythmic layering poorly defined	
					2-3 cm bands rich in ilmenite with leucoxene coronas	
					No sulphides	
219.5	222.0			Porphyry	Same as usual with lots of qz veins and orange alteration	
222.0	222.9			Medium to coarse-grained melagabbro	Grades into more mt-rich down hole	
					Down hole contact is 1 cm shear zone	
222.9	226.3			Medium-grained magnetite-hornblende leucogabbro	Homogeneous and granular textured	
226.3	227.4			Anorthositic gabbro	Very strong alteration with orange veins, epidote and local biotite	
227.4	231.6			Coarse-grained leucogabbro	Not really granular, more like 207.4-219.5	
					228.0-228.1 - UM section, hb with some mt	
					229.4-229.6 - Mt reef, looks like base at down hole contact	
					230.5 - <10 cm mt-rich horizon, no "grading"	
231.6	234.0			Layered magnetite reef-pyroxenite to leucogabbro	Medium-grained generally	
					Similar to previously described in this hole except that mt reefs don't have as much py	
					Some garnet in more mafic layers	
					232.1-232.2 - Mt-rich section, grades in and out in both directions	
					232.5 - Grades in an out of mt-rich layer both directions, longer up hole	
					232.7 - Grades in an out of mt-rich layer both directions, longer up hole	
					232.9-233.2 - Mt-reef up hole, followed by ultramafic section with tr. sulphides	
234.0	238.8			Medium-grained magnetite leucogabbro		
					234.5-234.8 - Py-enriched zone	
					234.9-235.1 - Chl-py veins with tr cpy	
					235.8-236.1 - Silicified shear zone, up to 2% py, serpentine veins, bt	
					236.8 - Fine-grained mt-rich horizon, different from usual because mt is very fine	
					237.1-237.2 - Fine-grained mt-rich horizon, different from usual because mt is very fine	
					237.4-237.6 - More mafic zone, grades in and out both directions	

					237.8-237.9 - Mt-enriched zone, grades in and out both directions	
					237.95-238.15 - Fine mt-enriched zone, grades in and out both directions, more foliated down hole	
					238.2-238.8 - Foliated and altered zone with ep+ser	
					238.25 - Qz-ep-py vein	
					238.6-238.7 - Qz-ep-py vein, m+act+ilm with coronas	
238.8	242.3			Porphyry	Same as usual, very strong orange alteration starts around 241.1	
242.3	246.6			Brecciated orange alteration zone	Very strongly altered zone, unrecognizable protolith, main mineral is bright orange and forms long tabular to acicular crystals, possibly a carbonate but not reactive to acid	
246.6	247.3			Medium-grained magnetite-hornblende gabbro to melagabbro	Biotite alteration is strong at contact with alteration zone up hole	
247.3	257.9			Coarse-grained layered leucogabbro and magnetite reefs		
					248.8-249.0 - Mt reef with bt+chl+py	
					249.35-249.55 - Mt reef, no obvious direction	
					250.4 - 5 cm mt-enriched zone, no obvious direction	
					252.3-253.0 - Mt-enriched zone, ends with 8 cm reef down hole	
					253.4-253.5 - Mt enriched zone, no obvious direction	
					253.6 - Small blebs of py growing around hb crystals	
					253.9-254.0 - Mt reef with chlorite (hb?) enrichment at both ends	
					254.1-254.2 - Mt reef with sharp base at down hole contact and progressive at up hole contact	
					254.3-254.4 - Mt reef with sharp base at down hole contact and progressive at up hole contact	
					254.4-254.7 - Chl-bt enriched zone with py hairline veins	
					255.1-255.2 - Mt-chl-bt enriched zone, no direction	
					256.0 - 6 cm bt-chl-py vein	
					257.3-257.9 - Bt alteration with discontinuous foliation, generally py-rich	
					257.6 - 1 cm band with nice actinolite needles and py	
257.9	258.8			Porphyry		

Drill Log

Company Name:	Northern Shield Resources	**DDH Number:**	06HB-10
Property Name:	Highbank Lake	**Collar UTMN:**	5811387
Location:	250 km north of Nakina, Onta	**Collar UTME:**	551801
	75 km northwest of Ogoki	**Zone, Datum:**	16, NAD83
Claim Number:	3019450	**Drilling Azimuth:**	333°
		Core Size:	BTW (BQ Thin Wall)
Drilling Contractor:	Cartwright Drilling	**Hole Length:**	228.6 m
Date of start:	28-Jul-06	**Logs by:**	Christine Vaillancourt, CCIC
Date completed:	31-Jul-06	**Core Storage:**	Warehouse in Hearst, Ontario

From	To	Rock Type	Description
48.8	67.0	Metapyroxenite (amphibolite)	Crumbles, badly weathered
			Garnets only locally
			One ~15cm more solid (better preserved) porphyry dike
67.0	69.3	Garnetiferous metapyroxenite (amphibolite)	Strongly foliated
			2-3% very small crystals - qz? possibly extra silica after metam?
			Garnet distribution and size is variable but somewhat affected by foliation - late tectonic
			3-5% magnetite
			Stripy look where more foliated - more pg-rich?
69.3	69.8	Silicified rock?	Not sure what this is - pure silica with orange veins
			Small 1-2 mm green rounded particles with sulphides precipitated around or inside - these particles have 3-4 mm halo of cloudy alteration around them.
69.8	69.9	Metapyroxenite (amphibolite)	Biotite-chlorite-ilmenite-magnetite
			1-3% pyrite
			Very strongly sheared
			Contact with previous siliceous zone is knife sharp
69.9	71.2	Silicified rock?	
71.2	71.3	Metapyroxenite (amphibolite)	Same as 69.8-69.9
71.3	71.9	Silicified rock?	
71.9	72.3	Metapyroxenite (amphibolite)	With silicified stuff looking like small "veins"
			Looks brecciated with biotite filling space between fragments
72.3	72.5	Silicified rock?	

72.5	73.0			Garnetiferous metapyroxenite (amphibolite)	Similar but with garnet	
73.0	73.3			Banded garnetiferous pyroxenite and silicified rock	Folded	
73.3	76.4			Garnetiferous melagabbro	Distribution of garnet is erratic and is less abundant to absent progressively toward down hole	
					Up to 10% magnetite	
					Foliation at ~25o to perpendicular	
					76.4 - Small ultramafic band at contact	
76.4	76.6			Silicified rock?	With acicular black mineral - actinolite?	
76.6	76.8			Porphyritic gabbro	Pg phenocx 1-2 mm	
					3% oxides, mostly ilmenite with leucoxene coronas	
76.8	76.9			Silicified rock?	With acicular black mineral - actinolite?	
					Some small garnets	
					Some pg - I think	
76.9	77.8			Porphyritic gabbro	Same as 76.6-76.8	
					Weak foliation at >45o to core	
					Tr. diss. py	
					77.7 - 3 mm qz vein with py and moly	
77.8	79.0			Medium-grained gabbro	More granular textured	
					Pervasive biotite alteration	
					Chlorite veins	
					78.1 - Chl vein with sericitic halo	
79.0	94.4			Anorthosite	Small actinolite needles, chl, bt	
					Strong sericitization around chlorite veins	
					Rare Ilmenite with coronas	
					Rare diss. to ~ 1% po and in qz veins	
					79.6 - Small po vein	
					87.0 - Patch of po near qz vein	
					87.5 - 7 cm very fine-grained gabbro dike	
					92.7 - 6 cm very fine-grained gabbro dike	
					94.3 - Big qz vein with tr po	
					94.4 - Contact is a series small bands of ultramafic in anorthosite before turning into just anorthosite	
94.4	96.0			Silicified rock?		
					95.6 - Band of ultramafic rock	
					95.7 - Band of ultramafic rock	
					95.7-96.0 - Very orange, also contains garnets	

96.0	96.6			Garnetiferous metapyroxenite (amphibolite)	With magnetite	
					Down hole contact is sheared and crumbly	
					Some py	
96.6	97.4			Silicified rock?		
					With chl+py veins	
97.4	100.7			Metapyroxenite (amphibolite)	Mt-rich, no garnet	
					Py abundant especially near up hole contact	
100.7	114.4			Anorthosite	Contact with previous is gradual over ~20 cm	
					101.55 - Big qz vein	
					103.6-104.3 - Alteration zone, crumbly and orange, diss. py, po, cpy, moly	
					104.3 - Few visible specks of cpy	
					106.0 - Other veined sulf-rich zone with po+py+cpy	
					108.3-109.1 - Altered zone around chlorite vein with orange color and big py veins	
					110.2 - Altered zone around chlorite vein with orange color and big py veins	
					112.4-112.5 - Waxy serpentine veins	
114.4	114.6			Net-textured sulphides	"bands" of net-textured pyrite and pyrrhotite (separate)	
					Tr visible cpy in po band	
					Particles are rounded plagioclase (up to 1cm), tabular to acicular hornblende (<0.5 mm) and oxides (<1mm).	
					Both contacts are sheared - up hole contact is folded siliceous bands with po along foliation.	
114.6	118.2			Garnetiferous metapyroxenite (amphibolite)	Bands rich in garnets	
					Magnetite-rich	
					Up to 3% sulphides - py and/or po - finely disseminated or in veins	
					116.5-118.2 - Less mt, big gt porphyroblasts	
118.2	118.8			Medium-grained garnetiferous melagabbro	30% pg, 15% gt, mafic minerals=hb-chl-bt, some oxides	
118.8	119.2			Anorthosite	Strongly silicified	
					Brecciated at down hole contact, with big patches of mt+py+po	
119.2	119.4			Garnetiferous gabbro		
119.4	121.3			Fine grained garnetiferous metapyroxenite (amphibolite)	Garnets concentrated in bands of 1-3 cm, some very big ones	
					Foliated rock	

					Tr mt - very locally magnetic	
					Possible talc or other alteration mineral defining foliation	
121.3	121.6			Pyroxenite	Chunky pyroxene (or pseudomorphs) crystals, no garnet	
					Mt-rich	
					Not foliated	
121.6	124.0			Garnetiferous metapyroxenite (amphibolite)	Somewhat foliated	
					>10% mt	
					Big garnets	
					Tr py, diss and in veins	
124.0	125.5			Magnetite reef	80% mt with chlorite, garnet and pyrite	
125.5	127.0			Medium-grained melagabbro	Contains some megacrysts of pyroxene up to 3 cm in size	
					<15% pg	
					Possible olivine remnants	
127.0	127.6			Fine grained garnetiferous metapyroxenite (amphibolite)	Garnets only in center of intersection	
					Some oxides	
					Fine diss. po	
127.6	129.3			Medium-grained melagabbro	Local large garnet	
					Not magnetic	
129.3	135.1			Garnetiferous metapyroxenite (amphibolite)	Some pg locally	
					Variably magnetic from weak to strong	
					Contains what looks like pieces of the silicified rock	
					132.9-133.1 - 4 pieces of siliceous rock	
					133.3 - Piece of siliceous rock	
					134.2-134.4 - Piece of siliceous rock	
					134.6-135.0 - Piece of siliceous rock	
135.1	137.7			Melagabbro to pyroxenite	Alternating melagabbro and pyroxenite every 10 to 30 cm	
					Local garnet in gabbro	
137.7	139.3			Medium-grained layered gabbro	Rhythmic 0.5 to 1.5 cm layers anorthosite to pyroxenite	
					Up to 4 cm garnet porphyroblasts	
139.3	141.5			Melagabbro to pyroxenite	Alternating melagabbro and pyroxenite every 10 to 30 cm	
					Local garnet in gabbro	
141.5	142.5			Silicified rock?		

142.5	147.0			Hb-bt medium-grained leuco to mezogabbro	Very homogeneous	
					No oxide, no garnet, no sulphides except near silicified rock "fragments"	
					143.5 - Small fragment of silicified rock	
147.0	147.5			Silicified rock?		
147.5	148.7			Melagabbro	Foliated	
148.7	155.4			Hb-bt medium-grained leuco to mezogabbro	Very homogeneous	
					Contact with next is gradual	
					153.7 - "Fragment" of silicified rock	
155.4	157.7			Medium-grained melagabbro	Similar to previous but more mafic, some possible olivine remnants, some oxides	
157.7	158.0			Fine-grained pyroxenite	Chlorite-biotite, tr oxides, tr py	
158.0	158.4			Quartz vein with pyrite		
158.4	159.0			Fine-grained pyroxenite	Same as 157.7-158.0	
159.0	159.3			Medium-grained melagabbro		
159.3	161.3			Pyroxenite	Some possible olivine remnants	
161.3	166.7			Melagabbro	Some possible olivine remnants, also core of pyroxene remnants both with darker green coronas	
					Grades into following unit	
					166.2-166.4 - Pale zone of alteration with large py bleb	
					164.9 - White vein cut by shear??	
					166.75 - 2 cm white vein with garnet in gabbro down hole from vein	
166.7	170.0			Gabbro	Possible olivine remnants	
					Orientation of weak fabric is at low angle with core, locally almost parallel	
170.0	170.7			Silicified rock?	10 cm shear at both contacts, which are perfectly perpendicular to core	
					Looks like bleached rock? Possible anorthosite protolith?	
					Contains small garnets	
170.7	171.0			Hb-bt medium-grained leuco to mezogabbro	Similar to 148.7-155.4 but more biotite	
171.0	171.7			Fine-grained ultramafic	Possibly a dike - weak layering in previous unit seems to be cut by this unit	
					Looks like all chlorite	
					1 cm alteration zone in previous gabbro at up hole contact	
					Looks like small chilled at down hole contact	
171.7	173.8			Hb-bt medium-grained leuco to mezogabbro	Similar to 170.7-171.0	
					Down hole last 12 cm is more strongly foliated	

					173.2 - 5 cm ultramafic dike, not quite parallel to layers and has small chill margins	
173.8	173.9			Fine-grained ultramafic rock	Up hole contact is strongly foliated, down hole contact looks like layering	
					Some ilmenite near up hole contact	
173.9	175.4			Medium-grained melagabbro	Somewhat layered - slightly more mafic horizons but generally relatively massive	
					<30% pg, rest hb	
175.4	175.9			Fine-grained pyroxenite to melagabbro	Rhythmic layering, 2-5 cm layers	
175.9	178.0			Pyroxenite	Possible olivine remnants	
					Strong foliation	
					Some intersection of melagabbro are less foliated	
178.0	179.2			Medium-grained gabbro	Relatively homogeneous but grades into following unit	
					178.8 - 10 cm more melanocratic	
					178.8 - Small vein truncated by hairline shear	
179.2	179.8			Medium-grained melagabbro	Down hole contact is sheared with dissected veins	
179.8	179.9			Medium-grained leucogabbro	Biotite and ilmenite with coronas	
179.9	180.2			Silicified rock?	Similar to 170.0-170.7	
					Crumbly	
					Up hole contact looks sharp, almost intrusive	
180.2	183.5			Medium-grained gabbro	Not really layered	
					Areas with possible olivine remnants	
					181.1 - 5 cm siliceous zone with qz veins	
					182.65-183.15 - Zone of shear and qz veins; shear is close to perpendicular to core than fabric in gabbro	
					183.1 - Hairline shear displacing foliation	
183.5	183.7			Coarse-grained gabbro	Both contacts are sheared	
					Py in veins, disseminated po	
183.7	188.8			Altered pyroxenite	Blotchy altered rock, patches of dark greenish grey and pale greenish beige.	
					Darker patches are green to black chloritized augite/hornblende (90%; SEM confirmed) and tr qz (SEM confirmed).	
					Variety of textures, including some poikiolitic patches and graphic-looking areas.	
					Lighter colored patches are chemically similar but composed of paler fibrous to acicular augite to actinolite (80%), hypersthene (10-15%; SEM confirmed) and tr qz.	
					Both phases contain 1% fine diss ilm (SEM confirmed), 1% diss py and 4% diss po.	

					No pentlandite detected.	
					185.0-185.1 - Siliceous section around qz veins with garnet and one speck of moly	
					187.7 - Beginning of more po enriched zone	
					188.5 - Po in small veins and disseminated	
188.8	192.0			Fine-grained gabbro	With patches of coarse-grained gabbro - like pockets	
					Fine granular, homogeneous except for the coarse-grained pockets	
					Up hole contacts not clear - could be intrusive	
					Down hole contact is broken-up and sheared with bt and chl	
					Some ultramafic xenoliths with actinolite needles	
					Numerous qz veins	
					191.1 - 2 cm siliceous vein with slight displacement along hairline fracture	
192.0	194.1			Fine-grained ultramafic rock	Bt+chl+act needles	
					Local foliation is irregular	
					192.1 - Broken-up qz vein with biotite infilling	
					193.1-193.4 - Altered zone around qz veins - one straight, others discontinuous, forming blotches with bit of epidote alteration	
194.1	195.1			Porphyritic melagabbro and fine ultramafic rock	Looks like UM is intruding the gabbro but unclear	
					194.35 - Po enrichment in UM patch	
195.1	198.1			Coarse-grained melagabbro	Odd irregular texture with amoeboidal blebs of mafic mineral and interstitial plag	
					Some orientation of vague layering? at low angle with core	
198.1	198.5			Fine-grained ultramafic rock	Contact with next is gradual - more like layering - at low angle (~20o) to core	
					1% disseminated very fine po and py	
					2% slightly magnetic ilmenite	
198.5	199.3			Medium-grained gabbro	Homogeneous granular	
					Weak foliation at 40o to core	
199.3	199.6			Silicified rock?	Both contacts are sharp 1-2 cm shears	
					Small garnets	
199.6	201.8			Medium-grained melagabbro	Gets progressively more leucocratic toward down hole	
201.8	202.0			Silicified rock?	Same kind of contacts as 199.3-199.6	
					Gt-rich particularly at down hole contact	
202.0	202.8			Medium-grained gabbro	Similar to 199.6-201.8, more leucocratic	
					202.1-202.3 - Qz vein and related alteration with some epidote	
202.8	203.2			Medium-grained gabbro to pyroxenite	Layered	
					1% po	

203.2	204.8			Medium-grained mezo to leucogabbro	Same as previous but more leucocratic	
					203.6 - 2 cm UM section with small shear at down hole contact	
204.8	212.9			Medium-grained gabbro to pyroxenite	Rhythmic layering, orientation varies to almost parallel to core	
					212.4-212.9 - Foliated zone close to perpendicular to core with very sharp contacts and drag fold at down hole contact	
					212.6-212.7 - UM with po+py enrichment with vein	
212.9	213.1			Fine-grained mafic to intermediate dike		
213.1	213.3			Silicified rock?	With garnet	
					Shear at down hole contact with piece of siliceous rock dragged into UM and drag fold	
213.3	215.1			Leucogabbro to pyroxenite	Layered	
					Foliated sections close to perpendicular to core	
					214.1-215.1 - More altered zone, more UM with magnetite and possible olivine remnants	
215.1	215.3			Silicified rock?		
215.3	215.6			Leucogabbro to pyroxenite	Same as 213.3-215.1	
215.6	215.8			Silicified rock?		
215.8	216.9			Leucogabbro to pyroxenite	Same as 213.3-215.1	
216.9	217.5			Silicified rock?	Cuts layering	
217.5	219.1			Leucogabbro to pyroxenite	Same as 213.3-215.1	
219.1	219.9			Silicified rock?		
219.9	225.0			Medium-grained mezo to leucogabbro	Homogeneous	
					Occasional < 1cm ultramafic bands, otherwise very homogeneous	
					222.7 - 4 cm siliceous band	
					223.65 - Small mafic-intermediate dike	
					223.7-223.9 - UM band	
					224.6 - 5 cm of siliceous stuff	
					224.85-224.95 - Siliceous stuff	
225.0	225.2			Mafic to intermediate dike	Dike	
225.2	226.3			Medium-grained mezo to leucogabbro	Same as 219.9-225.0 with occasional small UM bands	
					225.2-225.4 - More UM zone, foliated and altered	
226.3	227.3			Silicified rock?		
227.3	228.6			Fine-grained pyroxenite	Pg porphyritic - phenocrysts < 1mm	
					Hb+chl+bt - I think	
					227.25-227.5 - Breccia zone with strong alteration (K and sericite?)	
					228.5 - Qz vein cutting small mafic-intermediate dike	

APPENDIX 3

Location of Assay Samples for Diamond-Drill Holes
06HB-01 to 06HB-10

06HB-01

From	To	Length	From	To	Length	From	To	Length
51.88	52.80	0.92	91.62	92.16	0.54	135.78	136.38	0.60
52.80	53.81	1.01	92.16	93.50	1.34	136.38	137.03	0.65
53.81	54.48	0.67	93.50	93.93	0.43	138.40	139.13	0.73
54.48	55.50	1.02	93.93	94.49	0.56	140.84	141.67	0.83
55.50	56.43	0.93	94.49	95.41	0.92	141.67	142.44	0.77
56.43	57.39	0.96	95.41	96.42	1.01	143.76	144.50	0.74
57.39	58.31	0.92	96.42	97.37	0.95	146.46	147.00	0.54
58.31	59.64	1.33	97.37	97.91	0.54	149.35	150.00	0.65
59.64	60.17	0.53	97.91	98.31	0.40	150.10	150.81	0.71
60.17	60.50	0.33	98.31	98.91	0.60	155.00	155.45	0.45
60.50	61.26	0.76	98.91	99.97	1.06	155.80	159.32	3.52
61.26	61.72	0.46	99.97	100.58	0.61	159.32	159.70	0.38
61.72	62.76	1.04	100.58	101.65	1.07	160.70	161.07	0.37
62.76	63.79	1.03	101.65	102.76	1.11	161.07	161.54	0.47
63.79	64.72	0.93	102.76	103.63	0.87	161.54	162.00	0.46
64.72	65.40	0.68	103.63	103.81	0.18	166.09	166.94	0.85
65.40	65.82	0.42	103.81	104.29	0.48	170.20	171.13	0.93
65.82	66.87	1.05	104.29	104.80	0.51	171.13	171.47	0.34
66.87	67.80	0.93	104.80	105.73	0.93	172.94	173.51	0.57
67.80	68.72	0.92	105.73	106.51	0.78	173.51	174.13	0.62
68.72	69.72	1.00	106.51	107.79	1.28	174.13	174.49	0.36
69.72	70.71	0.99	107.79	108.76	0.97	174.49	174.85	0.36
70.71	71.77	1.06	108.76	110.04	1.28	174.85	175.32	0.47
71.77	72.52	0.75	110.04	110.50	0.46	176.98	177.70	0.72
72.52	73.59	1.07	110.50	111.38	0.88	177.70	178.40	0.70
73.59	74.40	0.81	111.38	112.09	0.71	178.40	179.41	1.01
74.40	75.36	0.96	112.09	112.90	0.81	180.54	181.10	0.56
75.36	75.68	0.32	112.90	113.98	1.08	181.43	182.17	0.74
75.68	76.61	0.93	113.98	114.94	0.96	182.73	183.40	0.67
76.61	77.47	0.86	114.94	115.82	0.88	183.40	184.20	0.80
77.47	78.20	0.73	115.82	116.83	1.01	193.33	193.76	0.43
78.20	79.03	0.83	116.83	117.75	0.92	193.76	194.23	0.47
79.03	79.64	0.61	117.75	118.69	0.94	194.23	194.70	0.47
79.64	80.16	0.52	118.69	119.72	1.03	196.00	196.32	0.32
80.16	81.10	0.94	119.72	120.20	0.48	196.32	196.67	0.35
81.10	82.10	1.00	120.20	121.16	0.96	196.67	197.30	0.63
82.10	83.14	1.04	121.16	121.92	0.76	200.64	201.17	0.53
83.14	83.73	0.59	121.92	122.92	1.00	201.17	201.62	0.45
83.73	84.42	0.69	122.92	124.16	1.24	201.62	202.34	0.72
84.42	85.14	0.72	124.16	124.97	0.81	202.86	203.83	0.97
85.14	85.92	0.78	124.97	125.85	0.88	204.22	204.72	0.50
85.92	86.68	0.76	125.85	126.83	0.98	204.72	205.23	0.51
86.68	87.10	0.42	126.83	127.78	0.95	205.23	205.47	0.24
87.10	87.40	0.30	127.78	128.61	0.83	205.47	206.00	0.53
87.40	87.73	0.33	128.61	130.64	2.03	206.00	206.53	0.53
87.73	88.62	0.89	130.64	131.75	1.11	206.53	206.87	0.34
88.62	89.76	1.14	131.75	132.78	1.03	206.87	207.26	0.39
89.76	90.22	0.46	132.78	133.80	1.02	207.26	207.73	0.47
90.22	90.62	0.40	133.80	134.87	1.07	207.73	208.23	0.50
90.62	91.10	0.48	134.87	135.78	0.91			
91.10	91.62	0.52						

06HB-03

From	To	Length	From	To	Length
49.10	49.73	0.63	164.19	165.04	0.85
54.86	55.52	0.66	165.04	166.02	0.98
58.56	59.53	0.97	166.02	166.38	0.36
61.54	62.60	1.06	166.38	166.79	0.41
65.64	66.63	0.99	166.79	167.20	0.41
67.54	67.98	0.44	167.20	168.10	0.90
67.98	68.93	0.95	168.10	168.73	0.63
77.93	78.80	0.87	171.57	171.75	0.18
86.80	87.78	0.98	171.75	172.19	0.44
94.30	95.13	0.83	172.19	172.71	0.52
96.66	97.41	0.75	172.71	173.20	0.49
98.09	98.86	0.77	173.20	174.16	0.96
98.86	99.46	0.60	174.16	175.00	0.84
99.46	100.58	1.12	175.00	175.57	0.57
117.70	118.36	0.66	175.57	176.54	0.97
118.36	118.67	0.31	180.32	180.78	0.46
118.67	119.19	0.52	180.78	181.06	0.28
127.16	128.01	0.85	181.06	181.50	0.44
128.01	128.99	0.98	191.00	191.58	0.58
128.99	129.74	0.75	191.58	192.03	0.45
134.17	135.02	0.85	192.03	192.76	0.73
135.02	135.75	0.73	192.96	193.46	0.50
135.75	136.70	0.95	193.46	194.20	0.74
136.70	137.56	0.86	197.40	198.00	0.60
143.88	144.68	0.80	198.00	198.66	0.66
144.68	145.39	0.71	198.66	199.55	0.89
145.39	146.30	0.91	199.55	200.36	0.81
148.30	149.27	0.97	208.42	209.01	0.59
151.19	152.14	0.95	209.01	209.40	0.39
155.50	156.41	0.91	209.40	209.94	0.54
159.97	160.68	0.71	209.94	210.44	0.50
160.68	161.48	0.80	210.44	211.38	0.94

06HB-04

From	To	Length	From	To	Length
69.21	69.70	0.49	121.87	123.08	1.21
71.78	72.64	0.86	123.08	123.44	0.36
72.64	73.63	0.99	123.44	124.00	0.56
73.19	73.63	0.44	124	125.12	1.12
73.63	74.28	0.65	125.12	126.2	1.08
74.28	75.41	1.13	126.20	127.14	0.94
77.09	77.84	0.75	137.10	137.62	0.52
80.11	80.80	0.69	142.40	143.10	0.70
80.80	81.34	0.54	146.94	147.38	0.44
84.82	85.83	1.01	147.74	148.10	0.36
86.00	86.72	0.72	148.10	148.45	0.35
87.79	88.63	0.84	148.45	148.81	0.36
88.63	89.75	1.12	148.81	149.95	1.14
89.75	90.71	0.96	149.95	151.08	1.13
90.71	91.9	1.19	151.08	152.2	1.12
91.9	92.74	0.84	152.2	153.43	1.23
92.74	93.47	0.73	153.43	154.27	0.84
93.47	94.37	0.90	154.27	155.45	1.18
94.37	95.39	1.02	155.45	156.47	1.02
95.39	96.39	1.00	156.47	157.5	1.03
98.18	99.16	0.98	157.5	158.25	0.75
100.99	101.95	0.96	158.25	159.19	0.94
101.95	102.87	0.92	159.19	160.08	0.89
102.87	103.9	1.03	170.9	171.94	1.04
103.9	105.05	1.15	171.94	172.89	0.95
105.40	105.44	0.04	172.89	173.74	0.85
105.44	106.63	1.19	173.74	174.75	1.01
106.63	107.06	0.43	174.75	175.24	0.49
107.06	107.45	0.39	175.24	175.65	0.41
107.45	107.84	0.39	175.65	176.13	0.48
108.00	108.61	0.61	176.13	177.18	1.05
108.61	109.66	1.05	177.18	177.48	0.30
109.66	110.68	1.02	177.48	178.28	0.80
110.68	111.66	0.98	178.28	179.15	0.87
111.66	112.87	1.21	179.15	179.68	0.53
112.87	113.89	1.02	179.68	180.4	0.72
113.89	115	1.11	180.4	181.3	0.90
115	116.18	1.18	181.3	182.28	0.98
116.18	116.81	0.63	182.28	183.11	0.83
116.81	117.49	0.68	183.11	184.04	0.93
117.49	118.11	0.62	186.03	186.59	0.56
118.11	119.25	1.14	197.32	198.01	0.69
119.25	120.66	1.41	203.00	203.68	0.68
120.66	121.87	1.21			

06HB-05		
From	To	Length
66.14	67.06	0.92
84.50	85.34	0.84
98.88	99.69	0.81
109.04	109.73	0.69
109.73	110.47	0.74
112.11	113.05	0.94
124.02	124.45	0.43
130.02	130.80	0.78
130.80	131.45	0.65
134.52	135.08	0.56
142.14	142.50	0.36
147.20	147.92	0.72
155.45	156.14	0.69
156.33	156.76	0.43
167.35	168.33	0.98
175.60	176.33	0.73
177.15	177.94	0.79
181.88	182.73	0.85
194.80	195.16	0.36
196.09	196.75	0.66
196.75	197.26	0.51
197.26	197.78	0.52
211.93	212.48	0.55
215.99	216.76	0.77
216.76	217.43	0.67
227.45	228.16	0.71
270.90	271.64	0.74
271.64	272.47	0.83
190.64	191.41	0.77
299.04	299.72	0.68
301.23	301.64	0.41
308.69	309.53	0.84
309.53	310.55	1.02
310.55	311.14	0.59
311.14	311.87	0.73
311.87	312.67	0.80
312.67	313.23	0.56
313.23	314.18	0.95
314.18	314.64	0.46
319.72	320.70	0.98
320.70	321.68	0.98
321.68	322.10	0.42
322.10	323.09	0.99
323.09	323.67	0.58
323.67	324.67	1.00
324.67	325.59	0.92

06HB-06		
From	To	Length
56.69	57.21	0.52
57.21	57.79	0.58
57.79	58.71	0.92
60.60	60.96	0.36
60.96	61.42	0.46
61.42	62.44	1.02
62.44	62.95	0.51
62.95	63.70	0.75
65.30	66.08	0.78
66.08	66.86	0.78
66.86	67.48	0.62
68.29	69.22	0.93
91.97	92.85	0.88
92.85	93.13	0.28
93.13	94.02	0.89
94.49	95.30	0.81
102.27	102.75	0.48
105.33	105.66	0.33
109.86	110.50	0.64
113.70	114.68	0.98
115.82	116.58	0.76
129.32	129.95	0.63
129.95	130.80	0.85
132.97	133.73	0.76
133.73	134.24	0.51
134.24	135.15	0.91
147.20	148.40	1.20
153.20	153.98	0.78
153.98	154.97	0.99
179.96	180.76	0.80
186.41	187.23	0.82
187.23	188.28	1.05
188.28	188.98	0.70
188.98	189.70	0.72

06HB-07

From	To	Length	From	To	Length
45.72	47.20	1.48	98.58	99.32	0.74
47.70	50.50	2.80	99.32	100.31	0.99
50.50	51.50	1.00	100.31	101.34	1.03
57.04	57.91	0.87	101.34	102.24	0.90
57.91	58.91	1.00	102.24	102.82	0.58
59.49	60.33	0.84	102.82	103.17	0.35
60.33	61.28	0.95	108.37	109.62	1.25
61.28	62.18	0.90	109.62	110.65	1.03
62.18	62.72	0.54	110.65	111.50	0.85
62.72	63.66	0.94	111.50	112.35	0.85
63.66	64.65	0.99	118.39	119.10	0.71
64.65	65.46	0.81	119.10	120.07	0.97
65.46	66.52	1.06	120.07	121.01	0.94
66.52	67.29	0.77	121.01	121.92	0.91
67.29	68.27	0.98	121.92	122.91	0.99
68.27	69.26	0.99	122.91	123.70	0.79
69.26	70.24	0.98	123.70	124.63	0.93
70.24	71.21	0.97	124.63	125.40	0.77
73.15	74.07	0.92	128.29	129.12	0.83
74.07	74.87	0.80	129.12	130.07	0.95
74.87	75.71	0.84	132.55	133.51	0.96
77.41	78.33	0.92	135.64	136.31	0.67
78.29	79.33	1.04	136.31	137.07	0.76
79.33	80.25	0.92	137.07	138.03	0.96
80.25	81.09	0.84	138.03	138.65	0.62
81.09	82.06	0.97	141.60	142.55	0.95
82.06	82.99	0.93	142.55	143.60	1.05
83.00	83.89	0.89	143.60	144.74	1.14
83.89	84.83	0.94	144.74	145.11	0.37
84.83	85.58	0.75	145.11	146.01	0.90
89.44	90.35	0.91	146.01	146.68	0.67
92.67	93.56	0.89	146.68	147.39	0.71
93.56	94.49	0.93	147.39	148.31	0.92
94.49	95.62	1.13	148.31	149.00	0.69
95.62	96.65	1.03	149.00	149.64	0.64
96.65	97.54	0.89	149.64	150.33	0.69
97.54	98.58	1.04			

06HB-09

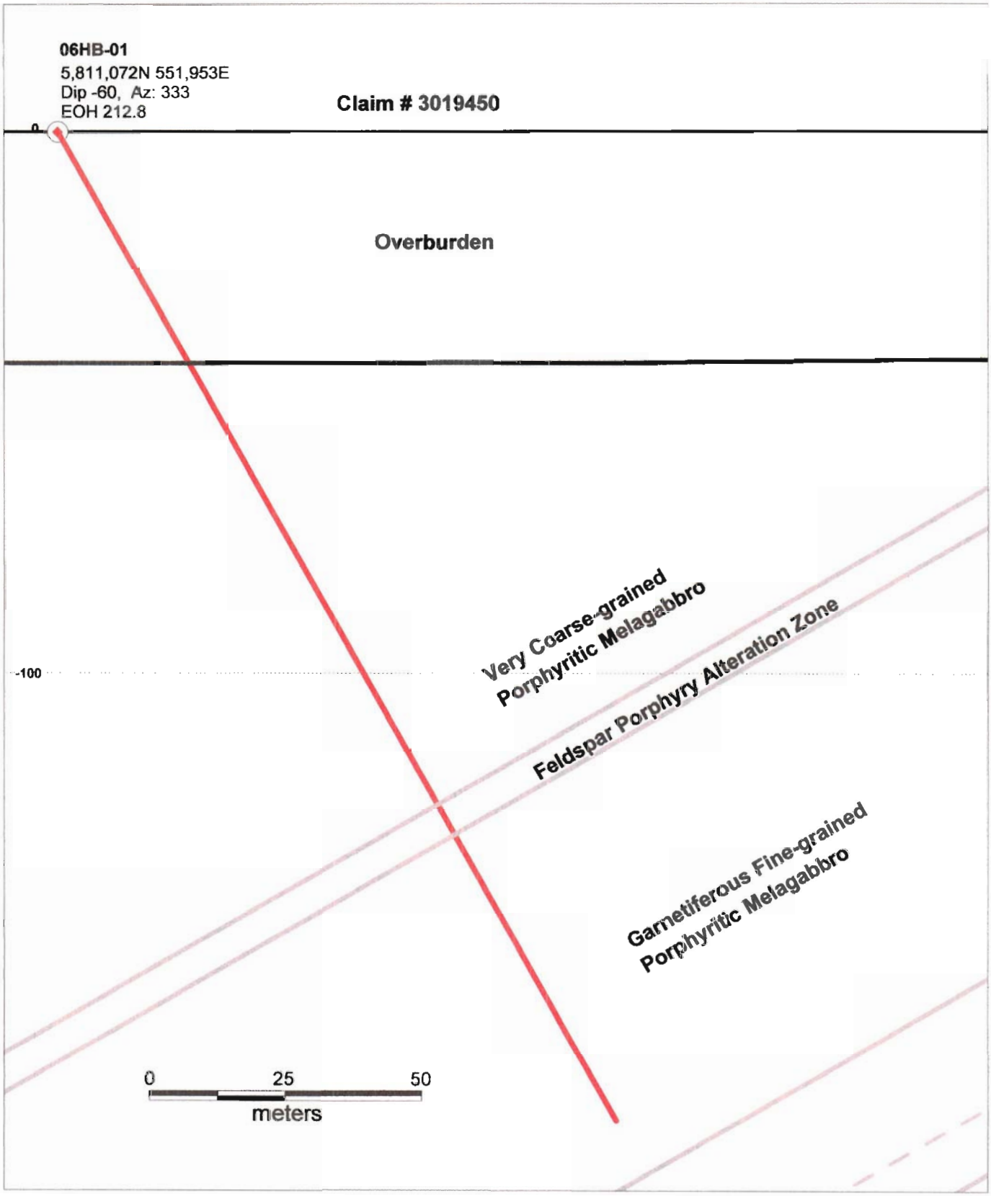
From	To	Length	From	To	Length	From	To	Length
54.86	56.00	1.14	167.71	167.96	0.25	195.00	195.32	0.32
56.00	56.60	0.60	167.96	168.58	0.62	195.32	195.77	0.45
56.60	57.20	0.60	168.58	168.90	0.32	195.77	197.75	1.98
58.00	58.70	0.70	168.90	169.36	0.46	197.75	198.80	1.05
78.60	78.90	0.30	169.36	170.21	0.85	198.80	199.74	0.94
80.92	81.63	0.71	170.21	170.88	0.67	199.74	200.15	0.41
81.63	82.30	0.67	171.27	171.57	0.30	200.15	201.17	1.02
85.20	85.70	0.50	171.57	171.87	0.30	201.17	201.74	0.57
88.86	89.57	0.71	171.87	172.73	0.86	201.74	202.23	0.49
89.57	90.39	0.82	172.87	173.19	0.32	202.23	202.96	0.73
98.49	99.11	0.62	173.19	173.60	0.41	202.96	203.25	0.29
102.57	102.80	0.23	173.60	174.09	0.49	203.57	204.40	0.83
102.80	103.37	0.57	174.09	174.51	0.42	204.40	205.10	0.70
117.98	118.61	0.63	176.59	176.93	0.34	205.10	205.42	0.32
118.61	118.87	0.26	176.93	177.28	0.35	205.42	206.50	1.08
118.87	119.11	0.24	177.28	177.70	0.42	206.50	206.82	0.32
119.11	119.42	0.31	177.70	178.00	0.30	206.82	207.46	0.64
119.42	120.01	0.59	178.00	178.35	0.35	215.28	216.25	0.97
120.01	120.74	0.73	178.35	179.05	0.70	217.87	218.75	0.88
120.74	121.60	0.86	179.05	179.40	0.35	218.75	219.10	0.35
121.60	121.92	0.32	179.40	179.72	0.32	222.05	222.87	0.82
111.18	111.68	0.50	179.72	180.72	1.00	222.87	223.77	0.90
111.68	112.25	0.57	181.75	182.10	0.35	223.77	224.31	0.54
112.25	112.73	0.48	182.10	182.42	0.32	225.35	225.80	0.45
112.73	113.31	0.58	182.42	183.12	0.70	225.80	226.48	0.68
113.31	113.68	0.37	183.12	183.68	0.56	228.04	229.00	0.96
113.68	114.23	0.55	183.68	184.05	0.37	229.00	229.51	0.51
142.20	142.40	0.20	184.05	184.35	0.30	229.51	229.78	0.27
142.49	142.96	0.47	184.35	185.10	0.75	229.78	230.45	0.67
142.96	143.37	0.41	185.10	185.39	0.29	230.45	230.80	0.35
143.37	143.69	0.32	185.39	185.74	0.35	230.80	231.46	0.66
147.46	147.86	0.40	185.74	186.13	0.39	231.46	232.20	0.74
147.86	148.80	0.94	186.13	186.45	0.32	232.20	233.20	1.00
148.80	149.16	0.36	186.45	186.95	0.50	233.90	234.50	0.60
149.16	149.99	0.83	186.95	187.50	0.55	234.50	235.29	0.79
149.99	150.33	0.34	187.50	187.80	0.30	235.29	235.65	0.36
158.40	158.92	0.52	187.80	188.48	0.68	235.65	236.00	0.35
158.92	159.48	0.56	188.48	188.78	0.30	236.00	236.75	0.75
159.48	160.25	0.77	188.78	189.52	0.74	236.75	237.10	0.35
161.54	162.01	0.47	189.52	189.84	0.32	237.10	237.40	0.30
162.01	162.31	0.30	189.84	190.35	0.51	237.40	237.93	0.53
162.31	163.30	0.99	190.35	190.85	0.50	237.93	238.40	0.47
163.30	163.61	0.31	190.85	191.48	0.63	238.40	238.75	0.35
165.05	165.35	0.30	191.48	191.90	0.42	246.71	247.21	0.50
165.35	166.19	0.84	191.90	192.36	0.46	254.40	254.95	0.55
166.19	166.50	0.31	192.36	193.00	0.64	254.95	255.55	0.60
166.50	166.85	0.35	193.00	193.37	0.37	255.55	256.03	0.48
166.85	167.35	0.50	193.37	194.24	0.87	256.03	257.32	1.29
167.35	167.71	0.36	194.24	195.00	0.76			

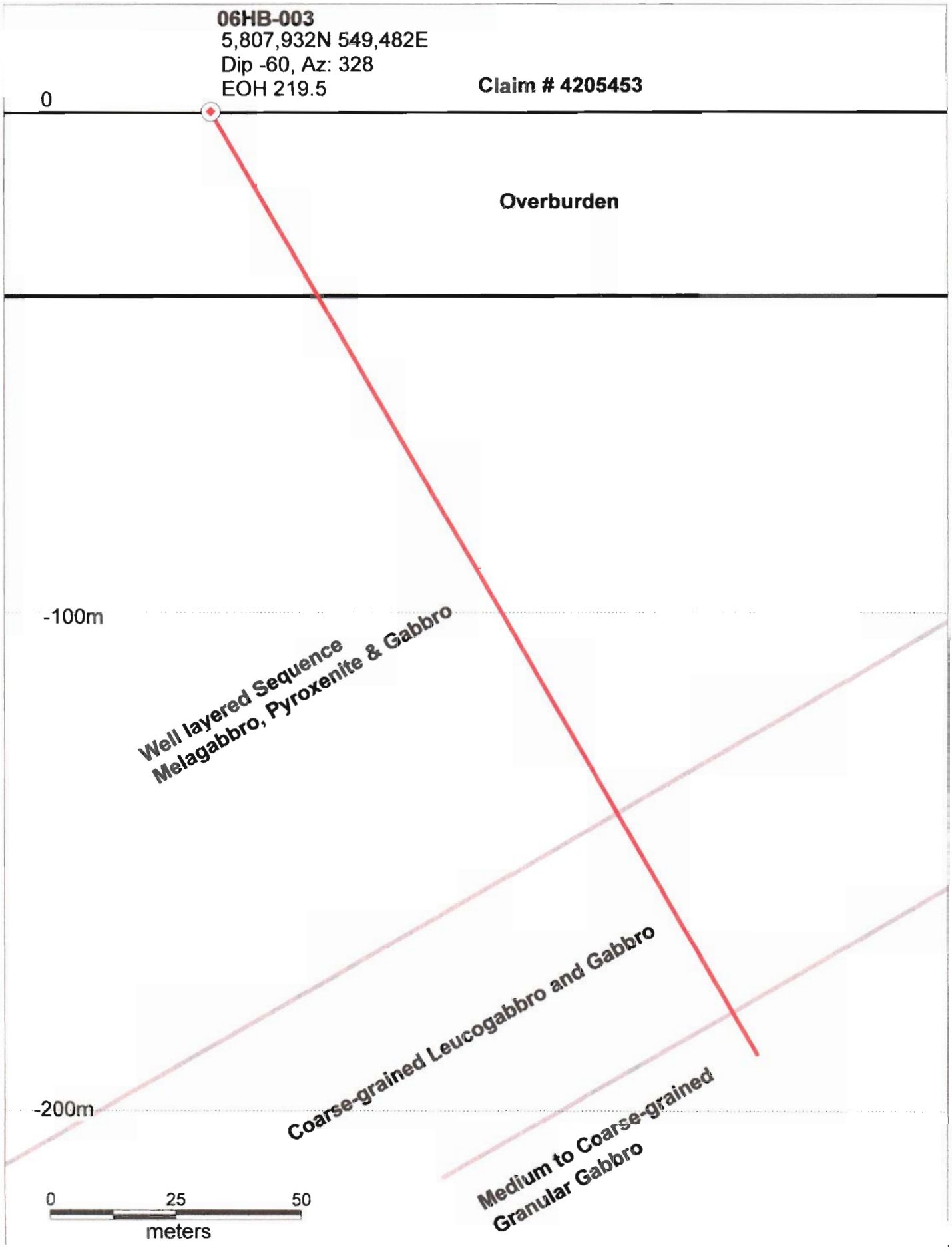
06HB-10

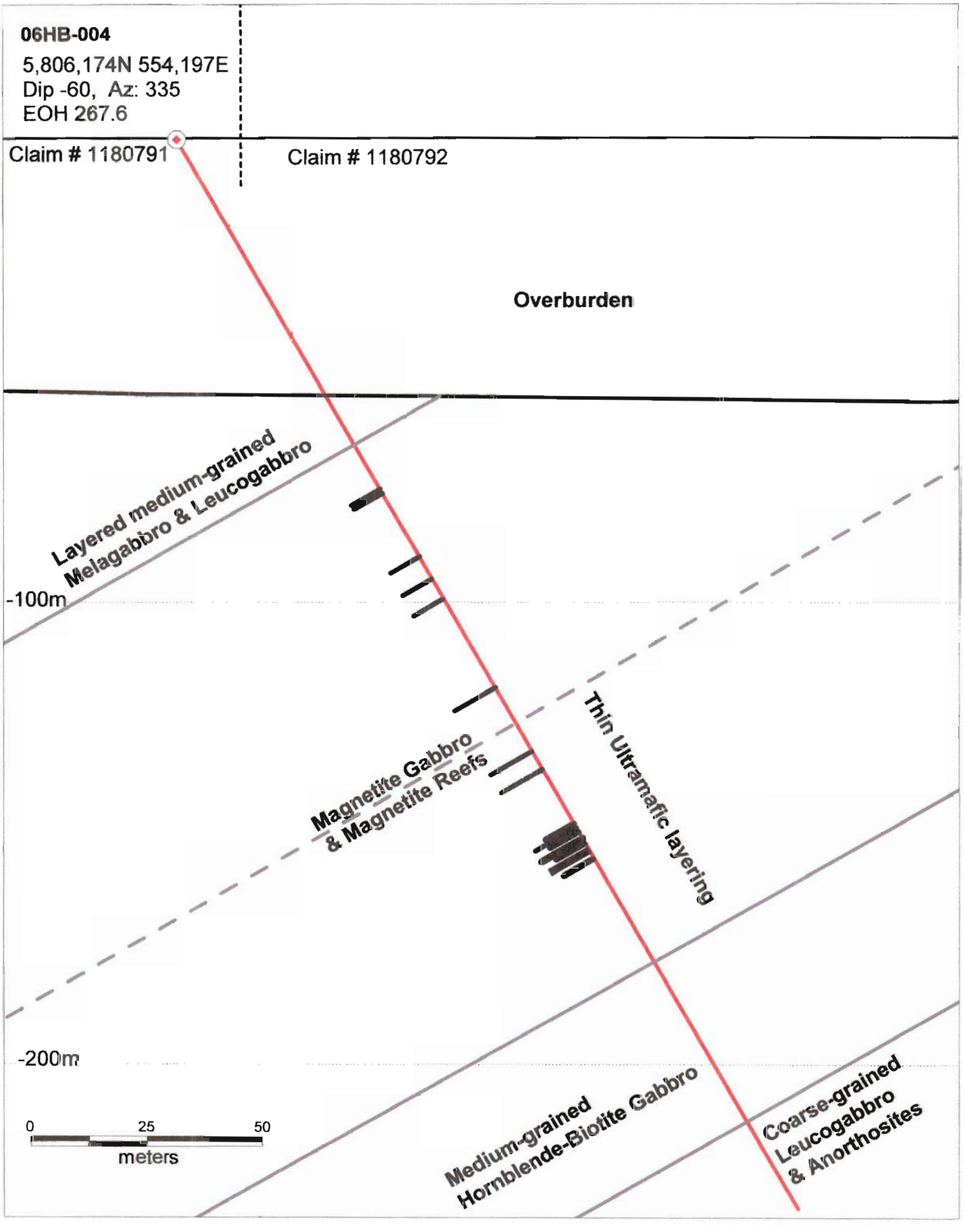
From	To	Length	From	To	Length
78.48	79.25	0.77	114.30	114.75	0.45
79.25	79.93	0.68	114.75	115.00	0.25
79.93	80.66	0.73	115.00	115.33	0.33
80.66	81.46	0.80	115.33	115.65	0.32
92.23	92.62	0.39	115.65	116.48	0.83
92.62	93.11	0.49	116.48	117.22	0.74
93.11	93.61	0.50	118.79	119.10	0.31
93.61	94.14	0.53	158.14	158.50	0.36
94.14	94.41	0.27	181.33	182.31	0.98
94.41	94.66	0.25	182.31	182.65	0.34
94.66	95.00	0.34	183.19	183.49	0.30
95.00	95.34	0.34	183.49	183.89	0.40
97.43	97.79	0.36	183.89	184.44	0.55
97.79	98.30	0.51	184.44	184.95	0.51
98.30	98.88	0.58	184.95	185.20	0.25
98.88	99.51	0.63	185.20	185.70	0.50
99.51	100.03	0.52	185.70	186.20	0.50
100.03	100.65	0.62	186.20	186.71	0.51
100.65	101.25	0.60	186.71	187.17	0.46
101.25	102.00	0.75	187.17	187.68	0.51
103.63	104.30	0.67	187.68	188.13	0.45
104.30	104.68	0.38	188.13	188.64	0.51
104.68	105.32	0.64	188.64	188.93	0.29
105.32	106.04	0.72	188.93	189.30	0.37
106.04	106.34	0.30	197.59	198.10	0.51
106.34	106.83	0.49	198.10	198.50	0.40
108.36	109.00	0.64	198.50	?	?
112.38	113.00	0.62	203.18	203.65	0.47
113.00	114.00	1.00	205.44	205.87	0.43
114.00	114.30	0.30			

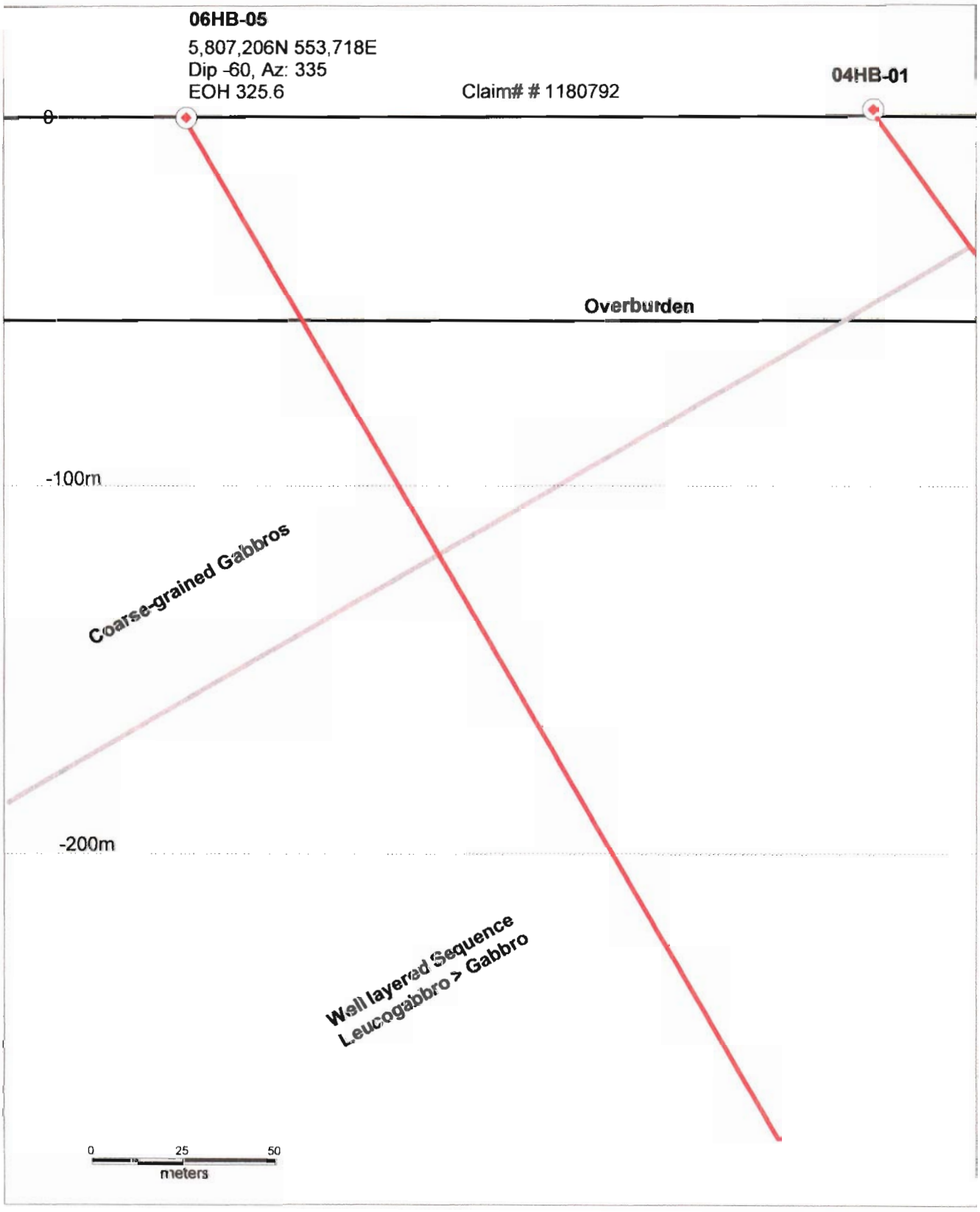
APPENDIX 4

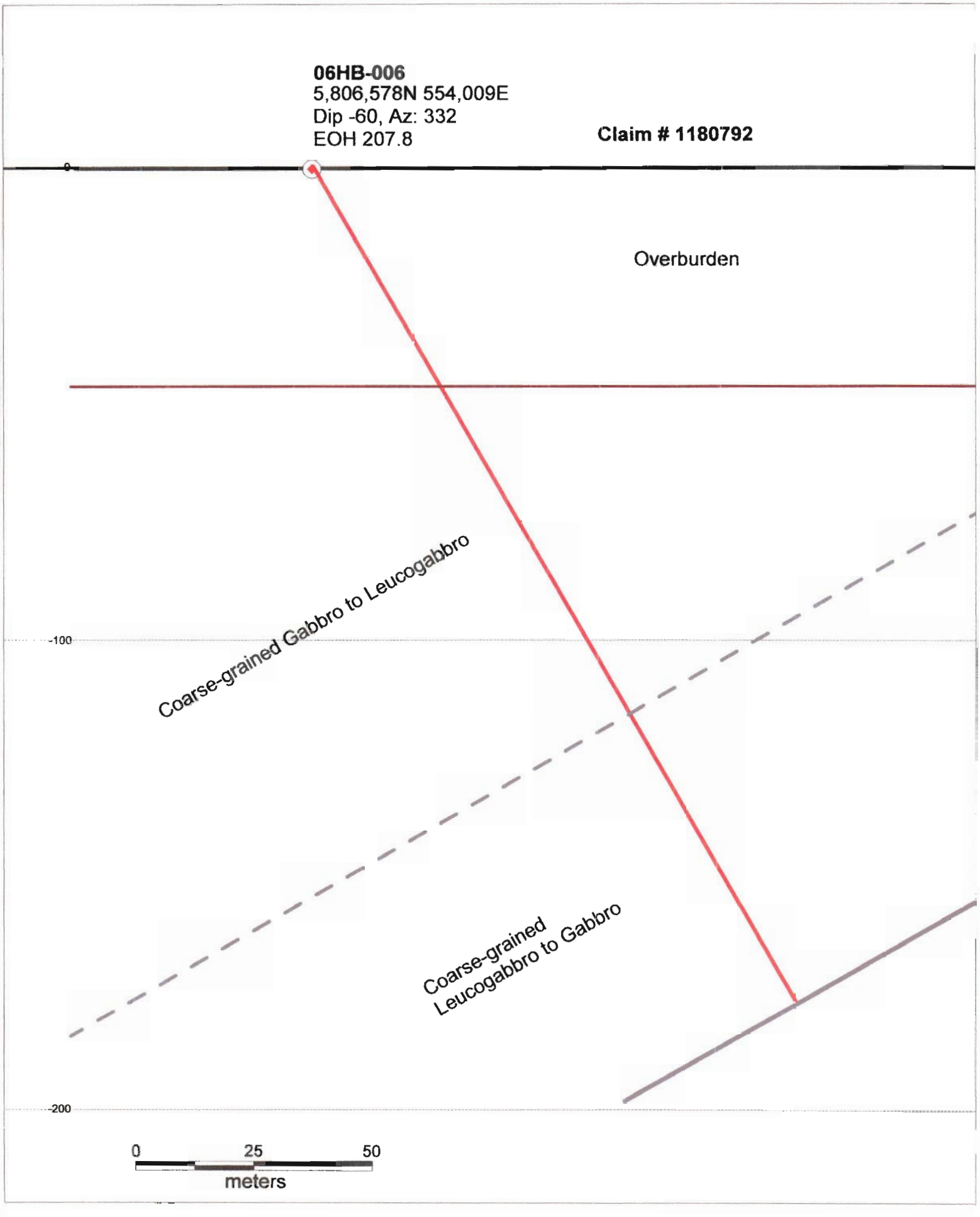
Sections for Diamond-Drill Holes
06HB-01 to 06HB-10

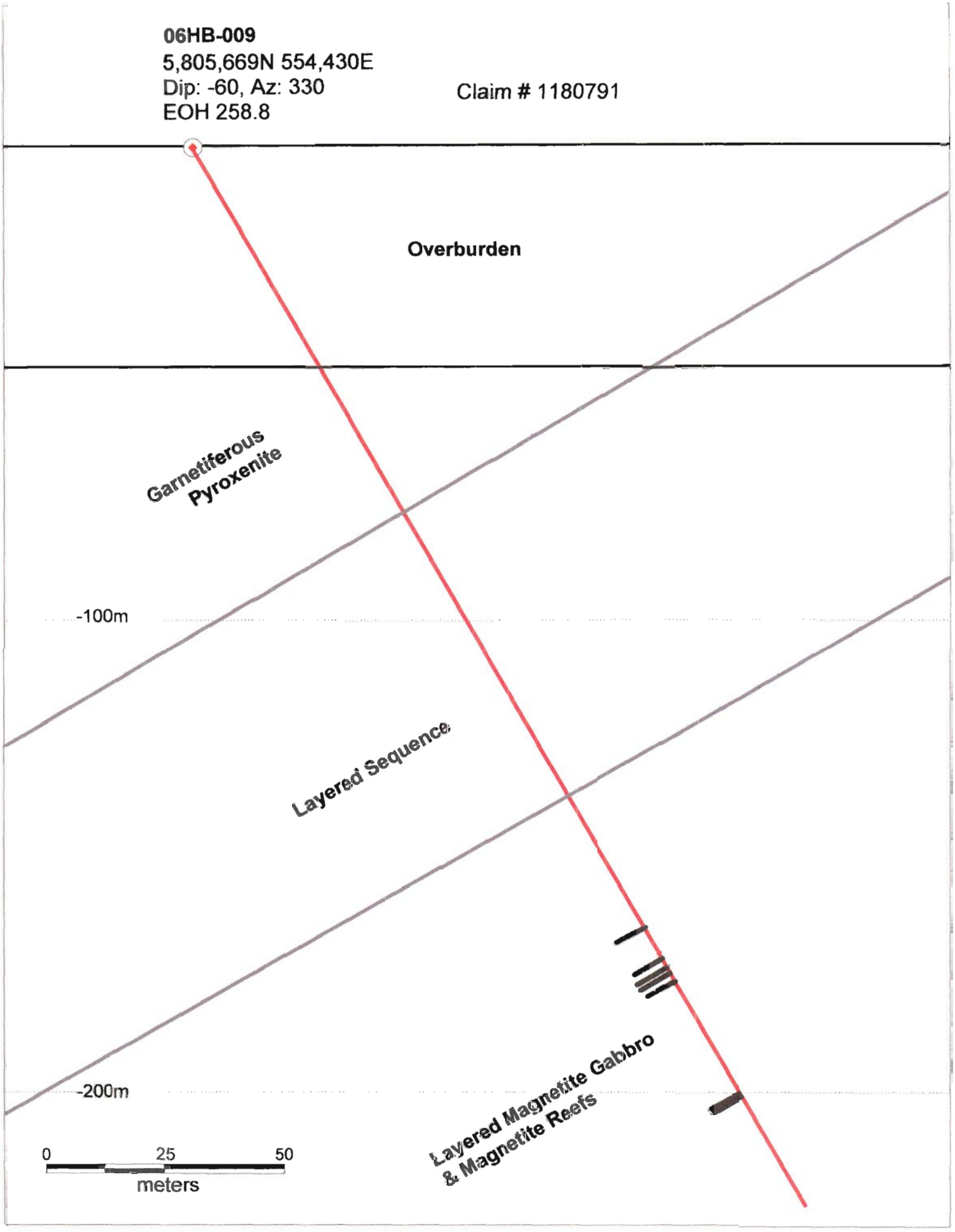

06HB-01
5,811,072N 551,953E
Dip -60, Az: 333
EOH 212.8
Claim # 3019450
0
Overburden
-100
Very Coarse-grained
Porphyritic Melagabbro
Feldspar Porphyry Alteration Zone
Garnetiferous Fine-grained
Porphyritic Melagabbro
0
25
50
meters

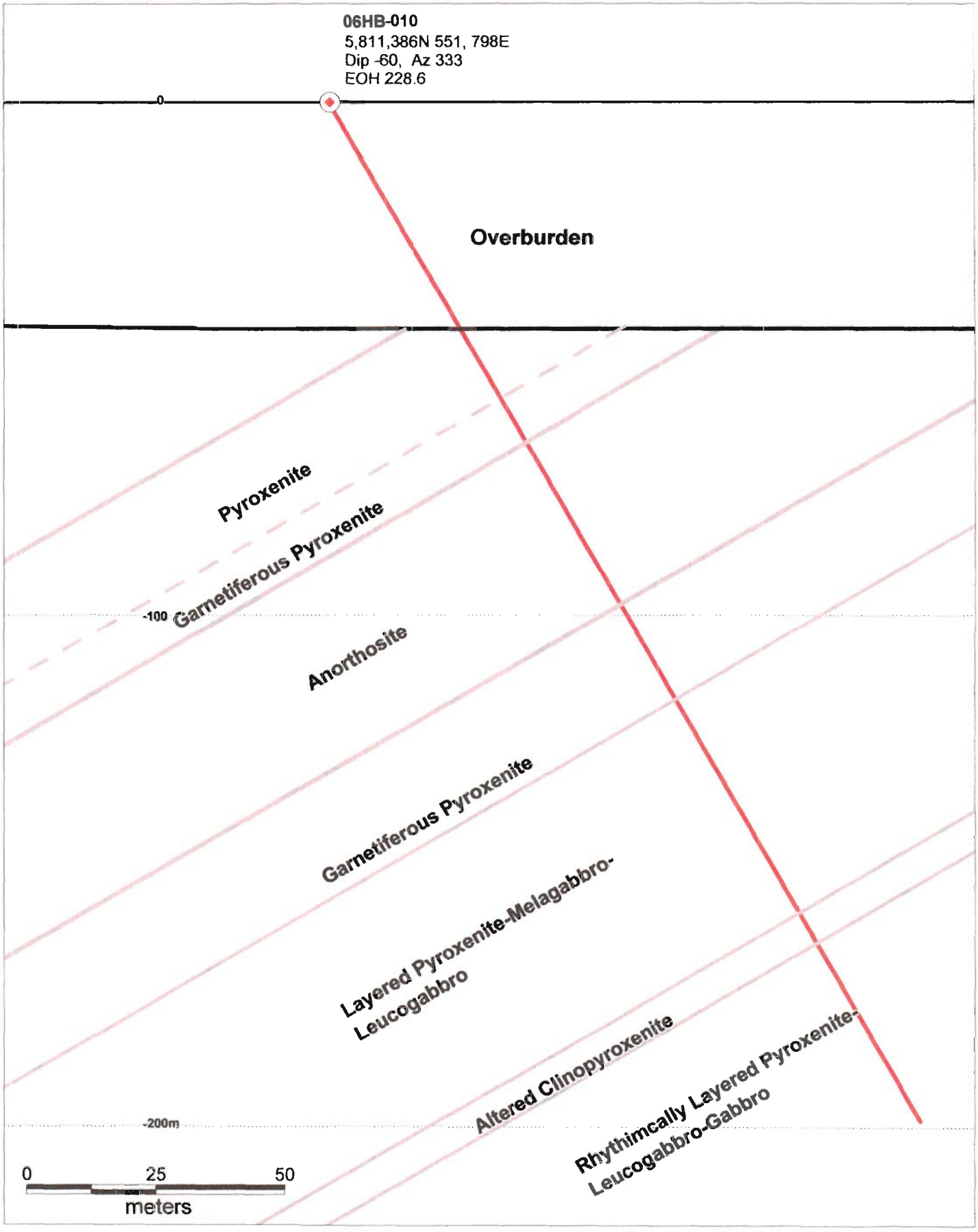

06HB-003
5,807,932N 549,482E
Dip -60, Az: 328
EOH 219.5
Claim # 4205453
0
Overburden
-100m
Well layered Sequence
Melagabbro, Pyroxenite & Gabbro
Coarse-grained Leucogabbro and Gabbro
-200m
Medium to Coarse-grained
Granular Gabbro
0
25
50
meters


06HB-004
5,806,174N 554,197E
Dip -60, Az: 335
EOH 267.6
Claim # 1180791
Claim # 1180792
Overburden
Layered medium-grained
Melagabbro & Leucogabbro
-100m
Magnetite Gabbro
& Magnetite Reefs
Thin Ultramafic layering
-200m
0
25
50
meters
Medium-grained
Hornblende-Biotite Gabbro
Coarse-grained
Leucogabbro
& Anorthosites
Magnetite reefs


06HB-05
5,807,206N 553,718E
Dip -60, Az: 335
EOH 325.6
Claim# # 1180792
04HB-01
0
Overburden
-100m
Coarse-grained Gabbros
-200m
Well layered Sequence
Leucogabbro > Gabbro
0
25
50
meters


06HB-006
5,806,578N 554,009E
Dip -60, Az: 332
EOH 207.8
Claim # 1180792
0
Overburden
-100
Coarse-grained Gabbro to Leucogabbro
Coarse-grained
Leucogabbro to Gabbro
-200
0
25
50
meters


06HB-009
5,805,669N 554,430E
Dip: -60, Az: 330
EOH 258.8
Claim # 1180791
Overburden
Garnetiferous Pyroxenite
-100m
Layered Sequence
-200m
Layered Magnetite Gabbro & Magnetite Reefs
0
25
50
meters
Magnetite Reefs


06HB-010
5,811,386N 551, 798E
Dip -60, Az 333
EOH 228.6
0
Overburden
Pyroxenite
Garnetiferous Pyroxenite
-100
Anorthosite
Garnetiferous Pyroxenite
Layered Pyroxenite-Melagabbro-Leucogabbro
Altered Clinopyroxenite
Rhythimcally Layered Pyroxenite-Leucogabbro-Gabbro
-200m
0
25
50
meters

TM06061431 - Finalized
CLIENT : "NORSHI - Northern Shield Resources Inc."
# of SAMPLES : 34
DATE RECEIVED : 2006-07-17 DATE FINALIZED : 2006-09-26
PROJECT : " "
CERTIFICATE COMMENTS : "**CORRECTED COPY FOR PGM-ICP24 ON SAMPLES 315758 & 315759**"
PO NUMBER : " "

	PGM-ICP24			ME-ICP61																									
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
315757	0.005	<0.005	<0.001	<0.5	9.49	7	40	<0.5	<2	7.66	<0.5	65	187	301	8.13	0.94	4.76	966	<1	1.22	228	60	<2	0.4	<5	202	0.24	184	<10	60
315758	0.002	<0.005	<0.001	<0.5	6.49	<5	30	<0.5	<2	5.29	<0.5	107	816	661	17.25	0.3	5.94	1225	1	0.61	502	60	<2	0.47	<5	66	1.18	1055	10	102
315759				1	8.12	12	330	0.7	<2	8.02	<0.5	60	163	3810	8.82	0.46	4.05	1290	1	1.72	266	1710	9	0.78	<5	662	0.54	303	<10	91
315760	<0.001	<0.005	0.003	<0.5	8.69	10	40	<0.5	<2	7.99	<0.5	66	353	142	9.53	0.44	5.56	1095	234	1.14	226	50	<2	0.27	<5	133	0.45	390	<10	67
315761	<0.001	<0.005	<0.001	<0.5	9.92	<5	30	<0.5	3	8.63	<0.5	13	45	38	2.28	0.24	1.13	323	1	2.16	35	30	2	0.05	<5	300	0.07	47	<10	19
315762	0.002	<0.005	<0.001	<0.5	8.05	<5	10	<0.5	<2	8.88	<0.5	51	359	92	7.21	0.16	5.87	1155	2	0.74	193	60	<2	0.05	<5	136	0.19	186	<10	53
315763	<0.001	0.005	0.001	<0.5	10.8	14	20	<0.5	<2	8.79	<0.5	31	71	31	4.02	0.05	2.35	539	8	1.67	114	60	<2	0.06	<5	263	0.07	56	<10	31
315764	<0.001	<0.005	<0.001	<0.5	11.1	8	40	<0.5	2	8.82	<0.5	18	70	101	2.7	0.2	1.35	353	80	2.07	52	70	<2	0.22	<5	271	0.07	60	<10	23
315765	<0.001	<0.005	<0.001	<0.5	10.65	5	30	<0.5	<2	8.73	<0.5	14	67	45	2.44	0.17	1.22	317	2	2.15	53	40	6	0.1	<5	265	0.07	52	<10	22
315766	<0.001	<0.005	0.001	<0.5	10.25	10	80	<0.5	<2	7.36	<0.5	43	90	46	5.26	0.48	3.57	715	28	1.71	136	60	<2	0.12	<5	249	0.1	74	<10	46
315767	<0.001	<0.005	<0.001	<0.5	9.93	<5	10	<0.5	<2	7.56	<0.5	38	42	116	8.1	0.12	3.2	1180	<1	1.14	76	440	2	0.24	<5	187	0.56	213	<10	65
315768	<0.001	<0.005	0.001	<0.5	9.06	9	50	<0.5	<2	7.7	<0.5	21	45	11	3.69	0.22	2.02	583	<1	2.21	71	30	<2	0.01	<5	255	0.09	72	<10	35
315769	0.001	<0.005	<0.001	<0.5	10.8	<5	30	<0.5	<2	8.8	<0.5	30	84	110	4.74	0.16	3.04	687	<1	1.8	80	70	<2	0.2	<5	241	0.12	127	<10	38
315770	<0.001	<0.005	<0.001	<0.5	0.36	<5	20	<0.5	<2	0.05	<0.5	<1	12	4	0.06	0.12	0.01	10	<1	0.01	<1	20	3	<0.01	<5	6	0.02	2	<10	2
315771	0.001	<0.005	<0.001	<0.5	9.81	<5	40	<0.5	<2	8.45	<0.5	17	53	326	3.06	0.15	1.53	380	1	2.28	37	50	4	0.14	<5	276	0.07	58	<10	24
315772	0.001	<0.005	0.004	<0.5	10.35	<5	10	<0.5	2	9.72	<0.5	19	130	112	4.09	0.02	1.9	609	<1	0.84	82	60	<2	0.09	<5	231	0.18	154	<10	26
315773	<0.001	<0.005	0.001	<0.5	10.2	<5	20	<0.5	2	8.35	<0.5	22	80	21	3.7	0.07	2.31	522	<1	2.1	67	40	<2	0.02	<5	271	0.08	91	<10	30
315774	0.001	<0.005	<0.001	<0.5	9.97	<5	10	<0.5	2	8.36	<0.5	39	96	72	5.01	0.05	3.31	734	<1	1.72	131	40	<2	0.04	<5	226	0.1	98	<10	40
315775	<0.001	<0.005	0.002	<0.5	9.87	5	10	<0.5	<2	8.84	<0.5	31	125	156	4.43	0.05	2.61	653	1	1.52	129	60	<2	0.14	<5	244	0.14	126	<10	32
315776	<0.001	<0.005	<0.001	<0.5	9	<5	10	<0.5	<2	7.41	<0.5	64	258	141	7.6	0.1	5.51	1065	1	1.28	192	50	<2	0.25	<5	143	0.17	170	<10	56
315777	0.001	0.005	0.007	<0.5	10.45	<5	20	<0.5	<2	8.56	<0.5	32	127	231	4.78	0.09	3.58	744	1	1.81	136	60	<2	0.13	<5	220	0.1	100	<10	36
315778	<0.001	<0.005	<0.001	<0.5	10.7	6	20	<0.5	<2	9.31	<0.5	24	156	60	4.07	0.06	2.19	589	1	1.93	63	50	<2	0.07	<5	265	0.21	172	<10	29
315779	<0.001	<0.005	0.001	<0.5	10.35	<5	40	<0.5	<2	8.97	<0.5	24	136	85	3.74	0.13	2.29	563	<1	1.82	73	30	<2	0.08	<5	285	0.13	131	<10	32
315780	<0.001	<0.005	<0.001	<0.5	10.3	9	20	<0.5	<2	9.08	<0.5	21	95	76	3.91	0.06	2.42	563	<1	1.7	64	50	<2	0.07	<5	250	0.15	140	<10	27
315781	0.118	0.445	1.16	0.9	8.52	<5	330	0.6	<2	8.34	<0.5	63	157	4000	9.09	0.47	4.18	1335	1	1.81	269	1820	10	0.83	<5	694	0.55	315	<10	95
315782	0.001	<0.005	0.001	<0.5	10.9	<5	20	<0.5	2	9.32	<0.5	22	82	196	3.75	0.07	2.15	541	<1	2.05	81	40	<2	0.1	<5	231	0.11	121	<10	26
315783	<0.001	<0.005	<0.001	<0.5	11.3	<5	20	<0.5	<2	8.93	<0.5	25	108	110	4.21	0.06	2.55	585	<1	1.85	72	40	<2	0.09	<5	246	0.14	148	<10	28
315784	0.001	<0.005	0.001	<0.5	9.94	9	10	<0.5	<2	9.38	<0.5	40	209	288	6.36	0.09	4.42	944	<1	1.12	143	30	2	0.18	<5	198	0.3	285	<10	43
315785	0.002	0.009	0.006	<0.5	10.3	<5	50	<0.5	2	8.61	<0.5	32	76	201	3.97	0.3	2.53	534	1	1.82	126	70	<2	0.06	<5	290	0.09	69	<10	29
315786	<0.001	<0.005	0.006	<0.5	10.15	7	340	0.5	<2	8.11	<0.5	44	113	121	6.09	0.77	4.32	997	2	1.9	146	1240	<2	0.94	<5	786	0.23	112	<10	52
315787	<0.001	<0.005	0.002	<0.5	9.73	<5	510	1	<2	7.62	<0.5	33	46	227	6.46	0.85	3.08	1160	1	2.28	68	2270	<2	1.06	<5	1285	0.33	163	<10	51
315788	<0.001	<0.005	0.003	<0.5	7.28	5	30	<0.5	<2	8.39	<0.5	55	261	143	7.87	0.17	6.71	1330	1	0.79	181	60	8	0.14	<5	112	0.2	175	<10	59
315789	<0.001	<0.005	0.002	<0.5	10.55	7	70	<0.5	<2	8.45	<0.5	20	136	56	3.49	0.36	2.4	590	1	2.36	75	60	<2	0.06	<5	303	0.12	95	<10	35
315790	<0.001	<0.005	0.001	<0.5	11	5	110	<0.5	<2	7.69	<0.5	19	106	66	3.45	0.63	2.9	613	6	2.31	63	60	<2	0.03	<5	239	0.1	74	<10	39

TM06061436 - Finalized
CLIENT : "NORSHI - Northern Shield Resources Inc."
# of SAMPLES : 33
DATE RECEIVED : 2006-07-19 DATE FINALIZED : 2006-08-25
PROJECT : " "
CERTIFICATE COMMENTS : ""
PO NUMBER : " "

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
315791	0.022	<0.005	0.001	<0.5	11.5	5	60	<0.5	2	9.01	<0.5	148	51	1060	7.89	0.22	2.93	911	1	1.54	80	1350	<2	2.71	<5	1090	0.28	162	<10	38
315792	<0.001	<0.005	0.001	<0.5	0.38	<5	20	<0.5	<2	0.05	<0.5	1	4	14	0.07	0.13	0.03	11	<1	0.01	<1	40	2	0.01	<5	7	0.02	2	<10	2
315793	0.002	<0.005	0.001	<0.5	9.63	11	120	<0.5	2	8.59	<0.5	45	188	158	5.6	0.46	4.73	1100	1	1.59	133	40	<2	0.12	<5	212	0.21	164	<10	52
315794	0.009	<0.005	0.001	0.6	10.9	<5	40	<0.5	2	9.34	<0.5	28	139	129	4.03	0.17	3.09	709	1	1.65	90	30	<2	0.13	<5	256	0.17	129	<10	31
315795	<0.001	<0.005	<0.001	<0.5	11	13	30	<0.5	<2	9.09	<0.5	29	154	46	4.49	0.15	2.91	659	<1	1.79	90	40	<2	0.06	<5	248	0.22	187	<10	37
315796	<0.001	<0.005	<0.001	<0.5	11.05	<5	20	<0.5	3	9.16	<0.5	30	105	61	5	0.12	2.76	638	1	1.82	106	50	<2	0.09	<5	242	0.28	240	<10	34
315797	0.007	<0.005	<0.001	<0.5	10.7	7	30	<0.5	4	8.96	<0.5	48	63	192	8.1	0.21	3.47	883	<1	1.45	220	30	<2	0.23	<5	196	0.67	536	<10	54
315798	0.001	0.006	0.001	<0.5	11.6	10	30	<0.5	<2	9.28	<0.5	39	58	225	6.42	0.19	2.97	753	<1	1.69	137	50	<2	0.26	<5	239	0.53	428	<10	44
315799	<0.001	<0.005	0.001	<0.5	11.7	12	40	<0.5	2	9.06	<0.5	42	79	266	6.27	0.26	2.61	753	1	1.87	146	60	<2	0.41	<5	244	0.6	462	10	44
315800	<0.001	<0.005	<0.001	<0.5	11.2	<5	40	<0.5	3	8.9	<0.5	24	37	134	4.98	0.18	1.92	578	<1	2.52	79	40	<2	0.23	<5	279	0.32	348	<10	30
315801	<0.001	<0.005	<0.001	<0.5	10.95	<5	50	<0.5	<2	8.87	<0.5	43	49	243	6.99	0.29	3.51	826	1	1.41	133	70	<2	0.5	<5	233	0.44	416	<10	54
315802	0.002	<0.005	0.001	<0.5	11.7	7	20	<0.5	3	10	<0.5	31	55	88	5.54	0.16	2.81	729	<1	1.51	100	60	<2	0.16	<5	262	0.32	244	<10	42
315803	0.115	0.474	1.345	1.6	8.7	<5	330	0.6	3	8.43	<0.5	63	146	3980	9.2	0.48	4.43	1390	1	1.88	288	1760	10	0.87	<5	713	0.61	313	<10	101
315804	0.001	0.007	0.004	<0.5	11	<5	30	<0.5	2	9.2	<0.5	25	31	89	3.33	0.11	2.12	486	1	2.27	57	50	<2	0.13	<5	279	0.08	56	10	30
315805	<0.001	<0.005	0.001	<0.5	11.15	<5	40	<0.5	2	8.66	<0.5	31	41	54	4.06	0.15	2.76	591	<1	2.08	93	50	<2	0.09	<5	291	0.08	57	<10	37
315806	<0.001	<0.005	0.002	<0.5	9.78	<5	40	<0.5	3	7.55	<0.5	25	34	168	4.35	0.12	1.98	691	<1	2.01	46	800	<2	0.54	<5	764	0.24	132	<10	32
315807	<0.001	0.006	0.003	<0.5	11	<5	50	<0.5	<2	8.96	<0.5	26	58	52	3.71	0.16	2.57	581	<1	2.31	115	60	<2	0.06	<5	352	0.09	70	<10	35
315808	<0.001	0.007	0.003	<0.5	9.17	<5	30	<0.5	<2	8.43	<0.5	54	180	18	6.88	0.14	5.92	1115	1	1.37	213	50	<2	0.04	<5	185	0.18	159	<10	58
315809	<0.001	<0.005	0.001	<0.5	10.4	<5	60	<0.5	3	8.79	<0.5	23	38	38	3.24	0.14	1.95	525	1	2.27	77	60	<2	0.06	<5	338	0.08	54	<10	27
315810	<0.001	0.005	0.001	<0.5	11.55	<5	80	<0.5	<2	8.68	<0.5	29	54	42	3.67	0.27	2.61	559	1	1.99	87	70	<2	0.04	<5	293	0.11	70	10	29
315811	<0.001	<0.005	0.002	<0.5	10.65	<5	140	<0.5	4	8.16	<0.5	23	148	140	3.42	1.11	2.3	492	1	2.09	84	70	<2	0.19	<5	299	0.21	121	<10	35
315812	<0.001	0.005	0.001	0.5	9.34	<5	80	<0.5	4	6.63	<0.5	36	192	117	5.16	1.07	3.43	670	2	1.43	119	80	20	0.11	<5	213	0.3	161	10	80
315813	<0.001	<0.005	<0.001	<0.5	10.45	10	20	<0.5	2	8.93	<0.5	21	165	40	3.46	0.25	2.4	546	1	1.83	67	50	<2	0.02	<5	264	0.18	135	10	30
315814	<0.001	<0.005	<0.001	<0.5	0.37	<5	10	<0.5	<2	0.05	<0.5	1	3	5	0.06	0.12	0.03	13	<1	0.01	<1	40	<2	0.01	<5	5	0.02	2	10	2
315815	0.001	<0.005	0.002	<0.5	10.45	14	20	<0.5	2	10.1	<0.5	39	273	48	5.74	0.32	4.44	974	1	1.1	170	50	<2	0.02	<5	202	0.3	225	<10	51
315816	<0.001	<0.005	0.001	<0.5	6.17	<5	<10	<0.5	7	10.2	<0.5	48	272	62	7.55	0.11	7.26	1405	2	0.38	162	50	<2	0.02	<5	96	0.33	248	<10	76
315817	0.001	0.006	0.001	<0.5	8.56	<5	10	<0.5	3	9.75	<0.5	36	220	106	5.46	0.19	4.98	1025	7	1.01	125	40	<2	0.03	6	175	0.26	200	<10	43
315818	0.002	<0.005	0.001	<0.5	7.06	<5	10	<0.5	2	9.9	<0.5	41	223	160	6.09	0.19	5.89	1190	2	0.62	143	30	<2	0.05	<5	148	0.28	209	<10	46
315819	0.001	<0.005	0.001	<0.5	7.06	<5	10	<0.5	4	10.6	<0.5	40	198	22	6.13	0.1	5.83	1230	3	0.41	129	40	<2	<0.01	<5	142	0.26	191	<10	57
315820	<0.001	<0.005	0.001	<0.5	8.87	<5	40	<0.5	<2	9.15	<0.5	11	142	44	2.14	0.33	0.91	307	<1	2.29	39	40	<2	0.01	<5	311	0.14	90	<10	18
315821	<0.001	<0.005	0.001	<0.5	9.16	<5	220	0.5	5	7.6	<0.5	12	157	17	2.34	1.13	1.29	351	2	2.09	43	40	<2	0.01	<5	344	0.16	110	<10	21
315822	<0.001	<0.005	0.001	<0.5	10.4	<5	60	<0.5	2	9.34	<0.5	28	145	52	4.44	0.44	3.45	772	1	1.77	89	70	<2	0.01	<5	298	0.21	135	<10	40
315823	0.003	<0.005	0.001	<0.5	9.47	<5	440	0.7	4	4.83	<0.5	16	99	72	2.91	1.02	1.79	435	<1	3.37	51	460	<2	0.13	<5	587	0.25	90	10	48

TM06062068 - Finalized
CLIENT : "NORSHI - Northern Shield Resources Inc."
# of SAMPLES : 90
DATE RECEIVED : 2006-08-03 DATE FINALIZED : 2006-09-05
PROJECT : " "
CERTIFICATE COMMENTS : ""
PO NUMBER : " "

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
315201	0.001	<0.005	<0.001	<0.5	6.58	6	110	<0.5	<2	4.55	<0.5	51	32	19	17.35	0.67	3.16	2210	<1	0.69	<1	>10000	5	0.02	10	107	2.31	27	10	80
315202	<0.001	<0.005	<0.001	<0.5	6.12	7	100	<0.5	<2	4.81	<0.5	57	1	21	19.6	0.54	2.97	2650	<1	0.73	<1	>10000	8	0.01	9	115	2.23	38	<10	85
315203	0.001	<0.005	<0.001	<0.5	6.38	<5	50	<0.5	<2	5.45	<0.5	52	42	25	17.25	0.47	2.81	2670	<1	0.97	<1	>10000	2	0.01	7	143	2.39	25	<10	91
315204	<0.001	<0.005	<0.001	<0.5	6.91	<5	110	<0.5	<2	3.37	<0.5	57	<1	33	19.6	1.95	3.36	2170	2	0.23	7	>10000	14	0.01	<5	123	2.7	36	10	55
315205	0.001	<0.005	<0.001	0.7	5.89	<5	30	<0.5	<2	5.59	<0.5	104	16	60	23.1	0.17	2.94	2380	3	1.03	19	7660	22	0.83	<5	67	2.73	73	<10	138
315206	<0.001	<0.005	<0.001	<0.5	6.89	<5	20	<0.5	<2	5.23	<0.5	104	1	49	21.8	0.12	3.28	2570	<1	0.93	17	>10000	20	0.33	<5	123	3.06	58	<10	147
315207	0.001	<0.005	<0.001	0.8	5.79	<5	20	<0.5	3	5.77	<0.5	101	19	46	23.5	0.11	3.35	2590	2	0.76	29	>10000	20	0.34	<5	74	4.17	84	<10	160
315208	0.016	<0.005	<0.001	<0.5	7.6	10	10	<0.5	<2	4.06	<0.5	86	32	53	19.6	0.08	3.84	2160	2	0.56	32	6650	18	0.66	<5	73	1.78	89	<10	132
315209	0.001	<0.005	<0.001	0.5	6.56	<5	10	<0.5	<2	7.03	<0.5	85	18	41	20.4	0.12	3.02	2390	1	0.84	20	>10000	13	0.39	<5	120	3.03	99	<10	140
315210	0.001	<0.005	<0.001	<0.5	6.67	<5	10	<0.5	<2	6.72	<0.5	80	6	53	19.2	0.12	2.99	2240	1	1.04	21	>10000	11	0.34	<5	168	2.48	92	<10	158
315211	0.133	0.338	1.23	2	9.17	<5	350	0.6	<2	8.02	<0.5	71	150	4140	9.33	0.45	4.08	1375	1	1.89	291	1810	27	0.79	<5	741	0.58	316	<10	100
315212	0.001	<0.005	0.001	<0.5	8.4	<5	570	1.2	<2	1.69	<0.5	6	47	18	1.86	0.86	0.37	192	1	4.11	3	450	11	0.07	<5	846	0.17	20	<10	42
315213	0.001	<0.005	<0.001	<0.5	9.7	<5	40	<0.5	3	8.27	<0.5	43	20	30	14.55	0.5	2.67	1830	8	1.09	<1	140	7	0.3	<5	200	2.81	110	10	133
315214	<0.001	<0.005	<0.001	<0.5	8.42	<5	10	<0.5	<2	8.39	<0.5	37	32	1	11.6	0.24	3.08	1740	1	1.27	<1	40	2	<0.01	<5	214	1.34	69	10	97
315215	<0.001	<0.005	<0.001	<0.5	9.95	7	30	<0.5	2	7.42	<0.5	39	2	22	10.05	0.27	2.76	1560	<1	2.22	<1	50	<2	0.1	<5	276	0.88	43	<10	82
315216	<0.001	<0.005	<0.001	<0.5	10.3	6	20	<0.5	4	6.66	<0.5	37	20	48	10.2	0.2	2.09	1370	<1	2.52	<1	60	<2	0.27	<5	318	1.31	58	<10	80
315217	<0.001	<0.005	<0.001	<0.5	7.44	<5	10	<0.5	<2	6.42	<0.5	62	1	60	17.65	0.2	3.6	2190	<1	1.3	6	80	<2	0.37	<5	71	2.46	97	10	148
315218	<0.001	<0.005	<0.001	<0.5	10.65	6	20	<0.5	<2	5.57	<0.5	44	22	8	11.75	0.13	2	1430	1	2.8	<1	80	2	0.06	<5	413	1.59	54	<10	95
315219	<0.001	<0.005	<0.001	<0.5	9.39	<5	10	<0.5	<2	5.28	<0.5	58	6	9	17.15	0.13	2.78	1970	<1	1.79	3	70	3	0.07	<5	193	2.41	96	10	137
315220	<0.001	<0.005	<0.001	<0.5	8.34	<5	10	<0.5	<2	6.29	<0.5	59	15	33	16.1	0.14	3.32	2100	<1	1.58	<1	80	<2	0.22	<5	193	2.11	93	20	133
315221	<0.001	<0.005	<0.001	<0.5	7.46	<5	10	<0.5	<2	6.24	<0.5	52	6	34	14.85	0.11	3.44	2090	<1	1.32	<1	30	<2	0.2	<5	184	1.74	83	10	121
315222	0.001	<0.005	<0.001	<0.5	0.31	<5	20	<0.5	<2	0.02	<0.5	2	2	3	0.05	0.11	0.02	8	<1	0.02	1	40	<2	0.01	<5	6	0.01	1	<10	<2
315223	<0.001	<0.005	<0.001	<0.5	5.53	<5	<10	<0.5	3	8.42	<0.5	63	14	21	17.3	0.09	4.99	2670	8	0.87	5	50	<2	0.15	<5	46	1.38	70	<10	143
315224	<0.001	<0.005	0.001	<0.5	10.3	<5	70	1	6	7.59	<0.5	36	10	50	8.44	0.33	2.86	1300	2	2.53	10	2550	<2	0.24	<5	635	0.82	187	<10	101
315225	<0.001	<0.005	<0.001	<0.5	9.42	<5	20	<0.5	<2	7	<0.5	43	15	20	11.35	0.18	3.06	1800	<1	2.26	<1	2410	4	0.13	<5	319	1.76	32	10	88
315226	<0.001	<0.005	<0.001	<0.5	8.55	<5	20	<0.5	3	8.85	<0.5	80	1	44	14.7	0.18	3.22	2060	<1	1.91	<1	5250	5	0.33	<5	205	2.08	57	<10	115
315227	<0.001	<0.005	<0.001	<0.5	7.93	<5	20	<0.5	<2	8.4	<0.5	57	12	47	14.5	0.19	3.35	2040	1	1.62	4	2440	8	0.27	<5	177	1.65	59	<10	109
315228	<0.001	<0.005	0.002	<0.5	8.16	<5	20	<0.5	<2	8.29	<0.5	58	60	32	13.95	0.2	3.46	1890	1	1.95	18	3610	<2	0.2	<5	288	1.68	82	<10	109
315229	<0.001	<0.005	<0.001	<0.5	8.01	<5	30	<0.5	<2	6.01	<0.5	90	8	80	21.2	0.46	3.45	2530	1	0.82	4	>10000	7	0.63	<5	47	3.63	99	<10	156
315230	<0.001	<0.005	<0.001	<0.5	7.78	<5	10	<0.5	5	4.79	<0.5	46	4	6	12.1	0.19	5.24	2180	<1	1.2	4	190	<2	0.02	<5	143	0.77	44	10	111
315231	<0.001	<0.005	<0.001	<0.5	3.69	8	<10	<0.5	<2	4.06	<0.5	79	7	85	18.7	0.08	6.43	3450	<1	0.49	1	120	<2	0.49	<5	2	1.75	50	10	156
315232	<0.001	<0.005	<0.001	<0.5	4.1	<5	<10	<0.5	4	3.82	<0.5	82	2	114	19.3	0.1	5.41	3150	1	0.52	9	30	2	0.93	<5	3	1.94	132	<10	156
315233	0.17	0.329	1.265	1.8	8.83	<5	340	0.6	<2	7.9	<0.5	68	154	4070	9.38	0.47	4.29	1370	<1	1.83	282	1830	9	0.81	<5	888	0.57	324	<10	96
315234	<0.001	<0.005	<0.001	<0.5	6.17	8	10	<0.5	<2	4.67	<0.5	66	13	73	16.4	0.14	4.91	2680	1	0.98	7	30	5	0.45	<5	86	1.8	89	<10	141
315235	<0.001	<0.005	<0.001	<0.5	8.86	<5	10	<0.5	<2	5.65	<0.5	40	15	17	11.5	0.11	2.99	1700	1	1.74	3	20	<2	0.18	<5	205	1.71	81	<10	103
315236	<0.001	<0.005	<0.001	<0.5	9.54	<5	20	<0.5	<2	6.15	<0.5	40	27	21	11.25	0.11	2.83	1650	1	2.04	8	30	<2	0.12	<5	240	1.77	89	10	101
315237	<0.001	<0.005	<0.001	<0.5	6.71	9	20	<0.5	<2	5.94	<0.5	46	15	22	12.05	0.09	2.81	1640	<1	1.74	9	40	<2	0.13	<5	198	2	108	10	103
315238	<0.001	<0.005	<0.001	<0.5	9.13	<5	40	<0.5	<2	6.3	<0.5	37	27	18	11.3	0.09	2.94	1680	1	1.88	8	30	<2	0.15	<5	224	1.78	85	<10	92
315239	<0.001	<0.005	<0.001	<0.5	9.82	<5	40	<0.5	<2	8.4	<0.5	42	14	25	11.2	0.07	3.17	1750	<1	2.11	10	30	<2	0.18	<5	233	1.48	69	10	95
315240	<0.001	<0.005	<0.001	<0.5	7.43	<5	40	<0.5	<2	3.62	<0.5	68	18	23	21.2	0.18	1.56	1870	<1	1.58	1	20	3	0.19	<5	201	7.59	380	<10	198
315241	<0.001	<0.005	<0.001	<0.5	6.73	5	20	<0.5	<2	3.09	<0.5	81	18	14	24.3	0.12	1.16	2010	<1	1.13	1	10	4	0.11	<5	161	9.4	466	<10	231
315242	<0.001	<0.005	<0.001	<0.5	6.61	<5	30	<0.5	<2	2.98	<0.5	84	38	20	24.9	0.12	1.31	2020	<1	1.18	3	20	3	0.17	5	145	8.7	478	<10	246
315243	<0.001	<0.005	<0.001	<0.5	7.01	<5	30	<0.5	<2	3.45	<0.5	71	20	13	22.5	0.14	1.48	1805	<1	1.36	3	10	6	0.12	<5	208	6.62	437	<10	179

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
315244	0.001	<0.005	<0.001	<0.5	0.34	<5	20	<0.5	<2	0.03	<0.5	<1	2	2	0.1	0.11	0.02	11	<1	0.01	<1	40	<2	0.01	<5	4	0.03	1	<10	<2
315245	<0.001	<0.005	<0.001	<0.5	6.93	<5	20	<0.5	<2	3.54	<0.5	80	14	17	24.2	0.14	1.15	2120	<1	1.14	6	10	3	0.15	<5	201	8.82	516	<10	167
315246	<0.001	<0.005	<0.001	<0.5	4.08	<5	10	<0.5	<2	1.42	<0.5	118	30	11	40.5	0.05	1.17	2550	<1	0.25	5	10	4	0.11	<5	24	>10.0	918	<10	315
315247	<0.001	<0.005	<0.001	<0.5	6.17	5	10	<0.5	<2	3.43	<0.5	115	47	131	29.4	0.12	2.57	2380	<1	0.77	8	10	9	1.21	6	21	7.09	685	<10	188
315248	<0.001	<0.005	<0.001	<0.5	6.64	<5	20	<0.5	<2	3.04	<0.5	94	15	12	31.2	0.07	0.94	2040	<1	0.96	5	20	7	0.08	5	181	9.62	739	<10	257
315249	0.001	<0.005	<0.001	<0.5	4.6	<5	20	<0.5	<2	1.98	<0.5	118	42	15	37.1	0.08	1.22	2260	<1	0.46	8	10	6	0.12	<5	41	>10.0	982	<10	311
315250	<0.001	<0.005	<0.001	<0.5	6.16	<5	20	<0.5	<2	2.88	<0.5	107	96	28	33	0.08	1.09	1885	<1	0.9	7	10	6	0.28	8	152	8.81	1050	<10	229
315251	0.001	<0.005	0.001	<0.5	4.84	<5	10	<0.5	<2	2.47	<0.5	99	53	16	36.1	0.11	1.59	2220	<1	0.55	7	20	10	0.16	<5	13	>10.0	1050	<10	289
315252	<0.001	<0.005	<0.001	<0.5	10.45	<5	60	<0.5	<2	5.22	<0.5	66	16	57	16.7	0.24	0.93	1215	<1	2.17	8	40	4	0.49	7	382	5.37	493	<10	137
315253	0.001	<0.005	<0.001	<0.5	10.65	<5	110	<0.5	<2	5.22	<0.5	67	26	42	12.7	0.42	1.06	1170	<1	2.43	8	340	3	0.74	<5	386	4.77	339	<10	103
315254	0.001	<0.005	<0.001	<0.5	7.7	<5	40	<0.5	<2	3.68	<0.5	85	15	78	17.8	0.21	1.04	1685	<1	1.73	10	150	2	0.67	<5	198	8.8	503	<10	138
315255	0.124	0.329	1.385	1.5	8.18	<5	330	0.6	<2	7.6	<0.5	59	138	3650	8.66	0.44	4.03	1305	<1	1.7	259	1660	14	0.72	5	668	0.55	302	<10	89
315256	0.001	<0.005	0.001	<0.5	9.96	<5	40	<0.5	<2	5.51	<0.5	70	16	74	14	0.3	1.16	1265	<1	2	8	40	5	0.6	<5	295	5.46	395	<10	94
315257	<0.001	<0.005	<0.001	<0.5	9.88	<5	50	<0.5	3	6.47	<0.5	50	7	36	12.35	0.33	1.93	1250	<1	2.01	6	40	4	0.27	<5	289	3.42	342	<10	112
315258	<0.001	<0.005	<0.001	<0.5	10.05	<5	60	<0.5	<2	5	<0.5	74	34	68	15.45	0.19	0.7	1105	<1	1.95	11	20	4	0.63	5	320	5.39	562	<10	125
315259	<0.001	<0.005	<0.001	<0.5	7.56	<5	30	<0.5	<2	6.27	<0.5	60	20	26	13.6	0.28	3.27	1595	<1	1.61	3	40	6	0.23	6	203	2.82	344	<10	306
315260	<0.001	<0.005	<0.001	<0.5	11.25	<5	110	<0.5	<2	5.85	<0.5	37	29	21	9.34	0.37	1.02	923	<1	2.54	3	40	5	0.14	<5	402	2.92	271	<10	78
315261	<0.001	<0.005	<0.001	<0.5	7.82	<5	20	<0.5	<2	5.53	<0.5	73	5	40	17.15	0.12	2.2	1515	5	1.44	7	30	6	0.31	<5	162	4.41	601	<10	167
315262	0.001	<0.005	0.002	<0.5	8.71	<5	20	<0.5	<2	5.22	<0.5	75	12	57	16.4	0.1	1.6	1375	<1	1.75	6	20	5	0.45	5	252	4.25	619	<10	154
315263	0.001	<0.005	0.001	<0.5	7.82	<5	10	<0.5	<2	5.6	<0.5	85	3	60	19.35	0.09	2.59	1770	<1	1.3	11	30	5	0.51	<5	145	4.26	702	<10	202
315264	<0.001	<0.005	0.001	<0.5	8.47	<5	10	<0.5	<2	6.25	<0.5	62	11	43	14.05	0.11	2.74	1495	<1	1.36	7	30	4	0.26	5	154	2.51	443	<10	129
315265	<0.001	<0.005	<0.001	<0.5	7.29	<5	10	<0.5	<2	5.88	<0.5	75	4	66	16.7	0.1	2.95	1675	<1	1.09	8	20	5	0.49	<5	93	3.15	587	<10	134
315266	<0.001	0.006	<0.001	<0.5	0.33	<5	10	<0.5	<2	0.04	<0.5	<1	2	2	0.09	0.11	0.02	12	<1	0.01	<1	40	<2	0.01	<5	3	0.02	2	<10	<2
315267	<0.001	<0.005	<0.001	<0.5	7.51	<5	20	<0.5	<2	5.34	<0.5	75	15	35	16.65	0.12	2.41	1560	<1	1.33	8	30	6	0.34	<5	127	3.6	639	<10	134
315268	<0.001	<0.005	<0.001	<0.5	7.4	<5	20	<0.5	<2	4.91	<0.5	80	13	57	18.5	0.11	2.09	1545	<1	1.37	9	20	6	0.5	7	154	4.03	748	<10	149
315269	<0.001	<0.005	<0.001	<0.5	9.75	<5	50	1.4	<2	5.56	<0.5	10	27	9	4.05	0.62	0.48	518	<1	3.58	1	140	8	0.1	<5	310	0.84	41	<10	54
315270	<0.001	<0.005	<0.001	<0.5	9.34	<5	60	1.4	<2	5.11	<0.5	6	8	22	3	0.61	0.3	409	<1	3.68	1	120	6	0.27	<5	349	0.62	30	<10	45
315271	<0.001	<0.005	<0.001	<0.5	9.24	<5	30	3.1	<2	5.29	<0.5	7	25	9	2.37	0.28	0.23	314	<1	4.16	<1	150	5	0.1	<5	333	0.49	26	<10	27
315272	0.001	<0.005	<0.001	<0.5	9.51	<5	40	<0.5	<2	6.47	<0.5	5	8	6	2.88	0.33	0.29	387	23	3.38	2	150	3	0.06	<5	375	0.51	23	<10	29
315273	<0.001	<0.005	<0.001	<0.5	8.89	10	60	0.7	<2	6.49	<0.5	6	28	7	2.43	0.43	0.27	344	<1	3.19	1	160	4	0.06	<5	385	0.39	20	<10	34
315274	<0.001	<0.005	<0.001	<0.5	9.12	<5	40	0.6	<2	6.7	<0.5	5	6	3	2.78	0.45	0.44	415	4	3.13	2	270	3	0.02	6	353	0.34	33	<10	38
315275	<0.001	<0.005	<0.001	<0.5	9.25	<5	40	1.6	<2	6.49	<0.5	6	24	5	2.32	0.56	0.27	345	9	3.44	1	190	4	0.05	<5	359	0.36	19	<10	32
315276	<0.001	<0.005	<0.001	<0.5	9.4	<5	80	2	<2	6.35	<0.5	4	10	8	2.25	0.64	0.26	317	5	3.8	4	290	9	0.07	<5	442	0.29	17	10	26
315277	0.143	0.386	1.33	1	7.9	<5	320	0.6	<2	8.05	<0.5	60	154	3750	8.66	0.44	4.08	1295	<1	1.71	263	1740	13	0.82	5	660	0.56	300	10	85
315278	<0.001	<0.005	<0.001	<0.5	8.85	<5	70	1.9	<2	4.4	<0.5	99	27	103	11.25	1.06	1.6	1180	1	2.36	30	620	5	3.13	5	328	1.89	81	<10	79
315279	0.001	<0.005	<0.001	<0.5	2.78	7	40	<0.5	<2	0.99	<0.5	95	83	89	39.2	0.96	1.35	2730	<1	0.2	32	60	<2	0.46	<5	8	>10.0	612	<10	143
315280	<0.001	<0.005	<0.001	<0.5	5.54	14	110	0.6	<2	2.91	<0.5	73	36	26	23.7	1.17	3.1	2180	<1	0.7	29	210	<2	0.24	<5	117	5.31	256	<10	132
315281	<0.001	<0.005	<0.001	0.5	3.82	15	30	<0.5	<2	2.34	<0.5	85	41	203	24.3	1.35	2.99	3380	1	0.33	11	110	<2	1.58	<5	12	9.06	336	<10	717
315282	<0.001	<0.005	<0.001	<0.5	4.57	<5	30	1.7	<2	2.03	<0.5	104	51	147	21	0.89	2.09	2310	<1	1.04	28	110	7	2.08	<5	114	5.77	220	<10	155
315283	<0.001	<0.005	<0.001	<0.5	5.89	<5	20	<0.5	<2	3.18	<0.5	71	13	23	22	1.46	2.84	2260	<1	1	18	110	<2	0.24	<5	78	5.52	171	<10	178
315284	<0.001	<0.005	<0.001	<0.5	5.96	7	20	<0.5	<2	3.46	<0.5	68	17	24	21.7	1.42	2.91	2390	<1	0.98	12	120	<2	0.23	<5	67	5.74	157	<10	173
315285	<0.001	<0.005	<0.001	<0.5	5.96	15	30	<0.5	<2	2.69	<0.5	78	15	33	22.5	1.74	2.83	2500	2	1.11	18	120	<2	0.28	<5	118	5.83	167	<10	145
315286	0.001	<0.005	<0.001	<0.5	5.77	34	50	<0.5	<2	2.75	<0.5	72	18	30	22.6	1.73	2.97	2530	1	0.97	12	120	<2	0.35	<5	95	6.73	179	<10	143
315287	0.001	<0.005	<0.001	<0.5	5.81	6	40	0.5	<2	3.34	<0.5	67	13	103	22.6	1.29	3.05	2730	<1	0.97	18	110	<2	1.31	<5	87	6.95	189	<10	162
315288	0.13	0.327	1.18	1	8.27	<5	330	0.7	<2	8.36	<0.5	61	156	3900	9.04	0.46	4.24	1350	<1	1.81	265	1830	12	0.85	<5	694	0.57	310	<10	87
315289	<0.001	<0.005	<0.001	<0.5	11.45	<5	60	0.9	<2	6.29	<0.5	25	33	48	7.53	0.94	0.73	955	3	3.13	5	270	7	0.73	<5	429	1.99	51	10	58
315290	0.002	<0.005	<0.001	<0.5	9.71	<5	50	1	4	6.13	<0.5	18	15	19	3.19	1.05	0.25	331	10	3.46	5	360	3	0.82	<5	445	0.36	14	<10	18

TM06063712 - Finalized
CLIENT : "NORSHI - Northern Shield Resources Inc."
# of SAMPLES : 206
DATE RECEIVED : 2006-07-12 DATE FINALIZED : 2006-08-04
PROJECT : " "
CERTIFICATE COMMENTS : ""
PO NUMBER : " "

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
315551	0.003	<0.005	<0.001	<0.5	6.68	<5	10	1.1	<2	7.19	<0.5	58	31	275	13.45	0.21	3.91	1615	<1	0.97	145	240	3	0.28	8	126	1.63	738	<10	104
315552	0.003	0.011	<0.001	<0.5	6.66	<5	20	<0.5	<2	6.83	<0.5	59	58	210	13.9	0.23	3.87	1635	<1	1.07	142	490	2	0.55	<5	144	1.68	740	<10	100
315553	0.001	<0.005	<0.001	<0.5	6.04	<5	20	1.5	<2	6.42	<0.5	54	19	213	12.75	0.23	4.12	1640	<1	1.02	125	60	5	0.57	5	105	1.45	666	<10	93
315554	0.001	<0.005	<0.001	<0.5	6.94	<5	20	<0.5	<2	7.31	<0.5	58	25	156	13.8	0.22	4.04	1635	<1	1.1	130	170	4	0.24	5	164	1.66	674	<10	100
315555	0.001	0.005	<0.001	<0.5	6.61	<5	10	<0.5	<2	7.31	<0.5	59	31	160	12.55	0.19	3.82	1525	<1	0.95	120	200	7	0.26	6	132	1.58	659	10	102
315556	<0.001	0.005	<0.001	<0.5	6.43	<5	10	<0.5	<2	7	<0.5	69	20	252	15.45	0.2	4.38	1750	<1	1.03	162	80	3	0.41	6	92	1.88	844	<10	117
315557	0.001	<0.005	<0.001	<0.5	7.34	<5	20	<0.5	<2	7.12	<0.5	57	20	138	12.05	0.25	4.19	1545	<1	1.31	106	100	2	0.43	5	151	1.2	523	<10	98
315558	<0.001	<0.005	0.001	0.7	6.96	<5	10	1.3	<2	7.11	<0.5	59	19	144	11.9	0.19	4.01	1545	<1	1.16	114	580	2	0.41	<5	136	1.34	613	30	101
315559	0.001	<0.005	<0.001	<0.5	6.39	<5	10	6.5	<2	6.84	<0.5	62	26	1395	15.15	0.15	3.72	1475	<1	0.93	345	90	10	5.05	<5	128	2.05	755	30	85
315560	0.001	<0.005	0.001	<0.5	7.72	<5	40	10.8	<2	5.9	<0.5	49	14	460	13.1	0.4	4.06	1470	<1	1.48	148	160	9	1.84	<5	133	1.06	530	10	93
315561	0.001	<0.005	<0.001	<0.5	6.54	<5	10	4.7	<2	7.09	<0.5	60	13	491	14.3	0.19	4.44	1865	<1	1.02	150	460	9	1.2	<5	95	2.14	939	10	114
315562	0.001	<0.005	<0.001	<0.5	7.34	<5	20	1.7	<2	6.84	<0.5	47	8	457	13.75	0.25	3.85	1695	<1	1.22	162	240	5	1.45	6	148	1.96	865	10	99
315563	<0.001	<0.005	<0.001	<0.5	8.27	<5	20	1.1	<2	7.13	<0.5	55	10	182	11.95	0.24	3.85	1560	<1	1.54	114	180	8	0.29	<5	183	1.32	591	<10	100
315564	<0.001	<0.005	0.001	<0.5	7.26	<5	10	<0.5	<2	6.8	<0.5	54	14	158	11.75	0.18	3.69	1480	<1	1.3	120	140	4	0.31	5	153	1.29	584	<10	93
315565	<0.001	<0.005	<0.001	<0.5	7.19	<5	20	2.4	<2	6.99	<0.5	60	9	283	12	0.22	4.09	1500	<1	1.3	120	440	3	0.65	8	149	1.13	529	<10	99
315566	<0.001	<0.005	<0.001	<0.5	7.19	<5	20	<0.5	<2	6.81	<0.5	61	5	115	12.05	0.23	4.35	1595	<1	1.41	120	180	2	0.21	<5	176	0.88	526	<10	100
315567	<0.001	<0.005	<0.001	<0.5	4.29	<5	10	<0.5	<2	6	<0.5	86	13	343	17.7	0.09	5.5	2330	<1	0.71	171	220	<2	0.61	7	37	1.95	868	<10	124
315568	<0.001	<0.005	<0.001	<0.5	6.87	<5	10	<0.5	<2	7.22	<0.5	67	9	168	13.9	0.18	4.25	1710	<1	1.09	128	160	2	0.24	<5	120	1.49	678	10	110
315569	0.001	<0.005	<0.001	<0.5	5.99	<5	10	<0.5	<2	6.86	<0.5	75	9	223	15.75	0.14	4.5	1880	<1	0.95	144	240	4	0.39	<5	95	1.85	871	10	120
315570	<0.001	<0.005	0.001	<0.5	7.12	<5	10	<0.5	<2	7.42	<0.5	65	10	230	14.6	0.17	4.22	1785	<1	1.13	127	230	7	0.34	5	145	1.82	769	<10	113
315571	<0.001	<0.005	<0.001	<0.5	7.43	<5	20	<0.5	<2	7.6	<0.5	51	6	79	11.1	0.19	4.11	1450	<1	1.22	92	350	<2	0.13	6	181	0.84	490	<10	94
315572	<0.001	<0.005	<0.001	<0.5	6.63	<5	10	<0.5	<2	6.98	<0.5	62	8	200	13.2	0.17	3.74	1620	<1	1.07	118	630	4	0.41	5	148	1.65	729	<10	100
315573	0.001	<0.005	<0.001	<0.5	6.71	<5	10	<0.5	<2	7.17	<0.5	75	4	239	15.2	0.16	4.11	1825	<1	1	130	240	5	0.4	<5	112	1.95	911	10	127
315574	<0.001	<0.005	0.001	<0.5	5.56	<5	10	<0.5	<2	6.24	<0.5	83	6	323	18.85	0.12	3.56	1910	<1	0.79	155	320	6	0.55	7	96	2.82	1375	<10	125
315575	<0.001	<0.005	<0.001	<0.5	7.17	<5	10	<0.5	<2	7.32	<0.5	59	4	122	12.35	0.15	3.97	1605	<1	1.18	96	220	2	0.2	5	157	1.3	583	<10	103
315576	<0.001	<0.005	<0.001	<0.5	6.76	<5	10	<0.5	<2	7.6	<0.5	69	5	176	14.85	0.16	4.38	1835	<1	1.03	122	530	<2	0.31	6	120	1.63	779	10	119
315577	<0.001	<0.005	0.001	<0.5	7.05	<5	20	<0.5	<2	6.98	<0.5	61	4	204	13.4	0.2	3.73	1585	<1	1.26	107	570	2	0.44	<5	174	1.56	817	<10	103
315578	<0.001	<0.005	0.001	<0.5	7.02	<5	30	1.3	<2	8.33	<0.5	52	4	170	14.85	0.23	3.9	1860	<1	0.94	52	3020	7	0.36	7	210	1.52	830	<10	112
315579	<0.001	<0.005	<0.001	<0.5	6.95	<5	20	<0.5	<2	7.22	<0.5	62	4	196	12.8	0.23	3.96	1625	<1	1.19	114	340	5	0.34	<5	176	1.47	658	<10	95
315580	<0.001	0.005	0.001	<0.5	7.12	<5	10	<0.5	<2	6.96	<0.5	70	3	251	14.9	0.21	3.84	1670	<1	1.22	138	250	4	0.28	6	156	1.7	851	<10	121
315581	0.138	0.416	1.32	2.1	8.57	<5	330	0.6	<2	8.11	<0.5	64	148	3930	9.23	0.46	4.07	1400	<1	1.72	272	1840	11	0.77	<5	680	0.57	304	<10	95
315582	0.001	<0.005	0.002	<0.5	0.33	<5	20	<0.5	<2	0.04	<0.5	<1	3	9	0.07	0.12	0.02	11	<1	0.01	2	40	<2	0.01	<5	6	0.02	2	<10	<2
315583	0.158	0.326	1.345	1.5	8.36	<5	320	0.6	<2	7.88	<0.5	60	137	3840	8.84	0.45	3.92	1330	<1	1.68	260	1800	12	0.73	<5	662	0.54	288	10	92
315584	<0.001	<0.005	0.001	<0.5	6.98	<5	20	<0.5	<2	6.73	<0.5	59	3	232	13.95	0.25	3.31	1535	<1	1.15	120	550	2	0.35	6	202	1.75	826	<10	103
315585	<0.001	<0.005	<0.001	<0.5	6.58	<5	10	<0.5	<2	7.07	<0.5	67	6	258	13.95	0.26	3.78	1640	<1	0.98	134	320	<2	0.84	6	128	1.67	781	10	103
315586	<0.001	<0.005	0.001	<0.5	6.35	<5	20	<0.5	<2	6.98	<0.5	67	92	178	13.2	0.32	4.55	1640	<1	0.99	156	160	<2	0.4	<5	89	1.36	716	10	119
315587	<0.001	<0.005	0.001	<0.5	8.03	<5	20	4.2	<2	7.53	<0.5	41	126	53	8.3	0.32	4.22	1325	<1	1.52	108	220	3	0.12	<5	205	0.53	333	<10	81
315588	<0.001	<0.005	0.001	<0.5	6.79	<5	20	5.5	<2	6.7	<0.5	41	127	85	7.5	0.24	3.71	1250	<1	1.27	98	150	7	0.43	8	169	0.59	284	10	69
315589	<0.001	<0.005	<0.001	<0.5	7.9	<5	30	0.8	<2	7.4	<0.5	49	81	85	8.18	0.31	4.23	1365	<1	1.58	95	220	6	0.14	5	219	0.61	277	<10	75
315590	<0.001	<0.005	0.001	<0.5	7.75	<5	20	1	<2	7.7	<0.5	56	64	172	12.25	0.36	4.22	1600	4	1.38	120	390	<2	0.51	5	176	1.31	603	10	106

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
315591	<0.001	<0.005	<0.001	0.5	6.3	<5	30	0.6	<2	6.7	<0.5	77	46	1360	14.35	0.35	3.84	1665	<1	1.07	158	240	<2	2.75	10	140	1.78	668	10	101
315592	0.001	<0.005	<0.001	<0.5	6.08	<5	20	<0.5	<2	7.12	<0.5	57	59	203	13.3	0.27	4.37	1665	<1	1.04	115	240	<2	0.76	9	125	1.26	660	10	114
315593	<0.001	<0.005	<0.001	<0.5	6.76	<5	20	<0.5	<2	7.34	<0.5	53	41	263	12.85	0.28	4.18	1570	<1	1.14	120	330	<2	0.8	<5	134	1.39	616	10	111
315594	<0.001	<0.005	<0.001	<0.5	0.33	<5	20	<0.5	3	0.04	0.5	1	8	4	0.07	0.12	0.02	12	<1	0.01	5	30	<2	0.01	<5	5	0.02	3	<10	2
315595	0.001	<0.005	<0.001	<0.5	6.83	<5	20	<0.5	<2	6.94	<0.5	62	16	118	12.25	0.27	3.84	1530	<1	1.21	102	280	3	0.2	5	159	1.49	673	<10	109
315596	<0.001	<0.005	0.001	<0.5	7.16	<5	10	<0.5	<2	7.52	<0.5	69	12	505	12.95	0.25	4.03	1530	<1	1.08	117	310	3	1.47	<5	156	1.15	586	<10	102
315597	<0.001	<0.005	0.001	0.6	7.26	5	20	<0.5	<2	7.46	<0.5	50	6	817	14.1	0.27	4.12	1630	<1	1.01	118	150	6	1.8	<5	122	1.34	607	10	102
315598	<0.001	<0.005	0.001	0.5	7.07	<5	10	<0.5	<2	7.71	<0.5	44	9	790	13.65	0.2	3.3	1435	<1	0.8	132	350	6	2.2	8	148	1.4	567	<10	86
315599	<0.001	<0.005	<0.001	<0.5	6.61	<5	10	<0.5	<2	7.27	<0.5	57	7	376	16.05	0.22	3.51	1640	<1	0.86	132	200	5	1.31	<5	123	2.01	925	<10	107
315600	<0.001	<0.005	<0.001	<0.5	7.85	<5	20	<0.5	<2	6.86	<0.5	52	5	95	11.5	0.27	4.05	1545	<1	1.63	73	190	4	0.23	6	193	0.91	465	10	95
315601	<0.001	<0.005	0.001	<0.5	7.22	<5	10	<0.5	<2	7.43	<0.5	63	5	176	13.65	0.25	4.21	1725	<1	1.13	100	360	4	0.68	14	149	1.6	692	<10	111
315602	<0.001	<0.005	<0.001	<0.5	7.83	<5	10	<0.5	<2	8.49	<0.5	55	6	166	12.8	0.22	4.04	1660	<1	0.81	94	320	<2	0.81	5	194	1.08	508	<10	101
315603	<0.001	<0.005	<0.001	0.5	6.95	<5	10	<0.5	<2	7.63	<0.5	121	6	932	15.7	0.23	3.68	1670	<1	0.71	156	240	7	3.26	8	111	1.79	662	<10	92
315604	0.001	<0.005	0.001	<0.5	7.54	<5	10	<0.5	<2	7.33	<0.5	70	11	409	14.8	0.28	4.14	1820	<1	0.92	126	1000	5	0.98	<5	97	1.74	703	<10	108
315605	0.155	0.456	1.425	1.7	8.4	<5	320	0.6	<2	7.96	<0.5	60	142	3840	9.03	0.45	3.99	1375	<1	1.7	273	1760	11	0.75	7	666	0.56	304	<10	94
315606	<0.001	<0.005	0.001	0.7	6.7	<5	20	<0.5	<2	6.6	<0.5	148	39	955	17.05	0.28	4.47	1740	<1	0.94	205	300	8	3.76	5	62	1.55	712	<10	113
315607	0.001	<0.005	<0.001	<0.5	6.3	<5	10	<0.5	<2	6.94	<0.5	72	39	355	14.95	0.22	4.22	1840	<1	1.01	130	1660	5	1.17	6	87	1.45	698	<10	126
315608	<0.001	<0.005	<0.001	<0.5	7.42	<5	20	<0.5	<2	7.55	<0.5	68	13	201	13.8	0.21	3.65	1645	<1	1.12	116	590	<2	0.48	<5	180	1.68	726	10	114
315609	<0.001	<0.005	0.001	<0.5	7.01	<5	20	0.6	<2	6.95	<0.5	80	11	364	15.2	0.31	4.15	1750	<1	1.07	137	270	4	1.92	<5	118	1.63	649	10	110
315610	<0.001	<0.005	0.001	<0.5	6.25	<5	10	0.6	<2	6.92	<0.5	97	23	553	15.15	0.22	3.96	1795	<1	0.91	154	360	4	1.94	<5	114	2.01	637	<10	117
315611	0.001	<0.005	0.001	<0.5	6.45	<5	20	<0.5	<2	6.58	<0.5	72	12	177	13.9	0.22	3.84	1685	<1	1.16	124	270	2	0.42	5	144	1.74	747	10	117
315612	<0.001	<0.005	0.001	<0.5	6.32	<5	10	<0.5	<2	6.65	<0.5	74	14	231	13.75	0.19	3.97	1665	<1	1.09	132	310	<2	0.56	5	129	1.51	690	<10	111
315613	0.001	<0.005	<0.001	0.5	7.1	<5	30	<0.5	<2	6.83	<0.5	78	15	171	13.2	0.3	3.69	1600	<1	1.29	110	720	2	0.56	9	165	1.46	660	10	112
315614	<0.001	<0.005	<0.001	<0.5	6.68	<5	20	5.2	<2	6.7	<0.5	55	12	269	13.15	0.36	3.48	1575	<1	1.17	90	790	4	0.89	<5	159	1.51	741	10	104
315615	<0.001	<0.005	<0.001	<0.5	6.72	<5	30	<0.5	<2	7.1	<0.5	74	3	336	14.6	0.4	3.73	1640	<1	1.07	100	370	4	0.96	6	164	1.77	825	10	117
315616	0.101	<0.005	0.001	<0.5	0.32	<5	10	<0.5	2	0.03	<0.5	<1	6	4	0.06	0.12	0.02	13	<1	0.01	1	50	<2	0.01	<5	6	0.02	2	<10	<2
315617	0.003	<0.005	<0.001	<0.5	7.15	<5	20	<0.5	<2	7.18	<0.5	70	65	273	13.7	0.38	4.1	1640	<1	1.23	174	200	2	0.53	7	156	1.71	809	10	115
315618	<0.001	<0.005	<0.001	<0.5	6.66	<5	20	<0.5	<2	6.96	<0.5	67	69	277	13.2	0.27	4.31	1570	<1	1.23	188	140	<2	0.3	8	142	1.45	756	10	104
315619	<0.001	<0.005	<0.001	<0.5	7.45	<5	20	<0.5	<2	7.58	<0.5	60	55	253	12.65	0.24	3.89	1450	<1	1.28	165	300	7	0.3	5	173	1.47	740	<10	99
315620	0.002	<0.005	0.001	<0.5	7.04	<5	20	<0.5	<2	7.37	<0.5	62	34	278	12.9	0.24	4.16	1480	<1	1.22	175	230	<2	0.29	6	150	1.34	804	<10	103
315621	<0.001	<0.005	0.001	0.5	6.96	11	20	<0.5	<2	7.25	<0.5	59	26	194	12.9	0.23	4.07	1495	<1	1.26	137	200	4	0.22	5	144	1.38	726	<10	107
315622	<0.001	<0.005	0.001	<0.5	6.49	<5	30	0.7	<2	7.07	<0.5	54	29	166	11.85	0.23	3.71	1450	<1	1.16	124	340	7	0.29	<5	272	1.41	680	<10	114
315623	<0.001	<0.005	0.001	<0.5	7.46	<5	50	1.4	<2	8.77	<0.5	38	20	65	10.15	0.25	4.34	1495	<1	1.16	34	790	6	0.06	<5	781	1.34	333	10	105
315624	<0.001	<0.005	0.001	<0.5	6.54	<5	40	<0.5	<2	7.38	<0.5	54	16	148	11.9	0.25	3.83	1470	<1	1.17	110	550	<2	0.15	<5	396	1.44	708	<10	106
315625	0.001	<0.005	<0.001	<0.5	6.42	6	30	<0.5	<2	6.93	<0.5	67	13	308	13.65	0.26	3.66	1660	<1	1.16	121	180	<2	0.54	<5	144	1.94	913	<10	99
315626	<0.001	<0.005	<0.001	<0.5	5.96	<5	30	<0.5	<2	6.68	<0.5	61	13	130	13	0.3	4.03	1680	<1	1.12	79	1040	6	0.43	<5	156	1.31	603	<10	119
315627	0.121	0.317	1.3	1.5	7.84	<5	310	0.6	<2	7.66	<0.5	57	147	3760	8.64	0.41	3.8	1305	<1	1.62	249	1720	9	0.7	<5	620	0.54	292	10	89
315628	0.003	<0.005	0.001	<0.5	6.34	6	20	<0.5	<2	7.01	<0.5	67	13	136	14.6	0.28	3.78	1735	<1	1.01	95	180	6	0.46	<5	120	1.92	808	<10	115
315629	0.002	<0.005	0.001	<0.5	6.03	<5	10	<0.5	<2	6.92	<0.5	69	11	182	15.15	0.25	3.65	1700	<1	0.97	100	350	8	0.43	<5	137	2.12	939	<10	111
315630	0.001	<0.005	<0.001	<0.5	6.15	<5	10	<0.5	<2	6.71	<0.5	71	9	150	13.65	0.28	3.78	1575	<1	1.06	110	120	2	0.36	6	100	1.7	832	<10	134
315631	0.001	<0.005	<0.001	<0.5	6.05	<5	20	<0.5	<2	6.71	<0.5	75	7	139	14.7	0.32	3.61	1625	<1	1.11	86	230	5	0.37	<5	124	1.85	851	<10	132
315632	0.001	<0.005	<0.001	<0.5	6.64	<5	10	<0.5	<2	7.81	<0.5	71	7	222	14	0.37	3.87	1775	<1	0.89	77	600	2	1.2	<5	138	1.78	710	<10	117
315633	0.077	<0.005	<0.001	0.7	7.28	<5	30	<0.5	<2	7.03	<0.5	56	19	245	12.7	0.37	3.39	1575	<1	1.45	69	740	4	1.55	<5	200	1.63	572	<10	94
315634	0.001	<0.005	<0.001	<0.5	6.84	<5	20	<0.5	<2	6.88	<0.5	68	8	137	12.65	0.36	3.34	1555	<1	1.39	61	1730	5	0.69	<5	170	1.6	630	10	102
315635	0.001	<0.005	<0.001	<0.5	6.4	<5	20	<0.5	<2	6.88	<0.5	67	7	138	13.15	0.31	3.6	1665	9	1.22	64	1380	3	0.39	<5	145	1.83	677	10	105
315636	0.001	<0.005	<0.001	<0.5	5.97	<5	20	<0.5	<2	6.63	<0.5	73	5	186	14.05	0.27	4.1	1765	<1	1.13	72	540	3	0.6	7	128	1.52	674	<10	125
315637	0.001	<0.005	<0.001	<0.5	6.04	<5	20	<0.5	<2	6.38	<0.5	67	23	147	14.35	0.25	3.6	1715	<1	1.14	75	790	2	0.46	<5	171	1.98	775	10	151

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
315638	<0.001	<0.005	<0.001	<0.5	0.33	<5	10	<0.5	4	0.04	0.5	1	4	4	0.07	0.11	0.02	12	<1	0.01	<1	50	<2	0.01	<5	5	0.02	2	<10	3
315639	0.002	<0.005	<0.001	<0.5	6.43	<5	20	<0.5	<2	6.36	<0.5	66	23	117	14.4	0.25	3.57	1700	<1	1.28	64	360	3	0.31	7	141	1.86	773	<10	108
315640	0.001	<0.005	<0.001	<0.5	5.83	<5	30	<0.5	<2	6.25	<0.5	76	10	714	15.25	0.27	3.81	1765	<1	1.09	73	220	<2	0.8	6	112	1.92	770	<10	118
315641	0.004	<0.005	<0.001	<0.5	6.68	<5	30	<0.5	<2	6.8	<0.5	67	11	133	13.85	0.31	3.68	1680	<1	1.27	67	430	4	0.4	9	163	1.65	677	<10	106
315642	0.001	<0.005	<0.001	<0.5	5.82	6	20	<0.5	<2	6.88	0.7	71	6	128	12.9	0.25	3.88	1645	<1	1.02	64	1430	2	0.34	5	126	1.51	545	<10	115
315643	<0.001	<0.005	<0.001	<0.5	6.48	<5	30	<0.5	<2	6.54	<0.5	64	5	108	13.65	0.28	3.69	1700	<1	1.18	64	210	<2	0.32	<5	147	1.55	603	<10	121
315644	0.001	<0.005	<0.001	<0.5	6.14	<5	20	<0.5	<2	6.67	<0.5	74	21	324	13.7	0.31	3.61	1670	<1	0.97	76	750	3	1.54	<5	126	1.77	607	10	103
315645	<0.001	<0.005	<0.001	<0.5	7.09	<5	40	<0.5	<2	7.63	<0.5	56	86	62	12.65	0.33	4.44	1945	<1	1.27	94	170	2	0.2	6	155	1.22	473	<10	101
315646	0.001	<0.005	<0.001	<0.5	6.41	<5	60	<0.5	<2	6.6	<0.5	64	68	151	11.9	0.38	4.11	1850	<1	1.11	101	180	2	0.62	<5	182	1.14	509	<10	79
315647	<0.001	<0.005	<0.001	<0.5	7.54	<5	70	<0.5	<2	6.8	<0.5	41	99	24	9.37	0.38	4.39	1640	<1	1.51	80	90	5	0.08	<5	243	0.68	299	<10	78
315648	<0.001	<0.005	<0.001	<0.5	7.57	<5	70	<0.5	<2	6.89	<0.5	46	108	88	9.5	0.42	4.21	1455	10	1.41	76	160	3	0.24	<5	235	0.75	316	<10	63
315649	0.131	0.327	1.29	1.5	7.62	<5	290	0.6	<2	7.09	<0.5	59	138	3670	8.06	0.43	3.57	1225	<1	1.55	253	1650	10	0.66	<5	606	0.53	283	<10	87
315650	<0.001	<0.005	<0.001	<0.5	7.81	<5	70	<0.5	<2	6.86	<0.5	43	86	31	9.04	0.47	3.82	1415	<1	1.37	71	140	<2	0.07	<5	197	0.72	310	<10	77
315651	0.001	<0.005	<0.001	<0.5	6.94	<5	60	<0.5	<2	6.83	<0.5	47	127	55	9.05	0.32	4.04	1450	<1	1.37	86	130	4	0.21	5	177	0.65	304	<10	80
315652	<0.001	<0.005	<0.001	<0.5	6.91	<5	80	<0.5	<2	6.78	<0.5	44	99	35	9.21	0.39	3.87	1485	<1	1.38	74	140	<2	0.17	<5	202	0.67	287	<10	83
315653	0.007	<0.005	<0.001	<0.5	7.21	<5	70	<0.5	<2	6.5	<0.5	49	98	56	9.38	0.36	3.55	1435	<1	1.49	72	340	2	0.17	<5	225	0.83	336	<10	82
315654	<0.001	<0.005	<0.001	<0.5	7.31	<5	60	<0.5	<2	6.83	<0.5	52	118	112	10.35	0.33	3.64	1450	<1	1.45	120	250	4	0.3	<5	211	0.91	386	<10	87
315655	0.001	<0.005	<0.001	<0.5	7.14	<5	60	<0.5	<2	6.87	<0.5	56	28	99	11.95	0.35	3.27	1510	<1	1.4	78	230	7	0.35	<5	284	1.54	534	10	97
315656	<0.001	<0.005	0.001	<0.5	8.06	<5	70	<0.5	<2	6.83	<0.5	46	52	89	9.43	0.39	3.03	1380	<1	1.72	73	370	5	0.39	<5	425	1	352	<10	84
315657	<0.001	<0.005	0.001	<0.5	8.62	<5	80	<0.5	<2	7.45	<0.5	43	120	51	9.36	0.43	4.03	1430	<1	1.82	96	140	10	0.11	<5	230	0.65	280	<10	83
315658	<0.001	<0.005	0.001	<0.5	7.83	<5	50	<0.5	<2	7.37	<0.5	51	144	148	10.3	0.34	4.13	1530	<1	1.48	108	230	9	0.33	<5	213	1.02	343	<10	89
315659	<0.001	<0.005	0.001	<0.5	7.48	<5	60	<0.5	<2	7.08	<0.5	51	144	74	11.1	0.34	3.94	1595	<1	1.51	121	160	13	0.23	<5	223	1.33	421	<10	107
315660	0.001	<0.005	<0.001	<0.5	0.34	<5	20	<0.5	<2	0.04	<0.5	<1	3	3	0.06	0.12	0.02	13	<1	0.01	1	30	4	0.01	<5	5	0.02	2	<10	<2
315661	<0.001	<0.005	0.001	<0.5	7.35	<5	60	<0.5	<2	5.73	<0.5	57	102	164	10.65	0.27	3.23	1335	<1	1.93	132	110	10	0.43	<5	217	1.24	409	<10	102
315662	<0.001	<0.005	0.002	<0.5	8	<5	50	<0.5	<2	7.29	<0.5	57	95	59	11.7	0.34	4.28	1670	1	1.39	122	50	12	0.12	<5	183	1.07	413	<10	108
315663	0.001	<0.005	0.003	<0.5	8.23	<5	60	<0.5	<2	6.82	<0.5	52	85	142	10.55	0.38	3.7	1515	<1	1.89	128	180	5	0.34	<5	249	1.03	348	<10	93
315664	0.001	<0.005	<0.001	<0.5	8.33	<5	50	0.5	<2	7.29	<0.5	39	55	61	9.58	0.38	3.51	1395	<1	1.83	82	370	11	0.27	<5	314	0.93	288	<10	83
315665	<0.001	<0.005	<0.001	<0.5	8.41	<5	80	<0.5	<2	6.83	<0.5	42	112	71	9.55	0.41	3.89	1585	<1	2.06	69	400	13	0.2	<5	322	0.8	273	<10	98
315666	<0.001	<0.005	<0.001	<0.5	6.76	<5	60	<0.5	<2	6.63	<0.5	66	21	127	13.05	0.44	3.37	1840	<1	1.37	54	130	12	0.53	<5	166	2.18	470	<10	120
315667	0.001	<0.005	<0.001	<0.5	7.69	<5	70	0.7	<2	5.35	<0.5	45	25	118	11.15	0.5	3.12	1540	<1	1.96	33	1640	12	0.36	<5	222	1.07	394	<10	108
315668	<0.001	<0.005	0.001	<0.5	9.8	<5	10	0.9	<2	8.72	<0.5	17	51	4	10.3	0.49	3.5	665	<1	0.15	33	830	10	0.01	<5	1535	0.59	223	<10	42
315669	0.001	<0.005	<0.001	<0.5	6.63	<5	20	0.6	<2	6.64	<0.5	42	5	108	15.85	0.2	2.66	2760	2	0.9	3	8020	12	0.4	<5	71	1.71	36	<10	130
315670	0.001	<0.005	<0.001	<0.5	7.43	<5	60	0.6	<2	6.66	<0.5	39	6	75	14.85	0.31	2.73	2420	<1	1.81	12	7860	12	0.45	<5	251	1.56	101	<10	131
315671	0.102	0.292	1.31	1.5	8.48	<5	320	0.6	<2	7.98	<0.5	61	143	3750	8.76	0.45	4.08	1305	<1	1.76	274	1740	19	0.71	<5	642	0.55	304	<10	93
315672	0.001	<0.005	<0.001	<0.5	7.03	<5	50	0.9	<2	6.75	<0.5	37	66	90	15.45	0.26	2.62	2170	<1	1.16	28	3200	13	0.45	<5	114	1.76	233	<10	150
315673	<0.001	<0.005	<0.001	<0.5	8.08	<5	60	0.5	<2	6.2	<0.5	35	64	42	15.5	0.31	1.85	1905	<1	1.76	46	1360	13	0.24	<5	224	2.88	320	<10	132
315674	0.001	<0.005	<0.001	<0.5	7.29	<5	40	0.6	<2	5.4	<0.5	38	80	128	15.85	0.22	1.68	2120	<1	1.66	35	1090	11	0.78	<5	186	2.81	293	<10	145
315675	<0.001	<0.005	<0.001	<0.5	8.27	<5	40	0.5	<2	5.42	<0.5	28	81	77	14.75	0.17	1.11	1795	3	2.14	21	2120	18	0.46	<5	270	2.41	218	<10	141
315676	<0.001	<0.005	<0.001	<0.5	6.58	<5	20	<0.5	<2	6.93	<0.5	43	33	76	14.75	0.22	2.88	2180	<1	1.09	52	4040	19	0.39	<5	108	1.69	195	<10	192
315677	<0.001	<0.005	<0.001	<0.5	7.24	<5	40	0.6	<2	6.97	<0.5	37	170	56	13.15	0.21	3.55	2190	<1	1.64	67	1080	13	0.27	<5	367	1.32	228	<10	137
315678	0.001	0.006	0.008	<0.5	6.92	<5	50	<0.5	<2	7.88	<0.5	42	240	82	10.95	0.22	4.39	1955	1	1.2	108	1210	9	0.24	<5	239	0.78	184	<10	114
315679	0.001	<0.005	<0.001	<0.5	6.66	<5	30	0.7	<2	6	<0.5	39	168	70	15.85	0.22	2.98	2690	<1	1.33	48	1600	14	0.48	<5	111	2.28	218	<10	143
315680	0.002	<0.005	0.001	<0.5	7.36	<5	60	<0.5	<2	6.19	<0.5	47	244	350	15.65	0.26	2.12	2300	<1	1.53	63	1600	13	1.49	<5	240	2.96	337	<10	123
315681	<0.001	<0.005	<0.001	<0.5	8.04	<5	50	0.6	<2	5.53	<0.5	37	146	118	14.35	0.29	2.06	2300	<1	2.27	21	1450	17	0.95	<5	226	1.83	141	<10	114
315682	<0.001	<0.005	<0.001	<0.5	0.34	<5	20	<0.5	3	0.03	<0.5	1	3	3	0.07	0.12	0.02	13	<1	0.01	<1	50	4	0.01	<5	4	0.02	2	<10	<2
315683	<0.001	<0.005	<0.001	<0.5	6.77	<5	20	<0.5	<2	5.71	<0.5	40	48	102	15	0.24	2.88	2460	<1	1.46	19	1110	9	0.6	<5	90	1.56	111	<10	180
315684	<0.001	<0.005	<0.001	<0.5	7.52	<5	30	<0.5	<2	6.29	<0.5	36	32	55	14.55	0.29	2.56	2310	<1	1.76	10	3700	13	0.32	<5	154	1.71	117	<10	135

	PGM-ICP24			ME-ICP61																									
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
315685	0.001	<0.005	<0.001	<0.5	7.97	<5	60	0.7	<2	6.67	<0.5	34	32	26	12.3	0.31	2.97	1995	1	1.83	43	1290	12	0.09	<5	205	1.08	182	<10	153
315686	<0.001	<0.005	<0.001	<0.5	6.63	<5	20	<0.5	<2	5.95	<0.5	33	115	827	15	0.27	2.66	2460	1	1.13	34	1200	11	0.44	<5	83	2.15	233	<10	200
315687	<0.001	<0.005	<0.001	<0.5	7.21	<5	40	<0.5	<2	5.8	<0.5	35	20	96	14.4	0.33	2.75	2200	<1	1.37	13	2120	11	0.34	5	110	1.47	91	<10	115
315688	<0.001	<0.005	<0.001	<0.5	7.4	<5	50	<0.5	<2	6.41	<0.5	39	31	87	14.1	0.38	2.38	1985	1	1.41	19	2260	9	1.11	<5	169	1.44	83	<10	106
315689	<0.001	<0.005	<0.001	<0.5	7.98	<5	40	<0.5	<2	7.05	<0.5	35	15	102	12	0.27	2.13	1805	<1	1.72	13	3990	12	0.56	<5	204	1.17	67	<10	97
315690	<0.001	<0.005	<0.001	<0.5	6.74	<5	20	<0.5	<2	7.29	<0.5	49	15	93	16.1	0.21	2.51	2230	<1	1.25	20	8230	13	0.46	<5	146	1.81	117	<10	139
315691	<0.001	<0.005	<0.001	<0.5	6.14	<5	20	0.5	<2	7.24	<0.5	54	14	110	17.15	0.17	2.72	2390	1	1.01	36	>10000	11	0.44	<5	84	2.05	141	<10	140
315692	<0.001	<0.005	<0.001	<0.5	6.11	<5	20	<0.5	<2	7.07	<0.5	53	31	100	17.05	0.15	2.81	2440	<1	1.08	29	>10000	13	0.42	<5	116	2.05	136	<10	150
315693	0.122	0.361	1.205	1.8	8.37	<5	320	0.6	<2	7.83	<0.5	63	150	3830	8.66	0.45	4.02	1290	<1	1.72	278	1720	19	0.8	<5	630	0.56	308	<10	94
315694	0.001	<0.005	<0.001	<0.5	6.7	<5	30	<0.5	<2	6.92	<0.5	47	28	80	15.55	0.21	2.69	2200	1	1.25	27	6110	13	0.39	<5	148	1.92	124	<10	146
315695	<0.001	<0.005	<0.001	<0.5	7.57	<5	30	<0.5	<2	6.15	<0.5	43	39	78	14.55	0.15	0.87	1880	<1	1.73	12	9770	11	0.43	<5	215	3.71	261	<10	132
315696	<0.001	<0.005	<0.001	<0.5	6.71	<5	20	<0.5	<2	6.18	<0.5	46	81	48	21.3	0.11	1.22	2190	<1	1.18	25	>10000	17	0.29	<5	164	4.9	388	<10	185
315697	<0.001	<0.005	<0.001	<0.5	6.5	<5	10	<0.5	<2	6.36	<0.5	44	18	50	15.9	0.16	3.02	2410	<1	1.16	23	6690	12	0.22	<5	114	1.9	145	<10	171
315698	<0.001	<0.005	<0.001	<0.5	5.85	<5	30	<0.5	<2	8.97	<0.5	81	18	130	18.45	0.16	1.88	2450	1	1.15	39	>10000	12	1.07	<5	150	3.88	334	<10	162
315699	<0.001	<0.005	<0.001	<0.5	4.36	<5	30	<0.5	<2	8.11	<0.5	68	51	137	24.6	0.11	1.05	2160	<1	0.89	55	>10000	17	0.4	<5	126	5.7	539	<10	216
315700	<0.001	<0.005	<0.001	<0.5	5.99	<5	10	<0.5	<2	8.01	<0.5	52	23	126	17.6	0.13	2.14	2040	<1	1.29	39	>10000	14	0.62	<5	144	3.14	276	<10	181
315701	<0.001	<0.005	<0.001	<0.5	9.91	<5	30	0.8	<2	6.45	<0.5	23	21	21	9.94	0.17	1.25	1360	3	2.56	10	2680	9	0.12	<5	312	1.5	131	<10	107
315702	0.001	<0.005	<0.001	<0.5	7.98	<5	20	0.8	<2	6.83	<0.5	40	18	104	14.15	0.15	2.47	2090	7	1.79	29	5140	12	0.61	<5	209	1.56	153	<10	135
315703	0.001	0.006	<0.001	<0.5	6.72	<5	10	<0.5	<2	7.48	<0.5	45	22	85	14.25	0.14	2.38	2090	<1	1.35	27	>10000	14	0.29	<5	150	2.06	159	<10	144
315704	0.001	<0.005	<0.001	<0.5	0.34	<5	10	<0.5	2	0.05	<0.5	<1	3	5	0.09	0.12	0.02	14	<1	0.01	<1	80	2	0.01	<5	5	0.02	2	<10	2
315705	<0.001	<0.005	<0.001	<0.5	10.05	<5	30	0.6	<2	6.68	<0.5	37	43	93	12.05	0.13	0.64	1610	<1	2.47	16	7630	14	0.64	<5	305	2.85	195	<10	110
315706	<0.001	<0.005	<0.001	<0.5	7.03	<5	20	<0.5	<2	7.02	<0.5	50	56	85	19.95	0.12	1.17	2060	1	1.53	34	>10000	17	0.45	<5	155	4.78	375	<10	173
315707	<0.001	<0.005	<0.001	<0.5	9.47	<5	20	<0.5	<2	7.34	<0.5	42	35	67	13.25	0.16	1.21	1140	1	2.26	29	8980	15	0.34	<5	234	2.52	207	<10	155
315708	<0.001	<0.005	<0.001	<0.5	11.35	<5	30	<0.5	<2	7.41	<0.5	32	48	58	12.1	0.11	0.42	1070	1	2.61	25	7980	12	0.26	<5	283	2.97	231	<10	114
315709	<0.001	<0.005	<0.001	<0.5	7.45	<5	20	<0.5	<2	5.95	<0.5	39	53	53	18.7	0.13	1.53	2020	<1	1.44	28	7020	20	0.31	<5	157	3.88	303	<10	176
315710	<0.001	<0.005	<0.001	<0.5	7.1	<5	20	0.5	<2	6.58	<0.5	41	16	86	14.9	0.16	2.02	1960	<1	1.56	28	8680	13	0.54	<5	154	2.29	194	<10	156
315711	<0.001	<0.005	<0.001	<0.5	9.66	<5	30	<0.5	<2	6.45	<0.5	39	29	54	13.9	0.17	1.09	1435	1	2.28	27	5200	14	0.26	<5	224	2.78	246	<10	134
315712	<0.001	<0.005	<0.001	<0.5	9.83	<5	40	<0.5	<2	6.2	<0.5	34	15	50	13.55	0.19	0.99	1275	<1	2.28	25	3650	13	0.22	<5	259	2.95	258	<10	117
315713	<0.001	<0.005	<0.001	<0.5	7.54	<5	20	<0.5	2	6.37	<0.5	64	22	403	14.45	0.2	2.29	1625	<1	1.38	41	1870	30	1.61	<5	128	1.4	151	<10	241
315714	<0.001	<0.005	<0.001	<0.5	8.12	<5	20	<0.5	<2	5.03	<0.5	51	114	78	19.15	0.15	1.18	2100	<1	1.74	36	1110	15	0.41	<5	196	4.68	403	<10	151
315715	0.114	0.374	1.35	1.6	8.45	<5	320	0.6	<2	7.93	<0.5	62	146	3780	8.74	0.45	4.06	1305	1	1.75	278	1730	21	0.8	<5	638	0.56	307	<10	96
315716	<0.001	<0.005	<0.001	<0.5	8.83	<5	30	<0.5	<2	6.24	<0.5	34	40	49	13.25	0.23	1.84	1800	<1	1.9	22	1900	16	0.11	<5	218	1.96	178	<10	145
315717	<0.001	<0.005	<0.001	<0.5	9.27	<5	40	<0.5	<2	5.38	<0.5	76	31	52	11.25	0.64	4.73	1025	<1	1.34	114	60	11	0.01	<5	212	0.84	572	<10	82
315718	<0.001	<0.005	<0.001	<0.5	11.75	<5	40	<0.5	<2	6.64	<0.5	57	31	174	10.1	0.48	2.02	704	<1	1.9	123	90	9	0.28	<5	303	1.14	716	<10	66
315719	<0.001	<0.005	<0.001	<0.5	11	<5	30	<0.5	<2	6.4	<0.5	66	36	250	11	0.46	1.93	721	1	1.74	142	60	7	0.35	<5	269	1.32	790	<10	76
315720	<0.001	<0.005	<0.001	<0.5	11.3	<5	30	<0.5	<2	7.94	<0.5	28	29	126	6.09	0.25	0.41	394	<1	2.12	66	80	8	0.18	<5	322	0.9	539	<10	35
315721	<0.001	<0.005	<0.001	<0.5	10.5	<5	20	<0.5	<2	7.35	<0.5	33	18	78	6.02	0.34	1.2	498	<1	1.95	61	60	9	0.13	<5	274	0.76	440	<10	49
315722	0.001	<0.005	<0.001	<0.5	10.2	<5	20	<0.5	<2	7.46	<0.5	28	11	72	5.07	0.25	1.53	538	<1	2.08	46	50	7	0.09	<5	256	0.5	257	<10	56
315723	0.002	0.006	0.006	<0.5	11.6	<5	30	0.5	<2	5.61	<0.5	56	122	382	13.4	0.48	0.73	625	<1	1.54	150	50	11	0.89	<5	235	2.18	1515	<10	66
315724	<0.001	<0.005	<0.001	<0.5	11.6	<5	40	<0.5	<2	5.92	<0.5	60	146	59	15	0.34	0.74	638	1	1.39	95	70	19	0.15	<5	220	2.27	1575	<10	88
315725	<0.001	<0.005	<0.001	<0.5	12.3	<5	40	0.7	<2	6.65	<0.5	44	108	237	11.15	0.35	0.93	635	31	1.77	84	60	14	0.62	<5	244	1.73	1145	<10	65
315726	<0.001	<0.005	0.001	<0.5	0.34	<5	10	<0.5	<2	0.04	<0.5	<1	5	3	0.07	0.12	0.02	12	<1	0.01	<1	40	4	0.01	<5	4	0.02	4	<10	<2
315727	<0.001	<0.005	<0.001	<0.5	10.3	<5	150	<0.5	<2	5.05	<0.5	92	205	126	17.25	0.9	3.43	965	<1	1.02	189	80	10	0.21	<5	272	1.95	1515	<10	105
315728	<0.001	<0.005	<0.001	<0.5	10.65	<5	370	<0.5	<2	4.14	<0.5	56	447	86	14.2	1.38	2.25	709	<1	1.31	146	260	13	0.41	<5	304	1.85	1420	<10	80
315729	<0.001	0.005	0.01	<0.5	9.32	<5	30	<0.5	<2	6.17	<0.5	71	201	142	10.05	0.18	3.39	815	<1	1.31	154	40	12	0.13	<5	169	0.78	623	<10	76
315730	0.001	<0.005	<0.001	<0.5	11.65	<5	30	0.7	<2	7.21	<0.5	46	68	220	8.03	0.32	1.8	596	<1	1.88	106	90	8	0.4	<5	242	0.87	545	<10	54
315731	0.003	<0.005	0.002	<0.5	3.81	<5	10	<0.5	<2	1.68	<0.5	176	290	331	42.5	0.11	1.89	1390	<1	0.17	440	10	20	0.37	<5	54	5.14	4250	10	232

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
315732	0.002	<0.005	<0.001	<0.5	7.22	<5	40	<0.5	<2	4.01	<0.5	122	577	452	23.4	0.25	2.71	1100	<1	0.6	321	40	14	0.31	<5	160	3	2490	<10	142
315733	0.002	<0.005	0.002	<0.5	8.48	<5	100	<0.5	<2	3.9	<0.5	118	484	435	23.1	0.48	2.58	1085	<1	0.71	346	60	19	0.35	6	217	2.97	2440	<10	125
315734	0.001	<0.005	0.003	<0.5	8.98	<5	60	<0.5	<2	4.66	<0.5	124	783	506	19.25	0.3	3.07	1065	<1	1.09	343	50	20	0.34	<5	196	2.25	1880	<10	131
315735	0.002	0.007	0.008	<0.5	11.8	<5	70	<0.5	<2	6.04	<0.5	71	874	1020	15.2	0.3	1.32	693	15	1.55	324	40	15	0.74	<5	305	1.91	1580	<10	87
315736	<0.001	<0.005	0.001	<0.5	11.8	<5	20	<0.5	<2	8.28	<0.5	28	228	106	6.9	0.08	0.49	378	<1	1.92	90	40	11	0.24	<5	283	0.9	663	<10	46
315737	0.106	0.406	1.445	1.6	8.02	<5	310	0.6	2	7.66	<0.5	80	140	3670	8.44	0.43	3.87	1255	1	1.65	271	1660	21	0.76	<5	603	0.55	298	<10	91
315738	0.003	<0.005	0.007	<0.5	8.69	<5	30	<0.5	<2	4.8	<0.5	111	240	597	23	0.16	1.99	1015	<1	0.96	398	50	12	0.52	<5	197	2.94	2490	<10	169
315739	0.002	<0.005	0.001	<0.5	7.39	<5	10	<0.5	<2	3.99	<0.5	130	129	504	22.1	0.13	3.53	1140	<1	0.89	412	40	12	0.33	<5	98	2.51	2150	<10	141
315740	0.002	<0.005	0.011	<0.5	8.64	<5	20	<0.5	<2	4.45	<0.5	120	43	555	22.7	0.16	2.9	1130	<1	1.06	364	60	10	0.31	<5	190	2.8	2310	<10	131
315741	0.003	<0.005	<0.001	<0.5	10.65	<5	70	<0.5	<2	7.08	<0.5	54	7	387	7.93	0.36	2.68	733	1	1.98	126	100	24	0.28	<5	271	0.62	432	<10	80
315742	0.002	<0.005	<0.001	<0.5	6.77	<5	10	<0.5	<2	3.92	<0.5	147	45	548	19.1	0.05	6.75	1465	<1	0.45	381	50	12	0.32	<5	83	1.51	1170	<10	119
315743	0.01	0.007	0.002	<0.5	7.35	<5	20	<0.5	<2	3.59	<0.5	172	665	425	37	0.08	1.56	1180	<1	0.81	394	30	19	0.51	5	162	4.2	3690	<10	206
315744	0.001	<0.005	0.005	<0.5	10.65	<5	140	<0.5	<2	8.06	<0.5	68	306	780	14.3	0.8	2.24	843	<1	1.85	189	150	15	0.21	<5	313	1.53	1285	<10	102
315745	<0.001	0.005	0.001	<0.5	5.93	<5	210	<0.5	<2	2.99	<0.5	124	1845	134	30.1	0.85	2.84	1260	<1	1.07	289	180	16	0.25	<5	174	3.27	2780	<10	209
315746	0.007	0.006	0.007	<0.5	7.93	<5	210	<0.5	<2	4.8	<0.5	118	1110	699	23.2	0.52	1.51	1040	1	1.02	381	40	16	0.45	<5	248	3.03	2610	<10	153
315747	0.007	<0.005	0.012	<0.5	4.21	<5	40	<0.5	<2	2.09	<0.5	177	1395	772	38.9	0.13	3.29	1520	<1	0.24	520	20	20	0.42	<5	30	4.37	3640	<10	225
315748	<0.001	<0.005	<0.001	<0.5	0.31	<5	10	<0.5	2	0.03	<0.5	<1	6	4	0.13	0.12	0.02	12	<1	0.01	1	40	3	0.01	<5	4	0.02	10	<10	<2
315749	0.004	<0.005	0.006	<0.5	3.42	<5	20	<0.5	<2	1.47	<0.5	175	1075	444	42.5	0.11	2.03	1460	<1	0.15	545	30	23	0.26	6	66	4.88	4120	<10	234
315750	0.008	0.012	0.003	<0.5	2.46	<5	10	<0.5	<2	0.36	<0.5	186	3740	942	>50	0.06	1.19	1480	<1	0.03	657	10	29	0.44	5	21	5.41	5220	<10	319
315751	0.002	<0.005	0.008	<0.5	5.69	<5	50	<0.5	<2	2.13	<0.5	160	1960	1320	39.9	0.42	1.28	1130	<1	0.33	604	30	26	1.32	<5	104	4.74	4100	<10	277
315752	0.001	0.008	0.001	<0.5	4.28	<5	10	<0.5	<2	2.05	<0.5	162	2980	196	43.3	0.06	1.06	1315	<1	0.21	557	<10	25	0.16	<5	97	5.08	4430	<10	240
315753	0.024	0.009	0.014	<0.5	5.48	<5	<10	<0.5	<2	3.21	<0.5	157	785	1995	39.3	0.02	1.16	1185	<1	0.15	757	50	22	0.62	<5	138	4.48	3790	<10	205
315754	0.009	<0.005	0.005	<0.5	2.74	<5	<10	<0.5	<2	0.53	<0.5	205	1025	728	>50	0.01	1.5	1535	<1	0.03	790	20	37	0.41	5	26	5.65	5320	<10	298
315755	0.009	0.009	0.004	<0.5	2.09	<5	<10	<0.5	<2	0.04	<0.5	194	911	751	>50	<0.01	1.47	1515	<1	<0.01	774	10	32	0.3	<5	1	5.75	5490	<10	200
315756	0.011	<0.005	0.003	<0.5	2.49	<5	<10	<0.5	<2	0.36	<0.5	194	230	990	>50	<0.01	1.38	1485	<1	0.03	861	10	33	0.41	6	17	5.55	5480	<10	206

TM06066911 - Finalized
CLIENT : "NORSHI - Northern Shield Resources Inc."
# of SAMPLES : 77
DATE RECEIVED : 2006-07-31 DATE FINALIZED : 2006-09-06
PROJECT : " "
CERTIFICATE COMMENTS : ""
PO NUMBER : " "

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
315824	0.001	<0.005	0.001	0.5	9.89	<5	100	<0.5	<2	7.62	<0.5	37	215	115	5.08	0.75	3.51	669	<1	1.98	168	120	5	0.02	<5	336	0.16	103	<10	52
315825	0.09	0.383	1.195	1.9	8.8	<5	320	0.6	<2	8.95	<0.5	59	157	3900	9.48	0.47	4.55	1350	1	1.95	279	1720	12	0.81	<5	658	0.54	312	<10	94
315826	0.002	0.007	0.005	<0.5	9.28	<5	170	<0.5	<2	6.6	<0.5	79	265	219	9.67	1.71	6.87	1240	1	1.34	336	190	<2	0.11	<5	191	0.18	127	<10	81
315827	<0.001	<0.005	0.001	<0.5	7.84	<5	500	0.7	<2	2.44	<0.5	7	26	26	1.76	0.88	0.73	204	<1	3.61	12	430	8	0.17	<5	672	0.19	38	<10	41
315828	0.003	0.007	0.007	<0.5	11.15	<5	70	<0.5	<2	8.76	<0.5	49	226	293	6.73	0.73	4.23	809	<1	1.74	237	90	5	0.14	<5	229	0.14	120	<10	57
315829	<0.001	0.01	0.005	<0.5	10.2	<5	180	0.8	<2	7.51	<0.5	36	571	26	7.53	1.35	4.14	916	<1	1.92	221	40	6	0.03	<5	247	0.27	212	<10	86
315830	<0.001	<0.005	0.002	<0.5	9.99	<5	30	0.5	<2	7.44	<0.5	51	167	17	3.37	0.24	1.08	260	3630	2.49	94	40	<2	1.52	<5	245	0.13	61	<10	20
315831	<0.001	<0.005	0.002	<0.5	10.5	<5	20	<0.5	<2	8.2	<0.5	22	155	4	3.68	0.2	2.02	477	5	2.31	86	240	2	0.01	<5	228	0.14	82	<10	34
315832	<0.001	<0.005	<0.001	<0.5	5.48	<5	50	<0.5	<2	3.41	<0.5	9	71	10	1.71	0.46	0.87	206	7	0.81	28	60	4	0.01	<5	100	0.07	37	<10	18
315833	<0.001	<0.005	<0.001	<0.5	10.75	<5	130	<0.5	<2	7.78	<0.5	40	336	2	5.38	1.91	2.74	530	<1	0.77	133	100	2	<0.01	<5	296	0.25	150	<10	54
315834	<0.001	<0.005	<0.001	<0.5	10.9	<5	20	<0.5	<2	9.84	<0.5	20	82	26	4.15	0.18	2.92	660	2	2.03	56	60	2	0.03	<5	220	0.11	70	<10	34
315835	<0.001	<0.005	<0.001	<0.5	9.85	<5	40	<0.5	<2	10.2	<0.5	6	29	7	1.52	0.2	0.55	271	<1	2.43	14	60	3	<0.01	<5	291	0.07	36	<10	13
315836	<0.001	<0.005	0.001	<0.5	0.35	<5	10	<0.5	<2	0.04	<0.5	<1	3	4	0.05	0.13	0.02	10	<1	0.01	<1	40	2	0.01	<5	4	0.02	1	<10	<2
315837	<0.001	<0.005	0.001	<0.5	10.95	6	30	<0.5	<2	10.05	<0.5	15	82	21	3.05	0.18	1.77	445	<1	2.28	58	40	4	0.05	<5	268	0.09	63	<10	26
315838	<0.001	<0.005	0.001	<0.5	11.1	<5	50	<0.5	<2	9.75	<0.5	23	263	85	4.62	0.46	2.46	570	<1	1.99	97	60	3	0.19	<5	258	0.16	117	<10	37
315839	0.001	<0.005	<0.001	<0.5	10.9	<5	20	<0.5	<2	10.9	<0.5	57	367	169	8.58	0.21	6.39	1220	4	1.31	230	60	<2	0.17	<5	181	0.2	191	<10	63
315840	<0.001	<0.005	<0.001	<0.5	8.7	5	390	<0.5	<2	5.12	<0.5	5	19	2	2.02	0.66	1.03	135	<1	0.69	12	640	3	0.01	<5	66	0.24	36	<10	26
315841	<0.001	0.005	0.001	<0.5	9.45	<5	100	<0.5	<2	7.88	<0.5	24	154	24	3.65	0.63	2.42	518	1	2.08	66	50	2	0.02	<5	314	0.14	102	<10	35
315842	<0.001	<0.005	0.001	<0.5	10.6	<5	80	<0.5	<2	9.2	<0.5	22	157	25	3.96	0.35	2.36	560	<1	2.18	80	60	5	0.03	<5	331	0.15	109	<10	35
315843	<0.001	0.041	0.04	<0.5	10.25	<5	150	<0.5	<2	9.01	<0.5	40	128	211	5.11	0.75	2.93	621	<1	1.88	223	60	7	0.27	<5	329	0.09	62	<10	49
315844	<0.001	0.007	0.005	<0.5	10.35	<5	30	<0.5	<2	7.94	<0.5	61	104	58	7.42	0.28	5.04	882	2	1.74	259	60	3	0.14	<5	202	0.08	48	<10	57
315845	<0.001	0.013	0.009	<0.5	11.05	<5	70	<0.5	<2	8.72	<0.5	60	138	138	7.01	0.61	4.64	839	18	1.84	240	70	4	0.42	<5	244	0.11	85	<10	55
315846	<0.001	<0.005	0.002	<0.5	10.1	<5	110	<0.5	<2	7.99	<0.5	52	119	98	6.44	0.72	4.34	795	<1	1.65	212	70	2	0.21	<5	242	0.1	76	<10	56
315847	0.11	0.408	1.295	1.8	8.76	<5	330	0.7	<2	9.07	<0.5	62	153	3930	9.6	0.47	4.58	1360	<1	1.92	281	1710	12	0.82	<5	650	0.55	317	<10	97
315848	<0.001	0.005	0.003	0.5	11.1	<5	90	0.5	<2	8.6	<0.5	57	113	170	6.73	0.63	4.32	806	<1	1.78	211	60	2	0.46	<5	294	0.11	74	<10	56
315849	<0.001	<0.005	<0.001	0.8	5.67	<5	230	0.5	2	1.69	<0.5	18	97	111	2.68	5.65	0.73	165	1	0.04	21	640	14	1.64	<5	48	0.22	41	<10	19
315850	<0.001	<0.005	0.001	<0.5	11.1	<5	160	1	<2	3.85	<0.5	14	38	101	2.59	3.09	2.34	314	<1	0.03	48	20	4	0.47	<5	41	0.19	113	<10	81
315851	<0.001	<0.005	0.001	<0.5	9.81	<5	120	1	<2	5.27	<0.5	10	28	12	2.27	3.15	1.96	286	<1	0.04	35	70	5	0.23	<5	60	0.14	86	<10	27
315852	<0.001	<0.005	<0.001	<0.5	10.25	<5	350	0.5	<2	5.02	<0.5	11	26	8	2.73	2.81	1.93	490	<1	2.19	35	60	5	0.04	<5	247	0.15	97	<10	69
315853	<0.001	<0.005	0.001	<0.5	10.55	<5	320	0.5	<2	5.21	<0.5	14	40	11	3.24	3.17	2.75	527	<1	1.54	43	50	5	0.01	<5	212	0.16	107	<10	65
315854	<0.001	<0.005	<0.001	<0.5	10.3	<5	240	<0.5	<2	6.18	<0.5	12	22	32	2.92	2.18	1.85	560	<1	2.45	36	70	<2	0.02	<5	281	0.13	89	<10	78
315855	<0.001	<0.005	<0.001	<0.5	8.23	<5	150	<0.5	<2	7.21	<0.5	13	58	52	3.06	1.41	1.18	508	9	2.52	41	70	2	0.18	<5	285	0.19	134	<10	48
315856	<0.001	<0.005	<0.001	<0.5	10.25	5	140	1.1	<2	7.71	<0.5	13	26	40	2.87	1.5	1.44	453	<1	2.58	36	80	8	0.16	<5	305	0.14	108	<10	37
315857	<0.001	<0.005	<0.001	<0.5	8.56	<5	160	1.6	2	6.55	<0.5	16	36	14	5.26	1.41	3.58	899	<1	1.92	91	90	5	0.04	<5	286	0.23	187	<10	151
315858	<0.001	<0.005	0.001	<0.5	0.35	<5	20	<0.5	<2	0.04	<0.5	<1	3	4	0.05	0.13	0.02	11	<1	0.01	<1	50	2	0.01	<5	5	0.02	2	<10	2
315859	<0.001	<0.005	0.001	<0.5	10.1	<5	160	<0.5	<2	7.17	<0.5	18	41	42	3.64	1.43	1.56	644	2	2.34	51	70	4	0.16	<5	294	0.22	159	<10	49
315860	<0.001	<0.005	0.001	<0.5	10.2	<5	130	<0.5	<2	6.86	<0.5	15	35	29	2.82	1.2	1.13	472	1	2.76	40	60	14	0.08	<5	390	0.15	97	<10	38
315861	<0.001	<0.005	<0.001	<0.5	10.6	<5	150	<0.5	<2	7.02	<0.5	15	20	20	2.67	1.28	1.14	521	2	2.75	35	60	12	0.06	<5	361	0.13	81	<10	37
315862	<0.001	<0.005	0.01	<0.5	10.6	<5	120	1	6	6.39	<0.5	20	41	78	3.48	1.21	1.83	603	<1	2.7	56	60	15	0.36	<5	338	0.18	120	<10	50

	PGM-ICP24			ME-ICP61																											
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
315863	<0.001	<0.005	0.001	<0.5	10.95	<5	70	<0.5	<2	7.34	<0.5	23	28	101	3.98	0.86	1.31	536	12	2.88	56	80	11	0.41	<5	383	0.3	181	<10	37
315864	<0.001	<0.005	0.001	<0.5	11.1	6	70	<0.5	<2	7.09	<0.5	22	25	68	3.74	1.03	1.35	451	7	2.41	58	70	13	0.36	7	300	0.21	189	<10	39
315865	<0.001	<0.005	<0.001	<0.5	10.85	5	100	<0.5	<2	6.27	<0.5	24	22	64	4.22	1.2	1.5	595	4	2.86	68	80	14	1.06	<5	314	0.33	222	<10	99
315866	<0.001	<0.005	<0.001	<0.5	10.65	<5	100	<0.5	<2	4.93	<0.5	24	25	63	3.37	1.71	2.07	542	27	2.58	63	100	16	0.62	<5	249	0.2	144	<10	85
315867	<0.001	<0.005	<0.001	<0.5	11.05	<5	100	<0.5	<2	6.12	<0.5	22	14	56	3.54	1.42	1.97	539	3	2.47	58	80	17	0.23	<5	277	0.22	148	<10	74
315868	<0.001	<0.005	<0.001	<0.5	9.25	<5	90	0.7	<2	4.22	<0.5	13	53	68	3.17	1.16	1.45	550	75	1.71	39	60	11	0.31	<5	225	0.18	154	<10	57
315869	0.097	0.343	1.305	1.6	8.07	<5	320	0.6	<2	8.04	<0.5	62	141	4150	9	0.5	4.04	1315	<1	1.82	267	1730	3	0.76	<5	666	0.6	311	<10	89
315870	<0.001	<0.005	0.001	<0.5	6.35	<5	70	0.5	<2	3.56	<0.5	12	15	72	3.07	0.88	0.94	389	39	1.29	44	70	<2	0.97	<5	162	0.13	114	10	38
315871	<0.001	<0.005	0.001	<0.5	9.49	<5	190	0.8	<2	4.9	<0.5	15	38	211	3.05	1.82	1.37	518	53	2.33	54	150	<2	0.56	<5	253	0.24	151	<10	52
315872	<0.001	<0.005	0.001	<0.5	10.15	10	40	0.7	<2	5.57	<0.5	15	34	14	3.76	0.49	1.65	550	13	4.35	60	70	<2	0.28	<5	254	0.2	155	<10	73
315873	<0.001	<0.005	0.001	<0.5	9.74	<5	70	0.7	<2	5.81	<0.5	19	47	74	3.65	0.88	1.8	574	36	3.47	54	80	<2	0.33	<5	272	0.23	132	<10	74
315874	<0.001	<0.005	0.001	<0.5	9.83	13	200	<0.5	<2	6.58	<0.5	12	20	37	2.58	1.48	1.11	478	<1	2.56	37	50	<2	0.16	<5	314	0.14	94	<10	43
315875	<0.001	<0.005	0.001	<0.5	10.15	<5	170	<0.5	<2	6.86	<0.5	16	40	134	3.44	1.38	1.56	550	<1	2.6	53	60	<2	0.25	<5	302	0.21	152	<10	56
315876	<0.001	<0.005	0.001	<0.5	9.13	<5	120	1	<2	6.62	<0.5	16	42	94	3.29	1.17	1.18	465	3	2.51	49	40	<2	0.29	<5	292	0.24	152	<10	41
315877	<0.001	<0.005	<0.001	<0.5	9.32	<5	110	1.4	<2	7.54	<0.5	16	56	96	3.35	1.13	1.13	467	<1	2.34	51	40	<2	0.26	<5	282	0.23	146	<10	35
315878	<0.001	<0.005	0.001	<0.5	8.84	<5	120	<0.5	<2	6.85	<0.5	14	24	38	2.95	1.11	1.25	448	<1	2.45	42	60	<2	0.08	<5	267	0.14	94	<10	35
315879	<0.001	<0.005	0.001	<0.5	10.6	<5	210	2.7	<2	6.12	<0.5	12	20	20	2.72	1.44	1.5	530	8	2.83	40	50	<2	0.1	<5	320	0.14	91	20	64
315880	0.001	<0.005	<0.001	<0.5	0.36	<5	20	<0.5	<2	0.05	<0.5	1	3	3	0.06	0.13	0.02	12	<1	0.02	<1	40	<2	0.01	<5	5	0.02	2	<10	2
315881	<0.001	<0.005	<0.001	<0.5	9.94	<5	230	2.5	<2	6.67	<0.5	10	27	60	2.03	1.63	0.88	374	8	2.72	33	70	<2	0.15	<5	299	0.15	80	<10	43
315882	0.005	<0.005	0.001	<0.5	6.71	<5	60	<0.5	<2	3.98	<0.5	16	27	353	3.49	0.69	0.97	285	25	1.48	31	50	<2	1.46	<5	193	0.13	80	<10	24
315883	<0.001	<0.005	<0.001	<0.5	10.2	<5	90	<0.5	<2	6.79	<0.5	14	42	61	3.27	0.92	1.66	551	3	2.67	40	60	<2	0.12	<5	276	0.16	101	<10	52
315884	<0.001	<0.005	0.001	<0.5	10.45	<5	90	0.6	<2	6.75	<0.5	14	34	70	3.3	1.02	1.54	495	1	2.72	32	70	<2	0.3	<5	302	0.15	99	10	39
315885	<0.001	<0.005	0.001	<0.5	9.92	<5	70	<0.5	<2	7.35	<0.5	15	40	29	3.16	0.59	1.5	498	<1	2.77	31	80	<2	0.1	<5	268	0.14	86	<10	33
315886	<0.001	<0.005	0.002	<0.5	9.67	<5	80	<0.5	2	6.74	<0.5	24	57	134	4.78	1	2.33	747	<1	2.34	51	70	<2	0.51	<5	272	0.23	150	<10	65
315887	<0.001	<0.005	0.001	<0.5	9.51	9	40	<0.5	<2	7.03	<0.5	16	60	76	3.3	0.71	1.38	487	<1	2.55	38	70	<2	0.28	5	258	0.19	116	<10	41
315888	<0.001	<0.005	0.003	<0.5	9.89	<5	20	0.6	<2	7.61	<0.5	14	85	97	3.7	0.39	1.33	492	<1	2.54	40	90	<2	0.31	<5	256	0.31	163	10	33
315889	<0.001	<0.005	0.004	<0.5	9.03	<5	10	1.3	2	7.27	<0.5	47	98	76	5.47	0.28	1.59	533	<1	2.25	56	70	<2	2.75	9	243	0.27	174	<10	37
315890	<0.001	0.005	0.006	<0.5	9.74	<5	20	1.4	<2	7.25	<0.5	28	51	99	4.15	0.44	1.42	482	<1	2.57	50	90	<2	1.34	<5	242	0.24	155	<10	37
315891	0.079	0.349	1.095	1.5	8	<5	330	0.7	<2	8.42	<0.5	63	147	3870	9.29	0.47	4.06	1360	<1	1.75	278	1780	2	0.8	5	645	0.59	313	<10	95
315892	<0.001	<0.005	0.003	<0.5	9.29	<5	30	2.1	<2	7.16	<0.5	31	52	75	5.32	0.67	2.78	854	1	2.21	64	100	<2	0.24	<5	229	0.22	162	<10	55
315893	<0.001	<0.005	0.002	<0.5	8.91	<5	50	1.3	<2	6.61	<0.5	24	53	79	4.59	0.84	2.19	722	<1	2.3	48	70	<2	0.31	<5	251	0.24	163	<10	55
315894	<0.001	<0.005	0.002	<0.5	8.96	11	20	<0.5	<2	7.42	<0.5	30	60	123	5.91	0.52	3.17	941	<1	1.95	64	490	<2	0.27	<5	212	0.35	198	<10	48
315895	<0.001	<0.005	<0.001	<0.5	9.18	<5	50	3.3	<2	5.77	<0.5	16	45	57	3.46	1.3	1.76	466	21	2.53	33	60	<2	0.33	<5	241	0.18	116	<10	38
315896	<0.001	<0.005	0.001	<0.5	8.83	<5	40	0.7	<2	6.46	<0.5	24	144	133	5.24	0.83	2.17	680	<1	2.02	58	130	<2	0.37	8	211	0.41	266	<10	49
315897	<0.001	<0.005	<0.001	<0.5	9.46	<5	30	0.6	<2	6.34	<0.5	22	90	164	4.17	0.64	1.48	508	<1	2.41	38	80	<2	1	<5	264	0.31	174	<10	39
315898	<0.001	<0.005	0.001	<0.5	9.1	<5	30	1.3	<2	6.86	0.7	23	107	180	4.68	0.71	2.05	676	<1	2.17	45	140	<2	0.72	7	240	0.32	184	<10	43
315899	<0.001	<0.005	0.001	<0.5	9.57	<5	30	<0.5	<2	7.44	<0.5	17	62	79	3.23	0.43	1.25	461	<1	2.56	31	110	<2	0.2	<5	251	0.22	131	<10	28
315900	<0.001	<0.005	<0.001	<0.5	8.62	<5	100	0.6	<2	5.77	<0.5	13	58	109	2.52	0.61	0.87	326	<1	2.75	20	460	<2	0.28	<5	267	0.17	106	<10	25

TM06066912 - Finalized
CLIENT : "NORSHI - Northern Shield Resources Inc."
# of SAMPLES : 98
DATE RECEIVED : 2006-07-31 DATE FINALIZED : 2006-09-06
PROJECT : " "
CERTIFICATE COMMENTS : ""
PO NUMBER : " "

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
315901	<0.001	<0.005	0.001	<0.5	9.56	<5	70	<0.5	<2	6.66	<0.5	16	56	103	3.47	0.77	1.28	486	16	2.61	27	90	<2	0.26	<5	290	0.22	146	<10	37
315902	<0.001	<0.005	<0.001	<0.5	0.34	<5	10	<0.5	<2	0.04	<0.5	<1	3	4	0.05	0.12	0.02	8	1	0.02	<1	40	<2	0.01	<5	5	0.02	2	<10	<2
315903	<0.001	<0.005	<0.001	<0.5	9.09	<5	60	0.6	<2	5.81	<0.5	15	31	143	3.29	1.15	1.16	432	<1	2.52	29	140	<2	0.44	<5	261	0.33	190	<10	31
315904	<0.001	<0.005	<0.001	<0.5	8.98	7	20	1.7	2	6.2	<0.5	14	15	71	3.17	0.61	1.17	434	<1	2.9	29	80	<2	0.23	<5	259	0.29	154	<10	32
315905	<0.001	<0.005	<0.001	<0.5	9.46	<5	30	2.2	<2	6.89	<0.5	15	35	115	3.91	0.57	1.37	538	<1	2.57	38	140	<2	0.24	<5	251	0.36	212	<10	36
315906	<0.001	<0.005	0.001	<0.5	8.83	<5	50	2.2	<2	6.66	<0.5	28	19	92	3.85	0.56	1.16	510	<1	2.42	33	110	<2	0.93	<5	273	0.2	163	<10	55
315907	<0.001	<0.005	<0.001	<0.5	9.25	<5	30	<0.5	<2	7.09	<0.5	18	28	88	3.51	0.36	1.51	541	<1	2.56	34	50	<2	0.18	<5	245	0.25	163	<10	37
315908	<0.001	<0.005	0.001	<0.5	9.41	<5	20	1.2	<2	6.92	<0.5	17	23	127	3.13	0.37	0.98	400	<1	2.59	30	30	<2	0.37	<5	265	0.26	148	<10	28
315909	<0.001	<0.005	<0.001	<0.5	9.4	6	30	<0.5	<2	6.88	<0.5	19	31	172	3.95	0.48	1.34	508	<1	2.55	37	110	<2	0.32	<5	246	0.31	191	<10	39
315910	<0.001	<0.005	<0.001	<0.5	8.76	10	50	<0.5	<2	6.4	<0.5	15	16	35	3.16	0.52	1.43	512	<1	2.6	25	70	<2	0.06	<5	231	0.15	106	<10	35
315911	<0.001	<0.005	0.001	<0.5	10.3	<5	30	0.7	<2	7.25	<0.5	25	70	196	5.07	0.34	1.56	652	<1	2.66	41	60	<2	0.59	<5	256	0.56	262	<10	41
315912	0.002	<0.005	0.001	<0.5	9.13	<5	20	<0.5	<2	6.64	<0.5	18	34	101	3.71	0.21	1.37	535	<1	2.58	28	70	<2	0.25	<5	243	0.32	159	<10	33
315913	0.114	0.37	1.23	1.4	7.57	<5	290	0.6	<2	7.28	<0.5	58	132	3770	8.2	0.46	3.78	1200	<1	1.71	241	1610	4	0.71	<5	628	0.56	285	<10	84
315914	<0.001	<0.005	0.001	<0.5	8.26	6	50	1.1	<2	5.86	<0.5	22	58	96	4.26	0.44	1.56	625	<1	2.46	33	100	<2	0.24	<5	229	0.33	204	<10	42
315915	<0.001	<0.005	0.001	<0.5	8.94	<5	40	0.6	<2	6	<0.5	23	35	118	4.2	0.42	1.62	562	61	2.18	35	60	<2	0.36	<5	242	0.26	215	<10	45
315916	<0.001	<0.005	0.009	<0.5	8.2	<5	20	<0.5	<2	6.31	<0.5	23	27	46	4.35	0.29	2.04	727	<1	2.49	37	70	<2	0.07	<5	244	0.23	141	<10	37
315917	<0.001	<0.005	<0.001	<0.5	8.81	<5	30	<0.5	<2	6.12	<0.5	27	27	46	4.86	0.51	2.47	825	<1	2.3	37	50	<2	0.15	7	232	0.23	155	<10	46
315918	0.001	<0.005	0.001	<0.5	8.87	<5	80	<0.5	<2	6.27	<0.5	21	30	48	4.43	0.67	2.08	773	<1	2.52	35	70	<2	0.13	<5	307	0.23	159	<10	50
315919	<0.001	<0.005	<0.001	<0.5	7.28	<5	40	1.2	<2	3.74	<0.5	20	5	148	4.33	0.27	2.19	622	<1	2.33	28	2740	<2	0.12	<5	747	0.37	106	<10	83
315920	<0.001	<0.005	<0.001	<0.5	9.25	<5	70	<0.5	<2	6.32	<0.5	25	41	70	4.95	0.61	2.26	732	<1	2.49	36	100	<2	0.14	<5	394	0.31	192	<10	48
315921	<0.001	<0.005	0.001	<0.5	9.4	<5	30	<0.5	<2	6.14	<0.5	29	44	130	4.8	0.53	2.12	676	<1	2.4	42	110	<2	0.47	<5	252	0.3	184	<10	46
315922	<0.001	<0.005	0.001	<0.5	9.34	<5	30	<0.5	<2	6.49	<0.5	23	39	57	4.66	0.55	1.95	727	<1	2.26	34	90	<2	0.29	<5	255	0.28	194	<10	52
315923	<0.001	0.007	<0.001	<0.5	9.29	<5	20	<0.5	<2	6.86	<0.5	19	35	100	3.36	0.29	1.08	462	<1	2.54	32	110	<2	0.25	<5	262	0.3	156	<10	28
315924	<0.001	<0.005	0.001	<0.5	0.32	<5	10	<0.5	2	0.04	0.5	1	3	3	0.05	0.12	0.02	8	<1	0.01	2	30	<2	0.01	<5	4	0.01	2	<10	<2
315925	<0.001	<0.005	<0.001	<0.5	9.36	<5	10	<0.5	<2	6.61	<0.5	21	34	62	3.97	0.17	1.77	576	<1	2.42	33	50	<2	0.07	<5	234	0.28	168	<10	33
315926	<0.001	<0.005	0.002	<0.5	9.69	<5	10	<0.5	<2	6.45	<0.5	17	41	121	3.65	0.15	1.04	435	<1	2.76	34	100	<2	0.09	<5	278	0.4	206	<10	26
315927	<0.001	0.005	0.001	<0.5	8.26	<5	30	<0.5	<2	4.89	<0.5	12	27	28	2.83	0.28	1.08	382	<1	2.89	21	140	<2	0.08	<5	280	0.16	119	<10	25
315928	<0.001	0.005	0.003	<0.5	8.16	14	20	<0.5	<2	6.56	<0.5	43	139	83	5.09	0.22	4.5	817	<1	1.35	159	20	<2	0.17	<5	174	0.1	80	<10	37
315929	0.001	<0.005	0.001	<0.5	8.74	<5	10	<0.5	<2	7.31	<0.5	30	140	139	4.61	0.16	3.81	762	<1	1.21	92	40	<2	0.1	<5	185	0.19	130	<10	86
315930	<0.001	0.008	0.001	<0.5	9.81	<5	20	<0.5	<2	8.39	<0.5	28	98	49	4.03	0.27	3.36	631	<1	1.2	97	30	<2	0.04	<5	231	0.14	96	<10	28
315931	<0.001	0.006	0.001	<0.5	8.92	<5	10	<0.5	<2	7.66	<0.5	29	90	34	3.83	0.2	3.08	615	<1	1.47	98	20	<2	0.04	<5	218	0.13	93	<10	31
315932	0.001	<0.005	0.003	<0.5	8.89	<5	20	<0.5	<2	8.01	<0.5	36	167	78	4.82	0.19	4.43	856	<1	1.66	114	40	3	0.05	<5	183	0.13	119	<10	39
315933	<0.001	<0.005	0.001	<0.5	9.81	<5	40	<0.5	<2	7.56	<0.5	23	87	22	3.25	0.25	2.47	516	<1	1.84	63	40	<2	0.03	<5	271	0.13	95	<10	25
315934	<0.001	<0.005	0.001	<0.5	9.7	<5	80	<0.5	<2	8.45	<0.5	25	80	122	3.52	0.34	2.75	639	<1	1.64	65	130	<2	0.09	<5	236	0.15	107	<10	26
315935	0.101	0.425	1.25	1.6	8.09	<5	340	0.7	<2	8.19	<0.5	65	157	3660	8.82	0.44	4.28	1355	<1	1.75	277	1720	14	0.82	8	652	0.55	311	<10	90
315936	0.002	0.016	0.02	<0.5	8.09	<5	10	<0.5	<2	7.25	<0.5	70	164	171	7.39	0.13	6.51	1110	<1	1.14	270	50	<2	0.09	<5	141	0.11	102	<10	52
315937	0.001	<0.005	0.007	<0.5	9.56	<5	20	<0.5	<2	8.95	<0.5	28	173	88	3.69	0.1	3.29	689	<1	1.43	94	40	<2	0.03	<5	236	0.11	106	<10	27
315938	<0.001	<0.005	0.001	<0.5	8.39	<5	10	<0.5	<2	6.99	<0.5	61	127	135	7.47	0.15	6.24	1170	<1	0.89	199	90	<2	0.23	<5	125	0.15	129	<10	57
315939	<0.001	<0.005	0.004	<0.5	8.21	<5	30	<0.5	<2	8.04	<0.5	52	250	81	6.81	0.23	6.38	1260	<1	1.08	167	20	2	0.11	<5	104	0.16	157	<10	57

	PGM-ICP24			ME-ICP61																											
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn	
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	
315940	<0.001	0.014	0.016	<0.5	9.28	<5	20	<0.5	<2	8.85	<0.5	40	278	173	5.39	0.16	5.16	983	<1	1.25	170	30	<2	0.13	5	190	0.15	136	<10	35	
315941	<0.001	0.011	0.023	<0.5	7.36	<5	10	<0.5	<2	8.45	<0.5	50	398	284	6.1	0.14	6.27	1135	<1	0.89	208	20	2	0.31	6	136	0.19	170	<10	63	
315942	0.001	<0.005	0.01	0.5	9.21	<5	40	<0.5	<2	8.44	<0.5	55	250	785	6.53	0.19	4.95	982	<1	1.57	147	110	4	1.7	8	251	0.36	157	<10	47	
315943	<0.001	0.04	0.043	<0.5	9.35	6	40	0.5	<2	7.79	<0.5	29	219	57	4.72	0.22	3.86	884	1	2.24	121	60	8	0.3	<5	476	0.13	99	10	39	
315944	<0.001	0.006	0.006	<0.5	9.78	<5	20	<0.5	5	8.67	<0.5	45	44	137	7.03	0.15	3.17	1005	<1	1.88	41	2000	9	1.86	<5	879	0.44	191	<10	35	
315945	<0.001	<0.005	0.003	<0.5	10.5	5	50	<0.5	3	9.81	<0.5	35	77	160	5.17	0.18	3.35	920	<1	1.47	75	840	3	0.44	<5	536	0.28	126	<10	34	
315946	<0.001	0.006	0.002	<0.5	0.34	<5	20	<0.5	<2	0.03	<0.5	1	2	3	0.05	0.12	0.02	9	<1	0.01	<1	40	<2	0.01	6	4	0.02	<1	<10	<2	
315947	<0.001	<0.005	0.003	<0.5	10.3	<5	20	<0.5	<2	8.26	<0.5	36	183	16	5.62	0.16	5.22	975	<1	1.57	121	130	4	0.04	6	169	0.15	122	<10	41	
315948	<0.001	<0.005	0.006	<0.5	10.7	<5	20	<0.5	<2	9.58	<0.5	19	76	65	3.1	0.09	2.06	539	<1	1.62	64	80	5	0.05	<5	300	0.11	81	10	22	
315949	<0.001	<0.005	0.002	<0.5	10.2	<5	20	<0.5	<2	8.98	<0.5	31	153	23	5.26	0.17	4.61	902	<1	1.33	102	70	3	0.04	<5	186	0.16	129	<10	40	
315950	0.001	0.013	0.012	<0.5	10.15	<5	20	<0.5	<2	8.25	<0.5	33	118	139	4.54	0.18	3.72	749	<1	1.82	154	70	7	0.16	6	224	0.11	88	<10	34	
315951	<0.001	0.043	0.041	<0.5	7.83	6	10	<0.5	<2	6.94	<0.5	67	187	265	8.16	0.14	7.26	1325	<1	0.99	304	40	5	0.5	6	64	0.14	113	<10	57	
315952	0.001	0.016	0.014	<0.5	10.2	<5	20	<0.5	<2	7.02	<0.5	42	146	122	5.67	0.15	5.07	941	<1	1.92	176	30	4	0.09	8	173	0.1	77	<10	46	
315953	0.001	0.027	0.027	<0.5	10.35	<5	30	<0.5	<2	7.26	<0.5	35	93	118	4.43	0.16	3.57	714	<1	2.17	143	30	6	0.11	<5	215	0.08	55	<10	33	
315954	<0.001	<0.005	0.001	<0.5	10.3	7	20	<0.5	2	9.11	<0.5	30	139	27	4.77	0.09	3.67	869	<1	1.68	103	50	6	0.06	<5	238	0.17	138	10	34	
315955	<0.001	<0.005	0.001	<0.5	9.69	<5	10	<0.5	<2	8.79	<0.5	33	129	10	4.94	0.08	4.1	889	<1	1.24	102	50	9	0.02	<5	183	0.16	125	<10	36	
315956	<0.001	<0.005	0.001	<0.5	10.65	<5	20	<0.5	<2	9.16	<0.5	32	130	26	4.8	0.13	3.81	811	<1	1.4	100	40	6	0.04	5	229	0.15	123	<10	38	
315957	0.092	0.345	1.155	1.5	8.31	<5	330	0.6	<2	8.01	<0.5	66	150	3600	9.45	0.44	4.25	1375	<1	1.78	275	1730	18	0.76	<5	657	0.57	319	<10	90	
315958	<0.001	<0.005	0.002	<0.5	9.47	<5	30	<0.5	<2	6.43	<0.5	36	131	35	4.53	0.19	3.68	746	<1	2.36	111	60	4	0.11	8	244	0.16	116	<10	32	
315959	<0.001	<0.005	0.002	<0.5	8.47	<5	150	<0.5	<2	8.12	<0.5	32	125	72	3.96	0.83	3.07	636	<1	0.96	105	40	<2	0.23	<5	171	0.13	99	<10	33	
315960	<0.001	<0.005	0.001	<0.5	9.8	<5	20	<0.5	<2	8.98	<0.5	28	112	18	4.18	0.14	3.5	782	<1	1.56	84	50	<2	0.02	<5	211	0.15	117	<10	32	
315961	<0.001	<0.005	0.001	<0.5	10.05	<5	30	<0.5	<2	8.66	<0.5	25	90	107	3.15	0.13	2.42	567	<1	1.78	72	40	<2	0.12	<5	234	0.11	85	<10	23	
315962	<0.001	0.005	0.002	<0.5	9.75	<5	20	<0.5	<2	8.34	<0.5	25	105	46	3.34	0.09	2.77	606	<1	1.43	84	40	<2	0.05	5	219	0.12	90	<10	26	
315963	0.001	<0.005	0.002	<0.5	8.65	<5	10	<0.5	<2	7.89	<0.5	30	111	55	3.93	0.04	3.28	741	<1	1.53	98	30	<2	0.02	<5	188	0.09	72	<10	34	
315964	<0.001	<0.005	0.002	<0.5	9.27	<5	10	<0.5	<2	7.95	<0.5	25	85	50	3.37	0.03	2.8	636	<1	1.77	80	40	<2	0.02	<5	210	0.08	59	<10	28	
315965	0.001	0.01	0.003	<0.5	10	<5	10	<0.5	<2	8.05	<0.5	30	98	79	4.07	0.06	3.67	755	<1	1.83	103	40	<2	0.03	5	202	0.08	68	<10	35	
315966	0.004	0.016	0.024	1.9	7.78	<5	10	<0.5	<2	7.59	0.6	59	219	609	6.86	0.08	5.73	1125	<1	1.05	316	50	9	0.68	<5	109	0.18	186	<10	109	
315967	0.001	<0.005	<0.001	<0.5	9.72	<5	10	<0.5	<2	8.58	<0.5	30	145	70	4.18	0.05	3.51	749	<1	1.19	90	60	<2	0.03	<5	199	0.17	151	<10	31	
315968	<0.001	<0.005	<0.001	<0.5	0.33	<5	20	<0.5	2	0.05	<0.5	1	5	4	0.07	0.11	0.03	13	<1	0.01	1	30	<2	0.01	<5	6	0.02	2	<10	4	
315969	0.002	<0.005	0.001	<0.5	9.55	<5	10	<0.5	<2	7.77	<0.5	31	145	75	4.46	0.06	3.48	784	<1	1.46	98	50	<2	0.07	<5	198	0.12	112	<10	37	
315970	0.001	<0.005	<0.001	<0.5	9.94	<5	10	<0.5	<2	7.25	<0.5	33	129	63	4.85	0.07	3.92	793	<1	1.71	92	40	<2	0.06	<5	180	0.11	89	<10	40	
315971	0.002	<0.005	<0.001	<0.5	8.16	<5	70	<0.5	<2	6	<0.5	64	224	423	7.75	0.28	6.48	1060	<1	1.13	181	330	3	1.02	<5	81	0.21	202	<10	62	
315972	0.001	<0.005	0.001	<0.5	10.15	<5	10	<0.5	<2	8.39	<0.5	31	134	91	4.37	0.11	3.54	759	<1	1.55	116	40	<2	0.09	<5	199	0.12	101	<10	34	
315973	0.001	<0.005	0.005	<0.5	10.05	<5	10	<0.5	<2	7.88	<0.5	47	170	256	5.93	0.12	4.5	930	<1	1.65	154	40	<2	0.41	<5	168	0.16	154	<10	73	
315974	<0.001	<0.005	0.004	<0.5	9.81	<5	10	<0.5	<2	8.26	<0.5	32	157	105	4.71	0.06	3.83	817	<1	1.03	113	40	4	0.09	<5	194	0.16	135	<10	35	
315975	0.001	<0.005	0.003	<0.5	9.66	<5	30	<0.5	4	7.83	<0.5	26	138	56	3.94	0.14	3.06	695	<1	1.58	84	40	2	0.05	<5	206	0.1	84	<10	32	
315976	0.002	<0.005	0.002	<0.5	9.2	<5	10	<0.5	<2	7.69	<0.5	40	196	53	5.82	0.08	4.99	1030	<1	1.28	127	30	4	0.04	<5	159	0.12	121	<10	49	
315977	<0.001	<0.005	0.001	<0.5	9.87	<5	20	<0.5	<2	7.71	<0.5	33	149	35	4.65	0.1	4.07	824	<1	1.67	101	30	<2	0.03	<5	210	0.09	80	<10	38	
315978	0.001	0.009	0.012	<0.5	10.2	<5	30	<0.5	<2	7.94	<0.5	30	123	109	4.22	0.16	3.7	740	<1	1.71	106	40	2	0.11	<5	244	0.1	89	<10	37	
315979	0.116	0.299	1.16	1.4	8.02	<5	320	0.6	<2	7.83	<0.5	64	150	3620	8.94	0.43	4	1305	<1	1.72	276	1690	9	0.8	<5	649	0.53	301	<10	93	
315980	<0.001	<0.005	0.001	<0.5	10.55	<5	50	<0.5	<2	8.42	<0.5	24	100	35	3.97	0.13	3.21	719	<1	1.88	76	50	2	0.07	<5	344	0.12	94	<10	34	
315981	0.001	<0.005	<0.001	0.5	9.59	<5	100	0.8	<2	7.4	<0.5	35	34	107	6.46	0.22	3.44	849	<1	2.32	32	1830	6	1.24	<5	1050	0.44	202	<10	51	
315982	0.001	<0.005	<0.001	<0.5	10.45	<5	40	<0.5	<2	8.74	<0.5	26	111	49	4.16	0.1	3.24	743	<1	1.87	95	40	5	0.16	<5	377	0.13	103	<10	36	
315983	<0.001	<0.005	<0.001	<0.5	8.3	<5	40	<0.5	<2	6.79	<0.5	49	167	45	7	0.22	5.85	1220	<1	1.41	140	60	<2	0.24	<5	163	0.14	134	<10	59	
315984	0.002	<0.005	0.003	<0.5	5.84	<5	20	<0.5	<2	6.47	<0.5	71	217	223	9.71	0.13	8.68	1570	<1	0.57	207	30	<2	1.63	<5	28	0.16	159	<10	94	
315985	0.001	<0.005	0.006	<0.5	10.5	<5	40	<0.5	<2	8	<0.5	27	90	50	4.12	0.17	3.23	716	<1	1.99	78	50	3	0.07	<5	244	0.1	81	<10	33	

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
315986	<0.001	<0.005	0.011	<0.5	9.75	<5	10	<0.5	<2	8.4	<0.5	34	149	83	5	0.09	3.93	873	<1	1.41	108	50	<2	0.08	<5	188	0.15	136	<10	40
315987	0.001	<0.005	0.005	<0.5	10.05	<5	20	<0.5	2	8.33	<0.5	29	113	56	4.38	0.09	3.41	753	<1	1.57	87	60	3	0.11	<5	206	0.12	111	<10	37
315988	0.001	<0.005	<0.001	<0.5	11.15	<5	70	<0.5	<2	8.63	<0.5	28	108	123	3.97	0.16	2.82	628	2	2.15	68	50	<2	0.39	<5	429	0.13	102	<10	26
315989	0.001	<0.005	0.001	<0.5	9.94	<5	30	0.7	<2	7.99	<0.5	72	33	640	6.8	0.12	3.22	782	<1	2.26	36	2630	5	2.16	<5	946	0.43	193	<10	36
315990	0.001	<0.005	<0.001	<0.5	0.35	<5	20	<0.5	<2	0.04	<0.5	<1	4	5	0.06	0.12	0.02	10	<1	0.01	<1	40	<2	0.01	<5	7	0.02	2	<10	2
315991	0.001	<0.005	<0.001	<0.5	11.15	<5	40	<0.5	<2	8.85	<0.5	21	94	68	3.65	0.18	2.76	646	<1	2.06	66	60	7	0.16	<5	359	0.12	100	<10	33
315992	<0.001	<0.005	<0.001	<0.5	10.3	<5	20	<0.5	2	8.64	<0.5	29	116	44	4.51	0.13	3.58	798	<1	1.64	89	90	4	0.09	<5	226	0.15	125	<10	36
315993	0.001	0.005	0.008	<0.5	10.25	<5	30	<0.5	2	8.33	<0.5	28	146	40	4.23	0.18	3.34	757	<1	1.76	98	40	4	0.01	<5	237	0.16	122	<10	37
315994	<0.001	<0.005	0.003	<0.5	10.2	<5	40	<0.5	3	8.8	<0.5	19	94	60	3.51	0.28	2.28	640	<1	1.74	73	60	3	0.06	<5	287	0.13	103	<10	22
315995	0.002	0.005	0.009	<0.5	8.95	<5	40	<0.5	2	7.02	<0.5	35	173	294	4.36	0.19	3.12	729	<1	1.51	167	30	<2	0.1	<5	234	0.14	101	<10	36
315996	0.019	0.027	0.037	1	9.45	<5	40	<0.5	2	7.83	<0.5	54	236	1775	6.03	0.17	4.29	905	<1	1.4	530	30	<2	0.62	<5	181	0.15	139	<10	46
315997	0.002	0.006	0.008	<0.5	9.98	<5	20	<0.5	2	8.14	<0.5	37	204	178	5.33	0.22	4.67	939	<1	1.78	157	40	3	0.07	<5	205	0.13	119	<10	41
315998	0.001	<0.005	0.001	<0.5	10.5	<5	20	<0.5	2	7.2	<0.5	22	69	70	4.27	0.24	1.85	647	<1	2.6	51	60	4	0.08	<5	261	0.29	175	<10	37

TM06075694 - Finalized
CLIENT : "NORSHI - Northern Shield Resources Inc."
# of SAMPLES : 70
DATE RECEIVED : 2006-08-10 DATE FINALIZED : 2006-09-11
PROJECT : " "
CERTIFICATE COMMENTS : ""
PO NUMBER : " "

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
315291	<0.001	<0.005	<0.001	0.8	9.31	12	340	2.2	3	1.45	<0.5	38	3	595	4.21	4.12	1.88	254	44	2.05	9	100	10	1.23	9	237	0.18	6	<10	28
315292	<0.001	<0.005	<0.001	<0.5	11.6	<5	140	1.5	6	5.39	<0.5	25	2	153	4.07	1.25	0.58	343	20	3.51	10	430	13	0.97	9	424	0.42	18	<10	103
315293	<0.001	<0.005	<0.001	0.5	10.95	<5	120	0.7	5	5.78	<0.5	13	2	65	2.62	1.12	0.41	275	1	3.35	3	350	12	0.41	6	456	0.2	11	<10	42
315294	<0.001	<0.005	<0.001	<0.5	9.28	<5	70	1	<2	6.54	<0.5	7	4	19	2.29	0.75	0.22	327	<1	3.77	1	340	8	0.2	<5	476	0.4	17	<10	34
315295	<0.001	<0.005	<0.001	4	11.2	<5	160	1.3	26	6.42	<0.5	102	2	3660	6.83	1.46	1.2	421	135	2.65	24	730	20	1.94	<5	366	0.42	33	<10	95
315296	<0.001	<0.005	<0.001	<0.5	10.45	<5	110	0.9	4	6.25	<0.5	28	3	80	3.94	1.09	0.33	350	1	3.49	9	360	14	1.09	5	459	0.54	19	<10	145
315297	<0.001	<0.005	<0.001	<0.5	8.78	<5	20	<0.5	<2	5.96	<0.5	86	39	101	16.35	0.11	2.17	1410	<1	1.64	15	30	<2	0.65	<5	178	3.43	668	<10	180
315298	<0.001	<0.005	<0.001	<0.5	10.35	<5	30	<0.5	<2	5.75	<0.5	70	47	57	14.65	0.12	1.14	1105	<1	2.09	13	20	<2	0.51	<5	279	3.46	651	<10	126
315299	<0.001	0.005	<0.001	<0.5	0.34	<5	10	<0.5	<2	0.03	<0.5	<1	3	3	0.06	0.12	0.02	13	<1	0.01	2	30	3	0.01	<5	5	0.02	2	<10	<2
315300	<0.001	<0.005	<0.001	<0.5	9.26	<5	20	<0.5	<2	6.39	<0.5	77	39	34	15.9	0.1	2.35	1395	<1	1.55	11	30	<2	0.45	<5	175	3.2	625	<10	130
315301	<0.001	<0.005	<0.001	<0.5	9.82	<5	30	<0.5	<2	6.76	<0.5	58	35	42	14.15	0.12	2.28	1320	<1	1.82	9	30	<2	0.18	<5	208	2.82	554	<10	123
315302	<0.001	<0.005	<0.001	<0.5	11.6	<5	50	<0.5	<2	6.75	<0.5	41	32	31	9.88	0.23	0.77	749	<1	2.42	9	30	<2	0.26	<5	425	2.16	419	<10	71
315303	<0.001	<0.005	<0.001	<0.5	8.18	<5	20	<0.5	<2	5.64	<0.5	124	28	326	19.35	0.1	1.96	1460	<1	1.43	18	20	<2	1.15	<5	150	4.48	862	<10	206
315304	<0.001	<0.005	<0.001	<0.5	8.38	<5	10	<0.5	<2	5.78	<0.5	101	6	59	18.65	0.08	2.22	1490	<1	1.51	10	20	<2	0.6	<5	169	4.16	832	<10	196
315305	0.001	<0.005	<0.001	<0.5	7.58	<5	10	<0.5	<2	4.85	<0.5	113	8	91	23.3	0.06	1.98	1725	<1	1.34	17	10	4	0.77	<5	135	5.28	1120	<10	212
315306	<0.001	<0.005	<0.001	<0.5	8.32	<5	10	<0.5	<2	5.63	<0.5	97	13	59	20.6	0.07	2.21	1655	<1	1.53	12	20	3	0.5	<5	171	4.47	955	<10	190
315307	0.002	<0.005	<0.001	<0.5	11.8	<5	200	2	5	4.66	<0.5	101	2	185	6.87	2.01	1.05	380	146	3.02	19	390	6	2.7	<5	415	0.41	28	<10	28
315308	0.007	<0.005	<0.001	<0.5	10.7	<5	150	0.8	9	6.55	<0.5	29	1	113	4.86	1.49	1.25	357	<1	2.43	7	350	4	1.22	<5	305	0.63	22	<10	19
315309	0.001	<0.005	<0.001	<0.5	10.25	<5	70	0.5	<2	6.6	<0.5	17	3	28	3.34	0.85	0.21	396	2	3.69	3	350	4	0.46	<5	499	0.77	21	<10	27
315310	0.134	0.418	1.145	1.5	8.66	<5	350	0.7	<2	8.46	<0.5	66	149	3700	9.32	0.47	4.34	1395	<1	1.82	276	1830	10	0.9	<5	702	0.57	307	<10	93
315314	<0.001	<0.005	<0.001	<0.5	5.61	<5	40	0.9	<2	2.48	<0.5	76	31	56	30.7	1.26	2.06	2680	<1	0.91	22	160	3	0.78	<5	117	8.27	324	<10	213
315315	<0.001	<0.005	<0.001	<0.5	6.53	<5	40	1	<2	2.17	<0.5	118	43	187	28.2	0.95	1.52	2560	<1	1.72	33	90	6	2.25	<5	298	7.65	321	<10	176
315316	<0.001	<0.005	<0.001	<0.5	7.53	<5	30	0.6	<2	3.59	<0.5	75	37	58	22.5	0.78	2.33	2720	<1	1.41	26	130	2	0.68	<5	198	5.41	244	<10	184
315317	<0.001	<0.005	0.001	<0.5	6.43	<5	20	<0.5	<2	3.08	<0.5	88	52	76	32.5	0.48	2.15	2500	<1	0.89	26	60	3	0.86	<5	66	8	364	<10	242
315318	<0.001	<0.005	<0.001	<0.5	9.19	<5	20	<0.5	<2	5.45	<0.5	79	30	51	16.6	0.08	2.61	1640	<1	2.08	12	50	2	0.48	<5	264	3.54	654	<10	152
315319	<0.001	<0.005	<0.001	<0.5	9.72	<5	20	<0.5	<2	6.46	<0.5	60	10	50	12.2	0.06	3.78	1420	<1	1.95	5	50	<2	0.3	<5	237	1.59	295	<10	123
315320	<0.001	<0.005	<0.001	<0.5	9.14	<5	20	<0.5	<2	5.63	<0.5	89	40	60	20.6	0.09	1.65	1470	<1	1.71	13	20	<2	0.51	<5	216	4.65	1050	<10	181
315321	<0.001	<0.005	<0.001	<0.5	0.32	<5	10	<0.5	<2	0.03	<0.5	<1	3	3	0.07	0.12	0.02	10	<1	0.01	2	40	2	0.01	<5	5	0.02	3	<10	<2
315322	<0.001	<0.005	0.002	<0.5	7.96	<5	10	<0.5	<2	6.42	<0.5	98	27	78	19.55	0.09	3	1720	<1	1.37	12	30	3	0.6	<5	138	4.03	922	<10	183
315323	<0.001	<0.005	<0.001	<0.5	9.39	<5	20	<0.5	<2	5.7	<0.5	119	30	81	18.65	0.11	1.84	1355	<1	1.92	16	30	3	1.23	<5	266	3.87	909	<10	161
315324	<0.001	<0.005	<0.001	<0.5	6.66	<5	10	<0.5	<2	4.5	<0.5	108	27	64	26.9	0.08	2.12	1645	<1	1.14	14	20	<2	0.51	<5	100	4.92	1290	<10	208
315325	<0.001	<0.005	<0.001	<0.5	8.37	<5	20	<0.5	<2	6.52	<0.5	78	18	48	16.15	0.12	3.04	1595	<1	1.56	9	30	<2	0.4	<5	159	2.9	723	<10	139
315326	0.099	<0.005	<0.001	<0.5	7.71	<5	10	<0.5	<2	6.79	<0.5	98	26	94	17.55	0.1	3.62	1815	<1	1.32	11	10	2	0.84	<5	97	3.11	778	<10	153
315327	<0.001	<0.005	<0.001	<0.5	10.4	<5	30	<0.5	<2	7.3	<0.5	48	17	3	10.85	0.11	2.58	1195	<1	2.27	3	30	2	0.02	<5	284	1.61	426	<10	102
315328	<0.001	<0.005	0.001	<0.5	7.77	<5	20	<0.5	<2	4.9	<0.5	97	56	130	21.2	0.09	1.71	1595	<1	1.54	13	10	3	1.11	<5	221	4.9	1260	<10	142
315329	<0.001	<0.005	<0.001	<0.5	9.22	<5	30	<0.5	<2	7.75	<0.5	68	2	3	12	0.13	3.66	1420	<1	1.71	5	30	<2	0.01	<5	198	1.58	439	<10	139
315330	<0.001	<0.005	<0.001	<0.5	7.13	<5	20	<0.5	<2	4.84	<0.5	127	2	113	23.9	0.09	2.06	1665	<1	1.2	15	20	2	0.84	<5	139	5.33	1370	<10	208
315331	<0.001	<0.005	<0.001	<0.5	9.52	<5	20	<0.5	<2	6.21	<0.5	90	<1	56	18.65	0.1	2.2	1440	<1	1.77	10	30	<2	0.41	<5	214	3.93	1020	<10	183
315332	0.119	0.39	1.21	1.6	8.59	<5	340	0.6	<2	8.2	<0.5	66	139	3690	9.13	0.47	4.22	1365	<1	1.82	268	1820	12	0.86	<5	704	0.57	309	<10	91

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
315333	<0.001	<0.005	0.001	0.5	7.2	8	20	<0.5	2	4.11	<0.5	150	<1	54	29.6	0.07	1.39	1625	1	1.09	19	20	<2	0.63	<5	147	5.94	1605	<10	238
315334	<0.001	<0.005	<0.001	<0.5	5.02	<5	10	<0.5	<2	2.9	<0.5	164	<1	73	35.9	0.04	1.08	1905	2	0.72	11	10	<2	0.56	<5	76	7.61	1725	<10	270
315335	0.003	<0.005	0.003	<0.5	7.53	<5	10	<0.5	12	5.59	<0.5	115	<1	101	24.3	0.09	2.22	1700	<1	1.06	11	20	<2	0.73	<5	113	5.31	1295	<10	209
315336	0.002	<0.005	0.001	<0.5	8.62	9	10	<0.5	7	7.8	<0.5	83	<1	30	15.9	0.1	3.1	1575	<1	1.09	17	40	<2	0.12	<5	163	2.62	742	<10	146
315337	0.001	<0.005	<0.001	<0.5	7.53	<5	10	<0.5	12	5.42	<0.5	117	<1	75	23.3	0.09	2.03	1605	1	1.11	3	20	<2	0.6	<5	141	4.97	1460	<10	212
315338	0.001	<0.005	<0.001	0.6	6.5	<5	10	<0.5	<2	4.14	<0.5	152	<1	73	29.7	0.07	1.58	1735	1	1	19	20	<2	0.53	<5	125	5.93	1860	10	256
315339	<0.001	<0.005	<0.001	0.8	6.66	<5	10	<0.5	<2	3.7	<0.5	170	<1	79	32.4	0.07	1.69	1830	1	0.89	28	20	<2	0.51	<5	92	6.49	2070	<10	283
315340	0.001	<0.005	0.011	<0.5	7.41	<5	20	<0.5	9	4.25	<0.5	149	<1	75	26.7	0.1	1.75	1720	<1	1.04	18	20	<2	0.53	<5	142	5.94	1870	<10	249
315341	0.001	<0.005	<0.001	<0.5	6.4	<5	20	<0.5	<2	4.18	<0.5	150	<1	86	32.6	0.1	1.89	2010	<1	0.78	33	10	<2	0.54	<5	90	6.3	2200	10	241
315342	<0.001	<0.005	<0.001	<0.5	7.4	<5	20	<0.5	<2	5.61	<0.5	113	1	104	23.5	0.13	2.86	1645	<1	1.05	25	20	2	0.67	<5	145	4.75	1500	<10	180
315343	<0.001	<0.005	<0.001	<0.5	0.35	<5	20	<0.5	<2	0.04	<0.5	<1	3	3	0.14	0.12	0.02	18	<1	0.01	1	40	2	0.01	<5	6	0.03	7	<10	<2
315344	<0.001	<0.005	<0.001	<0.5	9.54	<5	30	<0.5	<2	6.53	<0.5	83	2	70	17.05	0.19	2.16	1325	<1	1.71	16	20	3	0.46	<5	199	3.27	1030	<10	147
315345	<0.001	<0.005	<0.001	<0.5	11.15	<5	80	4.3	<2	6.39	<0.5	25	2	23	6.2	0.24	1.21	572	<1	3.5	7	220	3	0.12	<5	463	0.95	307	10	72
315346	<0.001	<0.005	<0.001	<0.5	11.55	<5	40	<0.5	<2	6.44	<0.5	65	2	107	14.2	0.19	1.05	908	<1	2.26	19	40	17	0.58	<5	275	2.74	939	<10	131
315347	0.001	0.016	<0.001	<0.5	11.15	<5	60	<0.5	<2	5.76	<0.5	78	<1	68	18.1	0.23	1.23	1115	<1	2.18	25	560	<2	0.46	<5	280	3.68	1240	<10	147
315348	<0.001	<0.005	<0.001	<0.5	8.49	<5	20	<0.5	<2	4.91	<0.5	97	2	128	23	0.14	1.59	1540	<1	1.58	44	20	<2	0.69	<5	189	5.03	1800	10	180
315349	<0.001	<0.005	<0.001	<0.5	9.62	<5	30	<0.5	<2	8.41	<0.5	54	33	47	11.1	0.24	3.66	1415	<1	1.6	48	30	2	0.13	<5	238	1.44	520	<10	88
315350	<0.001	<0.005	<0.001	<0.5	6.43	<5	10	<0.5	<2	4.35	<0.5	115	19	72	30	0.1	2.25	1705	<1	0.76	36	10	2	0.66	<5	76	5.32	1880	<10	199
315351	<0.001	<0.005	<0.001	<0.5	7.15	<5	10	<0.5	<2	3.92	<0.5	129	<1	65	32.1	0.1	1.59	1645	<1	0.89	35	20	2	0.43	<5	124	5.97	2160	<10	237
315352	<0.001	<0.005	<0.001	<0.5	6.55	<5	10	<0.5	<2	3.44	<0.5	136	2	75	34.1	0.08	1.38	1690	<1	0.79	39	20	3	0.49	<5	122	6.37	2300	<10	242
315353	<0.001	<0.005	<0.001	<0.5	5.85	<5	10	<0.5	<2	3.94	<0.5	143	6	59	36	0.06	2.05	1810	<1	0.75	35	280	3	0.53	<5	48	6.42	2330	<10	276
315354	0.105	0.374	1.22	1.7	9.24	<5	360	0.7	<2	8.76	<0.5	68	155	3940	9.76	0.49	4.51	1455	<1	1.95	282	1960	10	0.95	<5	755	0.6	325	<10	97
315355	<0.001	<0.005	<0.001	<0.5	10.15	<5	20	<0.5	<2	5.42	<0.5	95	5	117	17.45	0.1	0.98	982	<1	1.79	37	60	2	0.67	<5	248	3.54	1270	<10	140
315356	<0.001	<0.005	<0.001	<0.5	7.14	<5	10	<0.5	<2	4.46	<0.5	127	14	83	31.1	0.09	1.9	1625	<1	1.02	42	20	2	0.52	<5	112	5.5	2020	<10	232
315357	<0.001	<0.005	<0.001	<0.5	10.5	<5	20	<0.5	<2	5.85	<0.5	91	17	106	17.8	0.1	1.34	1150	<1	2	35	20	3	0.63	<5	259	3.69	1300	<10	143
315358	<0.001	<0.005	<0.001	<0.5	7.99	<5	10	<0.5	<2	7.14	<0.5	79	8	61	14.7	0.12	3.84	1615	<1	1.22	34	30	2	0.28	<5	156	2.02	763	<10	123
315359	<0.001	<0.005	<0.001	<0.5	6.98	<5	10	<0.5	<2	7.31	<0.5	88	29	88	16.15	0.12	4.47	1855	<1	1.04	49	20	<2	0.58	<5	90	2.29	888	<10	123
315360	<0.001	<0.005	<0.001	<0.5	8.17	<5	20	<0.5	<2	7.4	<0.5	69	13	104	12.9	0.17	3.36	1425	<1	1.37	28	20	<2	0.37	<5	169	1.86	718	<10	136

TM06075695 - Finalized
CLIENT : "NORSHI - Northern Shield Resources Inc."
# of SAMPLES : 44
DATE RECEIVED : 2006-08-10 DATE FINALIZED : 2006-09-08
PROJECT : " "
CERTIFICATE COMMENTS : ""
PO NUMBER : " "

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
315361	<0.001	<0.005	<0.001	<0.5	11.25	<5	50	1	<2	7.28	<0.5	42	15	101	8.7	0.14	0.65	641	<1	2.63	22	30	2	0.55	<5	404	1.54	589	<10	61
315362	0.001	<0.005	<0.001	<0.5	11.95	<5	50	1	<2	6.88	<0.5	49	29	186	10.7	0.2	0.75	792	<1	2.7	29	30	2	1.14	<5	355	2.22	821	<10	85
315363	<0.001	<0.005	<0.001	<0.5	9.9	<5	50	<0.5	<2	6.92	<0.5	53	26	38	14.3	0.28	2.14	1190	3	1.71	34	30	<2	0.2	<5	222	2.53	1020	<10	127
315364	<0.001	<0.005	<0.001	<0.5	8.69	<5	100	<0.5	<2	4.54	<0.5	77	15	187	19.3	0.57	2.08	1325	<1	1.8	67	20	2	0.83	<5	200	3.5	1380	<10	162
315365	<0.001	<0.005	<0.001	<0.5	0.34	<5	10	<0.5	<2	0.03	<0.5	<1	3	3	0.07	0.12	0.02	10	<1	0.01	2	30	2	0.01	<5	5	0.02	3	<10	<2
315366	<0.001	<0.005	<0.001	<0.5	11.15	<5	70	1.3	<2	5.3	<0.5	77	17	309	10.7	0.34	1.25	880	5	2.99	51	10	<2	1.53	<5	298	2.21	676	<10	108
315367	<0.001	<0.005	<0.001	<0.5	10.35	<5	20	<0.5	<2	8.16	<0.5	44	25	120	8.95	0.18	2.96	1090	<1	1.76	77	20	<2	0.16	<5	211	0.92	517	<10	74
315368	<0.001	<0.005	<0.001	<0.5	10.9	<5	20	<0.5	<2	8.45	<0.5	37	37	35	7.02	0.19	3.04	1040	<1	1.91	43	40	2	0.09	<5	236	0.63	279	<10	64
315369	<0.001	<0.005	<0.001	<0.5	10.9	<5	50	1.1	<2	8.11	<0.5	23	19	12	5.53	0.22	1.75	765	<1	2.78	15	110	5	0.03	<5	332	0.51	223	<10	50
315370	<0.001	<0.005	<0.001	0.5	7.25	<5	50	<0.5	<2	4.39	<0.5	141	83	89	25.4	0.43	1.59	1435	<1	1.2	59	30	<2	0.65	<5	174	4.89	2190	<10	206
315371	<0.001	<0.005	<0.001	<0.5	12.1	<5	90	<0.5	<2	7.11	<0.5	48	45	37	11.4	0.4	0.84	784	<1	2.4	18	30	4	0.18	<5	421	2.16	894	<10	83
315372	<0.001	<0.005	<0.001	<0.5	12	<5	50	<0.5	<2	7.15	<0.5	50	67	20	11.8	0.31	0.88	838	<1	2.35	15	50	3	0.13	5	383	2.29	951	<10	94
315373	<0.001	<0.005	<0.001	<0.5	11.35	<5	50	<0.5	<2	7.35	<0.5	38	42	38	7.69	0.27	0.72	580	<1	2.54	13	30	3	0.25	<5	347	1.36	590	<10	69
315374	<0.001	<0.005	<0.001	<0.5	12.05	<5	70	<0.5	<2	7.38	<0.5	36	48	15	8.97	0.44	0.58	605	<1	2.56	10	110	2	0.08	<5	405	1.84	731	<10	75
315375	<0.001	<0.005	<0.001	<0.5	11.65	<5	50	<0.5	<2	7.19	<0.5	45	3	32	10.1	0.23	0.87	702	<1	2.24	22	40	5	0.28	<5	299	1.73	756	<10	82
315376	0.129	0.431	1.215	1.4	8.2	<5	330	0.6	<2	7.96	<0.5	65	145	3760	8.83	0.45	4.11	1325	<1	1.81	270	1760	9	0.86	<5	670	0.59	322	<10	92
315377	<0.001	<0.005	0.001	<0.5	11.25	<5	40	<0.5	<2	5.82	<0.5	79	2	101	15.8	0.27	0.92	868	4	2.3	35	40	2	0.62	<5	296	2.95	1410	<10	138
315378	<0.001	<0.005	<0.001	<0.5	6.02	<5	10	<0.5	<2	3.14	<0.5	130	5	50	36.2	0.09	1.04	1585	<1	0.85	51	10	<2	0.28	<5	119	6.37	3230	<10	287
315379	<0.001	<0.005	<0.001	<0.5	12.3	<5	20	<0.5	<2	6.85	<0.5	57	3	43	12.25	0.11	0.6	657	<1	2.4	26	40	4	0.28	<5	304	2.27	1050	<10	93
315380	<0.001	<0.005	<0.001	<0.5	8.66	<5	20	<0.5	<2	4.46	<0.5	112	9	65	24.1	0.11	0.94	1290	<1	1.43	51	20	<2	0.4	<5	210	4.86	2380	<10	204
315381	<0.001	<0.005	<0.001	<0.5	12.2	<5	30	<0.5	<2	6.88	<0.5	75	4	57	15.6	0.14	0.91	823	<1	2.09	37	30	5	0.35	<5	280	2.85	1400	<10	129
315382	<0.001	<0.005	<0.001	<0.5	8.9	<5	20	<0.5	<2	4.23	<0.5	129	12	50	34.4	0.1	1.07	1485	<1	1.3	67	20	<2	0.32	<5	222	5.85	3100	<10	229
315383	<0.001	<0.005	<0.001	<0.5	7.56	6	20	<0.5	<2	3.83	<0.5	136	46	49	29.5	0.11	1.56	1530	<1	0.95	72	30	<2	0.28	<5	139	5.52	2970	<10	248
315384	<0.001	<0.005	<0.001	<0.5	8.29	<5	110	0.5	<2	2.13	<0.5	15	5	24	5.05	0.31	0.44	588	<1	4.33	4	90	<2	0.28	<5	306	0.48	50	<10	39
315385	<0.001	<0.005	<0.001	<0.5	11.95	<5	30	<0.5	2	6.6	<0.5	66	36	89	13.35	0.16	0.97	781	5	2.49	46	30	<2	0.49	<5	286	2.33	1230	<10	107
315386	<0.001	<0.005	<0.001	<0.5	11.75	<5	40	<0.5	<2	6.7	<0.5	59	17	109	10.6	0.18	0.67	641	<1	2.49	54	30	3	0.59	<5	296	1.85	908	<10	77
315387	<0.001	0.008	<0.001	<0.5	0.39	<5	20	<0.5	<2	0.04	<0.5	<1	2	4	0.09	0.13	0.02	11	<1	0.01	1	40	<2	0.01	<5	5	0.02	3	<10	2
315388	<0.001	<0.005	<0.001	<0.5	12.15	<5	50	<0.5	<2	7.1	<0.5	70	15	140	12.05	0.22	0.68	687	<1	2.42	65	30	2	0.61	<5	300	2.13	1090	<10	91
315389	<0.001	<0.005	<0.001	0.5	11	<5	60	<0.5	<2	7.06	<0.5	32	5	54	4.7	0.37	0.38	356	<1	3.02	25	40	4	0.67	<5	393	0.68	370	<10	43
315390	<0.001	<0.005	<0.001	<0.5	11	<5	30	<0.5	<2	6.54	<0.5	53	17	57	11.05	0.23	0.72	686	<1	2.33	41	20	5	0.41	<5	280	1.98	988	<10	87
315391	<0.001	<0.005	<0.001	<0.5	11.75	<5	120	<0.5	<2	6.88	<0.5	43	15	52	7.85	0.54	0.63	559	<1	3.03	31	30	2	0.27	<5	318	1.29	627	<10	70
315392	<0.001	<0.005	<0.001	<0.5	11.05	<5	20	<0.5	<2	6.04	<0.5	65	32	53	14.9	0.24	0.8	807	<1	2.17	43	20	2	0.32	<5	290	2.73	1450	<10	107
315393	<0.001	<0.005	<0.001	<0.5	10.05	<5	30	<0.5	<2	6.27	<0.5	77	52	19	15.95	0.34	1.76	1070	<1	1.92	41	30	<2	0.09	<5	244	2.83	1500	<10	142
315394	<0.001	<0.005	<0.001	<0.5	7.92	<5	70	<0.5	<2	4.19	<0.5	117	70	73	32.1	0.47	1.37	1485	<1	1.1	72	20	4	0.59	<5	177	5.31	2880	<10	196
315395	0.002	<0.005	<0.001	<0.5	10.15	<5	150	0.5	<2	5.74	<0.5	108	35	194	16.8	0.6	1.4	1195	<1	1.86	60	40	<2	1.29	<5	327	3.21	1430	<10	128
315396	0.001	<0.005	<0.001	<0.5	3.83	<5	10	<0.5	<2	0.81	<0.5	45	67	82	8.59	0.32	2.08	879	<1	0.22	8	50	6	0.5	<5	17	0.86	97	<10	161
315397	0.001	<0.005	<0.001	<0.5	8.27	<5	80	1.4	<2	4.91	<0.5	138	4	178	20.4	0.55	2.64	1635	<1	0.66	70	40	4	1.08	<5	136	4.93	2250	<10	162
315398	0.118	0.379	1.21	1.6	8.45	<5	340	0.7	<2	8.24	<0.5	66	148	3770	9.23	0.46	4.24	1375	<1	1.84	279	1800	11	0.89	<5	685	0.6	328	<10	94
315399	0.001	<0.005	<0.001	<0.5	10.2	<5	20	<0.5	<2	6.38	<0.5	78	23	68	13.65	0.31	2.49	1185	<1	1.83	50	20	<2	0.4	<5	206	2.03	1010	<10	119

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
315400	<0.001	<0.005	<0.001	<0.5	11	<5	30	<0.5	3	6.1	<0.5	79	36	114	14.05	0.22	1.22	882	<1	2.27	74	20	2	0.68	<5	275	2.37	1170	<10	116
315401	<0.001	<0.005	<0.001	<0.5	11.3	<5	40	<0.5	<2	6.67	<0.5	69	28	105	12.1	0.28	1.04	797	<1	1.97	51	30	4	0.66	<5	298	2.17	1080	<10	98
315402	<0.001	<0.005	<0.001	<0.5	11.65	5	60	<0.5	<2	6.55	<0.5	57	14	94	10.8	0.35	0.81	635	<1	2.3	50	30	3	0.53	<5	317	1.79	884	<10	87
315403	<0.001	<0.005	<0.001	<0.5	10.5	<5	30	0.7	<2	6.76	<0.5	30	5	32	7.85	0.75	1.82	1115	<1	2.85	<1	100	8	0.21	<5	279	1.55	44	<10	74
315999	<0.001	0.105	0.213	<0.5	3.54	<5	<10	<0.5	11	0.08	<0.5	83	>10000	3	7.41	0.01	15.5	861	3	0.02	1290	30	3	0.01	86	11	0.12	384	10	169

TM06079380 - Finalized
CLIENT : "NORSHI - Northern Shield Resources Inc."
# of SAMPLES : 25
DATE RECEIVED : 2006-08-17 DATE FINALIZED : 2006-08-23
PROJECT : " "
CERTIFICATE COMMENTS : ""
PO NUMBER : " "

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
315311	0.002	<0.005	<0.001	<0.5	10.45	<5	120	0.6	<2	6.11	<0.5	25	3	48	4.89	1.01	0.33	506	2	3.17	9	530	5	0.81	<5	455	0.7	25	<10	39
315312	0.002	<0.005	<0.001	0.6	7.21	<5	110	2.3	<2	3.35	<0.5	128	15	344	16.6	0.78	1.39	1445	8	1.95	43	260	14	4.34	<5	301	3.27	110	<10	125
315313	<0.001	<0.005	<0.001	0.5	5.62	6	70	0.5	<2	2.43	<0.5	79	47	112	31	1.05	1.76	2670	2	0.84	12	80	3	1.09	<5	132	8.11	357	<10	205
315404	<0.001	<0.005	<0.001	<0.5	10.55	<5	50	0.6	<2	6.86	<0.5	33	6	27	7.92	1	1.76	1075	2	2.56	<1	180	7	0.16	<5	282	1.4	37	<10	72
315405	<0.001	<0.005	<0.001	<0.5	9.68	<5	190	<0.5	<2	6.04	<0.5	17	5	1	5.01	1.72	1.55	919	1	2.91	<1	180	3	0.01	<5	319	1	15	<10	44
315406	<0.001	<0.005	<0.001	<0.5	4.3	7	10	<0.5	<2	4.4	<0.5	63	7	99	15.2	0.16	6.33	3030	1	0.55	26	50	2	0.44	<5	13	0.77	24	<10	127
315407	<0.001	<0.005	<0.001	<0.5	7.07	7	30	<0.5	<2	5.5	<0.5	51	6	74	12.6	0.49	4.86	2190	2	1.33	12	80	8	0.4	<5	152	1.18	27	<10	104
315408	<0.001	<0.005	<0.001	<0.5	5.66	<5	10	1.7	<2	2.92	<0.5	41	4	118	9.36	0.13	3.77	2690	1	1.72	18	240	8	0.38	<5	185	0.46	12	<10	119
315409	<0.001	<0.005	<0.001	<0.5	0.33	<5	20	<0.5	<2	0.03	<0.5	<1	5	4	0.05	0.12	0.02	13	<1	0.01	2	50	5	0.01	<5	4	0.02	1	<10	2
315410	<0.001	<0.005	<0.001	<0.5	4.79	8	10	<0.5	<2	4.58	<0.5	61	7	90	15.05	0.15	6.28	3080	1	0.68	35	150	6	0.33	<5	40	0.73	22	<10	131
315411	<0.001	<0.005	<0.001	<0.5	5.21	<5	10	<0.5	<2	4.71	<0.5	68	5	107	15.4	0.19	6.4	2940	1	0.84	33	120	<2	0.45	<5	78	0.56	19	<10	129
315412	<0.001	<0.005	<0.001	<0.5	5.19	<5	10	<0.5	<2	4.74	<0.5	64	5	84	15.35	0.14	6.24	2900	1	0.79	24	50	4	0.35	<5	64	1.1	21	<10	124
315413	<0.001	<0.005	<0.001	<0.5	3.99	5	<10	<0.5	<2	4.21	<0.5	73	6	115	17.7	0.1	7.32	3470	<1	0.64	23	160	3	0.53	<5	52	0.96	33	<10	144
315414	<0.001	<0.005	<0.001	<0.5	4.39	<5	10	<0.5	<2	4.24	<0.5	73	5	141	16.15	0.15	6.62	3160	1	0.74	25	120	2	0.63	<5	90	0.71	21	<10	131
315415	<0.001	<0.005	<0.001	<0.5	4.99	<5	10	<0.5	<2	4.51	<0.5	68	4	124	14.7	0.18	6.17	2860	1	0.85	29	50	5	0.51	<5	125	0.56	17	<10	119
315416	<0.001	<0.005	0.004	<0.5	4.02	5	10	<0.5	<2	4.36	<0.5	76	4	151	16	0.15	6.79	3140	<1	0.7	33	50	7	0.68	<5	72	0.29	18	<10	130
315417	<0.001	<0.005	<0.001	<0.5	2.92	<5	<10	<0.5	<2	4.97	<0.5	91	13	290	18	0.05	7.51	3210	1	0.43	40	40	<2	1.34	<5	7	0.53	36	<10	131
315418	<0.001	<0.005	<0.001	<0.5	3.44	<5	<10	<0.5	<2	4.95	<0.5	73	10	169	15.75	0.09	6.79	2950	<1	0.54	33	50	3	0.76	<5	23	0.56	32	<10	123
315419	<0.001	<0.005	<0.001	<0.5	7.75	<5	40	<0.5	<2	7.82	<0.5	29	64	16	7.84	0.5	4.34	1210	1	1.45	46	360	<2	0.06	<5	212	1.16	328	<10	58
315420	0.175	0.5	1.195	1.1	8.31	<5	330	0.7	<2	8.43	<0.5	62	156	3870	9.54	0.44	4.21	1355	1	1.79	281	1760	12	0.82	<5	674	0.55	315	<10	94
315421	<0.001	<0.005	0.003	<0.5	7.92	<5	10	<0.5	<2	7.95	<0.5	51	132	21	13.15	0.2	4.83	1555	10	1.55	215	70	4	0.07	<5	179	0.98	209	<10	101
315422	0.001	<0.005	0.003	<0.5	5.16	<5	<10	<0.5	<2	7.41	<0.5	70	221	127	16.8	0.15	5.33	2100	1	0.76	175	60	<2	0.66	<5	27	2.4	218	<10	127
315423	<0.001	<0.005	<0.001	<0.5	8.42	<5	20	<0.5	<2	7.28	<0.5	54	5	56	14.5	0.25	2.9	1625	2	1.66	6	70	<2	0.27	<5	203	2.53	82	<10	117
315424	<0.001	<0.005	<0.001	<0.5	10.7	<5	20	0.5	<2	7.44	<0.5	38	8	34	9.27	0.32	2.13	1160	2	2.53	1	180	8	0.18	<5	257	1.46	53	<10	81
315425	<0.001	<0.005	<0.001	<0.5	7.66	7	10	<0.5	<2	6.77	<0.5	58	8	69	13.85	0.16	3.27	1600	1	1.45	2	70	7	0.37	<5	119	2.23	74	<10	104

TM06110731 - Finalized
CLIENT : "NORSHI - Northern Shield Resources Inc."
# of SAMPLES : 85
DATE RECEIVED : 2006-11-03 DATE FINALIZED : 2006-11-27
PROJECT : "HL"
CERTIFICATE COMMENTS : ""
PO NUMBER : " "

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
DESCRIPT	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
415301	0.002	<0.005	<0.001	1	10	9	20	<0.5	<2	7.1	<0.5	71	125	360	9.75	0.05	3.19	908	<1	1.62	122	80	9	0.39	5	246	0.63	366	<10	73
415302	0.003	<0.005	<0.001	<0.5	9.84	<5	30	<0.5	<2	6.86	<0.5	69	82	187	9.42	0.07	3.51	946	<1	1.63	95	140	13	0.24	<5	236	0.52	294	<10	70
415303	<0.001	<0.005	<0.001	<0.5	9.63	7	10	<0.5	<2	8.65	<0.5	52	67	93	8.23	0.09	4.38	1090	<1	1.11	61	60	9	0.1	<5	186	0.5	316	<10	61
415304	0.002	<0.005	<0.001	<0.5	9.33	<5	20	<0.5	<2	8.63	<0.5	44	59	55	7	0.09	3.34	924	<1	1.31	51	60	7	0.06	5	214	0.42	268	<10	51
415305	0.003	0.012	0.043	<0.5	9.25	<5	20	<0.5	<2	8.68	<0.5	39	49	63	5.99	0.08	3.31	875	<1	1.3	45	80	6	0.06	<5	217	0.32	214	<10	45
415306	<0.001	<0.005	0.001	<0.5	6.06	10	10	<0.5	<2	5.91	<0.5	109	151	367	14.2	0.06	5.38	1420	<1	0.83	177	150	12	0.54	<5	63	0.92	585	<10	96
415307	<0.001	<0.005	<0.001	<0.5	10.1	<5	20	<0.5	<2	7.58	<0.5	36	29	64	5.09	0.09	2.15	615	<1	1.77	44	160	11	0.05	<5	319	0.23	121	<10	38
415308	<0.001	<0.005	<0.001	<0.5	6.62	<5	10	<0.5	<2	4.8	<0.5	115	76	371	14.65	0.05	6.54	1630	<1	0.8	159	120	7	0.41	5	98	0.65	385	<10	111
415309	<0.001	<0.005	0.001	<0.5	8.95	<5	20	<0.5	<2	6.78	<0.5	70	61	228	10.1	0.08	3.4	1010	<1	1.47	108	120	4	0.3	<5	235	0.72	441	<10	73
415310	<0.001	<0.005	<0.001	<0.5	10.1	6	10	<0.5	<2	7.56	<0.5	60	63	224	11.25	0.08	3.1	912	<1	1.4	82	60	14	0.26	<5	191	1.04	741	<10	70
415311																														
415312	0.001	<0.005	<0.001	<0.5	10.85	<5	20	<0.5	<2	8.51	0.5	38	9	136	7.4	0.08	2.17	725	<1	1.85	69	80	10	0.15	6	222	0.68	472	<10	55
415313	0.006	<0.005	0.001	1	10.55	6	20	<0.5	<2	7.41	<0.5	17	8	3250	7.2	0.07	1.75	647	47	2.26	103	450	<2	0.52	<5	264	0.59	338	<10	64
415314	<0.001	<0.005	<0.001	<0.5	10.75	<5	20	<0.5	<2	8.76	<0.5	32	7	111	6.36	0.06	1.88	648	<1	1.83	57	70	<2	0.11	6	235	0.61	409	<10	49
415315	<0.001	<0.005	<0.001	<0.5	7.77	<5	460	1.6	<2	2.99	0.5	30	10	87	9.56	1.62	1.54	1250	3	2.24	11	3070	17	0.33	<5	320	0.96	54	<10	101
415316	<0.001	<0.005	<0.001	<0.5	7.25	<5	530	1.5	<2	2.15	0.7	17	7	16	6.19	1.4	0.99	759	<1	2.37	4	2710	18	0.09	<5	340	0.64	32	<10	81
415317	<0.001	<0.005	<0.001	<0.5	8.17	13	440	1.5	<2	2.12	<0.5	8	8	9	3.01	0.99	0.66	395	<1	3.52	5	1040	16	0.04	<5	495	0.3	31	<10	57
415318	<0.001	<0.005	<0.001	<0.5	6.08	6	150	1.1	<2	4.43	<0.5	66	14	104	20.2	1.18	3.01	2540	3	1.14	25	4220	9	1.07	9	134	2.27	139	<10	138
415319	<0.001	<0.005	<0.001	<0.5	6.29	<5	110	1	<2	4.73	<0.5	50	28	75	16.15	1.06	2.22	2060	2	1.76	13	9320	10	0.7	5	174	1.73	75	10	127
415320	<0.001	<0.005	<0.001	<0.5	7.82	<5	100	0.8	<2	4.61	<0.5	42	5	44	14.4	0.5	1.79	1890	<1	2.43	7	8090	17	0.35	10	193	1.59	38	<10	116
415350	<0.001	<0.005	<0.001	<0.5	9.22	<5	10	1.3	<2	9.05	<0.5	92	113	17	9.15	0.1	5.1	1290	2	1.12	160	500	8	1.21	<5	585	0.61	280	10	122
415351	<0.001	<0.005	<0.001	<0.5	8.05	<5	10	1.2	<2	9.05	<0.5	84	68	15	10.8	0.06	4.89	1340	<1	0.34	177	720	14	1.5	7	490	0.98	518	<10	132
415352	<0.001	<0.005	<0.001	<0.5	6.98	<5	60	0.5	<2	7.01	<0.5	76	14	349	15	0.5	4.37	1500	8	1.27	135	360	14	0.41	<5	212	1.49	1065	<10	119
415353	0.005	<0.005	0.011	<0.5	7.1	<5	50	1	<2	6.34	<0.5	77	7	558	14.25	0.63	4.78	1430	1	1.24	180	110	8	1.67	<5	222	1.45	921	<10	123
415354	0.002	<0.005	0.005	<0.5	6.73	<5	60	1.4	<2	6.62	<0.5	87	6	116	12.8	0.57	4.37	1500	2	1.39	116	260	<2	1	<5	279	1.37	865	<10	121
415355																														
415356	<0.001	<0.005	0.003	<0.5	11.3	<5	330	0.5	<2	4.91	<0.5	54	166	46	8.61	1.97	5.29	981	<1	0.85	148	70	3	0.73	<5	578	0.45	270	<10	124
415357	0.001	<0.005	<0.001	<0.5	6.95	<5	50	1	<2	7.32	<0.5	58	314	168	9.08	0.64	6.45	1570	<1	1.23	167	140	4	0.1	6	227	0.47	297	<10	101
415358	<0.001	<0.005	<0.001	<0.5	7.72	<5	50	<0.5	<2	7.65	<0.5	50	178	188	7.87	0.6	5.33	1320	<1	1.52	134	180	4	0.24	8	305	0.41	207	<10	82
415359	0.001	<0.005	<0.001	<0.5	8.17	<5	60	1.2	<2	7.55	<0.5	58	202	665	9.29	0.59	4.75	1270	<1	1.41	152	160	8	1.17	8	324	1.18	470	<10	86
415360	0.001	<0.005	<0.001	<0.5	7.96	<5	50	<0.5	<2	6.29	<0.5	28	104	75	5.91	0.43	3.35	922	<1	2.06	75	130	9	0.1	5	315	0.26	152	<10	54
415361	<0.001	<0.005	<0.001	<0.5	9.85	<5	110	0.5	<2	7.32	<0.5	40	127	160	7.68	0.83	4.47	1240	<1	2.17	113	520	9	0.07	<5	322	0.38	184	<10	80
415362	0.002	<0.005	0.001	<0.5	7.32	<5	50	0.5	<2	6.26	<0.5	32	106	1160	7.1	0.29	2.73	886	<1	1.63	94	180	3	0.59	<5	352	0.36	212	<10	55
415363	0.003	<0.005	0.002	<0.5	6.02	11	50	<0.5	<2	7.13	<0.5	63	719	698	12.1	0.38	5.34	1720	1	0.89	206	220	5	0.84	7	180	1.23	678	<10	101
415364	0.001	<0.005	<0.001	<0.5	8.9	<5	100	<0.5	<2	6.85	<0.5	45	185	223	9.06	0.74	4.46	1410	<1	1.53	121	210	10	0.3	<5	222	0.66	270	<10	86
415365	0.001	<0.005	<0.001	<0.5	8.24	<5	90	<0.5	<2	7.34	<0.5	52	204	166	9.85	0.64	5.08	1600	<1	1.23	125	180	7	0.24	9	171	0.6	302	10	90
415366	<0.001	<0.005	<0.001	<0.5	0.34	<5	10	<0.5	<2	0.04	<0.5	<1	1	3	0.07	0.11	0.03	14	<1	0.01	<1	40	<2	0.01	<5	5	0.02	2	<10	<2
415367	<0.001	<0.005	0.001	<0.5	11.1	5	130	0.5	<2	7.61	<0.5	23	36	33	5.28	0.82	1.43	634	<1	2.31	53	530	11	0.19	7	536	0.54	210	<10	41
415368	<0.001	<0.005	0.004	<0.5	10.1	<5	90	<0.5	<2	6.93	<0.5	38	117	113	7.03	0.7	3.71	1090	1	1.86	97	60	6	0.1	5	261	0.28	180	<10	65
415369	0.001	<0.005	0.003	<0.5	10.6	<5	100	<0.5	<2	7.18	<0.5	37	84	88	6.96	0.81	3.78	1060	<1	2.09	106	70	11	0.15	<5	309	0.26	178	<10	67
415370	0.002	<0.005	0.002	<0.5	7.9	<5	40	<0.5	<2	6.54	<0.5	55	208	261	9.26	0.52	4.99	1430	1	1.17	152	130	6	0.69	8	162	0.56	293	10	86

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
DESCRIPT	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
415371	<0.001	<0.005	<0.001	<0.5	9.27	<5	80	<0.5	<2	6.53	<0.5	41	106	68	7.6	0.67	3.95	1120	<1	1.76	103	70	11	0.15	7	249	0.32	202	10	76
415372	<0.001	<0.005	<0.001	<0.5	9.01	5	60	<0.5	<2	6.63	<0.5	49	156	102	9.45	0.57	4.49	1375	<1	1.52	134	60	4	0.2	<5	198	0.61	300	<10	76
415373	<0.001	<0.005	0.001	<0.5	10.8	<5	100	<0.5	<2	7.15	<0.5	36	79	99	6.06	0.78	3.02	888	<1	2.06	96	90	<2	0.2	5	303	0.24	139	<10	52
415374	0.001	<0.005	0.001	<0.5	7.03	6	80	<0.5	<2	4.64	<0.5	26	66	73	4.55	0.53	2.28	656	<1	1.2	63	60	3	0.19	7	170	0.26	123	<10	42
415375	0.001	<0.005	<0.001	<0.5	10.45	<5	130	<0.5	<2	7.24	0.5	38	120	131	7.3	0.83	3.64	1075	<1	1.84	104	80	18	0.33	<5	280	0.37	209	<10	73
415376	0.001	<0.005	0.001	<0.5	7.65	<5	150	<0.5	<2	5.9	<0.5	31	160	96	6.28	0.88	3.34	952	<1	1.22	95	40	7	0.15	<5	149	0.36	206	<10	54
415377	0.115	0.348	1.165	0.6	8.6	11	330	0.7	<2	8.15	<0.5	64	150	3930	9.23	0.47	4.11	1355	<1	1.78	282	1750	9	0.85	<5	681	0.57	314	<10	94
415378	<0.001	<0.005	0.001	<0.5	6.51	<5	20	<0.5	<2	6.89	<0.5	64	<1	104	14.3	0.25	4.07	1660	<1	1.35	55	120	<2	0.32	<5	138	1.39	746	<10	118
415379	<0.001	<0.005	<0.001	<0.5	6.34	<5	20	<0.5	<2	7.16	<0.5	69	<1	141	15.6	0.17	4.08	1670	<1	1.23	82	80	<2	0.4	<5	124	1.76	909	<10	124
415380	<0.001	<0.005	0.001	<0.5	5.94	<5	10	<0.5	<2	6.55	<0.5	75	<1	178	19.3	0.13	4.07	1950	<1	1.13	111	80	<2	0.44	<5	106	2.39	1350	<10	136
415381	<0.001	<0.005	<0.001	<0.5	6.48	<5	20	<0.5	<2	7.38	<0.5	73	2	285	15.7	0.2	4.06	1710	1	1.25	96	90	<2	0.43	<5	131	1.73	938	<10	120
415382	0.001	<0.005	0.001	<0.5	6.27	<5	40	0.6	<2	6.89	<0.5	129	1	343	17.15	0.23	3.74	1705	<1	1.28	155	100	<2	2.81	<5	135	1.5	730	<10	122
415383	<0.001	<0.005	<0.001	<0.5	6.55	5	20	<0.5	<2	7.6	<0.5	72	<1	121	14.95	0.21	3.99	1690	<1	1.29	73	140	2	0.38	<5	130	1.6	758	<10	123
415384	0.001	<0.005	<0.001	<0.5	6.3	<5	30	<0.5	<2	7.01	<0.5	71	<1	134	16.45	0.21	3.85	1835	<1	1.25	55	120	<2	0.44	6	127	1.94	875	<10	128
415385	<0.001	<0.005	<0.001	<0.5	6.46	7	30	<0.5	<2	7.48	<0.5	72	1	124	16.15	0.21	3.78	1865	<1	1.2	52	120	<2	0.42	<5	142	1.95	804	<10	127
415386	<0.001	<0.005	<0.001	<0.5	6.26	12	10	<0.5	<2	6.97	<0.5	62	7	96	15.8	0.1	3.5	2130	1	1.32	9	1500	3	0.4	<5	142	2.04	325	<10	141
415387	<0.001	<0.005	<0.001	<0.5	6.44	<5	10	<0.5	<2	6.56	<0.5	59	8	113	15.45	0.09	3.12	2050	1	1.39	16	680	<2	0.54	<5	148	2.08	369	<10	133
415388	<0.001	<0.005	<0.001	<0.5	0.33	<5	10	<0.5	<2	0.04	<0.5	<1	2	2	0.08	0.12	0.02	13	<1	0.01	<1	40	<2	0.01	<5	3	0.02	1	<10	<2
415389	<0.001	<0.005	<0.001	<0.5	5.91	<5	10	<0.5	<2	6.14	<0.5	54	5	96	13.45	0.08	2.71	1670	3	1.27	15	270	<2	0.29	<5	133	2.03	283	<10	114
415390	<0.001	<0.005	<0.001	<0.5	7.06	<5	20	<0.5	<2	6.23	<0.5	55	39	78	17.35	0.12	2.6	1910	<1	1.56	16	130	<2	0.42	12	159	3.57	374	<10	139
415391	<0.001	<0.005	<0.001	<0.5	6.3	<5	10	<0.5	<2	6.63	<0.5	55	17	100	14.5	0.11	3.3	2020	<1	1.32	17	180	<2	0.46	<5	138	2.12	232	<10	115
415392	<0.001	<0.005	<0.001	<0.5	6.66	<5	30	<0.5	<2	6.51	<0.5	54	11	87	14.7	0.18	3.38	1950	1	1.42	20	260	<2	0.44	<5	134	1.84	207	<10	126
415393	<0.001	<0.005	<0.001	<0.5	7.05	<5	20	1.1	<2	6.04	<0.5	53	18	110	16.35	0.29	3	2050	3	1.55	27	930	5	0.77	5	151	2.43	259	10	142
415394	0.003	<0.005	<0.001	<0.5	7.08	<5	20	<0.5	<2	7.35	<0.5	48	18	167	17.85	0.21	2.78	2380	13	1.58	21	8990	<2	0.91	5	143	1.96	121	<10	147
415395	0.01	<0.005	<0.001	<0.5	7.54	<5	30	0.5	<2	6.02	<0.5	32	82	74	16.7	0.11	1.89	2140	<1	1.65	34	2040	<2	0.45	<5	208	2.56	260	<10	142
415396	0.002	<0.005	0.001	<0.5	7.3	<5	20	<0.5	<2	6.7	<0.5	31	169	93	15.45	0.13	2.04	2120	7	1.58	32	4710	<2	0.59	7	191	1.97	169	<10	129
415397	<0.001	<0.005	<0.001	<0.5	6.76	8	30	<0.5	<2	6.42	<0.5	37	120	76	17.5	0.15	2.33	2560	2	1.47	29	2640	<2	0.47	<5	174	2.36	232	10	168
415398	0.001	<0.005	<0.001	<0.5	6.5	<5	400	<0.5	<2	6.21	<0.5	59	12	196	12.15	0.56	3.5	1350	<1	1.66	93	90	<2	0.32	5	210	1.16	610	<10	93
415399	0.111	0.328	1.125	0.7	8.39	<5	320	0.7	<2	8.05	<0.5	63	150	3840	9.15	0.45	4.1	1340	<1	1.74	267	1720	13	0.82	9	665	0.57	315	<10	94
415400	0.001	<0.005	<0.001	<0.5	5.44	<5	30	<0.5	<2	6.51	<0.5	61	19	237	13.8	0.35	3.58	1340	<1	1.12	114	50	<2	0.35	<5	99	1.53	879	<10	92
415401	<0.001	<0.005	<0.001	<0.5	6.21	<5	40	<0.5	<2	6.97	<0.5	70	22	271	14.65	0.42	3.86	1440	<1	1.28	123	80	<2	0.32	12	131	1.56	952	<10	100
415402	<0.001	<0.005	<0.001	<0.5	8.19	<5	60	1.7	<2	7.79	<0.5	47	97	55	9.08	0.4	4.48	1310	<1	1.72	96	160	<2	0.07	<5	204	0.6	344	<10	82
415403	0.001	<0.005	<0.001	<0.5	8.76	<5	130	0.6	<2	6.89	<0.5	40	73	182	8.07	0.47	3.96	1195	6	2.15	80	990	3	0.51	7	310	0.4	147	<10	69
415404	<0.001	<0.005	<0.001	<0.5	7.09	<5	30	0.8	<2	7.23	<0.5	37	25	69	14.85	0.22	2.5	2110	1	1.65	28	9870	<2	0.31	<5	174	1.79	161	<10	133
415405	0.001	<0.005	0.003	<0.5	8.39	<5	240	2.1	<2	5.38	<0.5	50	37	240	11.05	0.47	1.82	1060	2	2.36	47	3040	<2	1.01	5	402	1.15	269	<10	120
415406	<0.001	<0.005	<0.001	<0.5	6.37	5	140	1.1	<2	6.45	<0.5	43	14	55	15.25	0.81	2.87	2250	<1	1.16	24	6930	8	0.26	10	122	1.71	157	<10	166
415407	<0.001	<0.005	<0.001	<0.5	7.79	7	300	0.8	<2	5.06	<0.5	33	93	98	11.9	0.71	1.94	1700	8	2.16	22	2910	4	0.48	<5	345	1.47	136	<10	134
415408	<0.001	<0.005	<0.001	<0.5	9.41	<5	110	0.5	<2	6.51	<0.5	19	22	49	8.02	0.37	1.56	1270	1	2.85	13	1570	2	0.31	6	623	0.83	69	<10	99
415409	<0.001	<0.005	<0.001	<0.5	8.69	5	230	<0.5	<2	5.67	<0.5	23	26	25	8.56	0.84	1.49	1370	5	2.68	10	1420	2	0.24	7	332	0.83	58	<10	98
415410	<0.001	<0.005	<0.001	<0.5	0.34	<5	20	<0.5	<2	0.03	<0.5	<1	1	3	0.05	0.13	0.01	8	<1	0.01	<1	40	3	0.01	<5	4	0.02	1	<10	<2
415411	<0.001	<0.005	<0.001	<0.5	5.87	<5	140	<0.5	4	5.57	0.5	29	69	122	15.3	0.44	2.37	2150	<1	1.42	22	5190	<2	0.43	12	266	2.1	167	<10	207
415412	<0.001	<0.005	<0.001	<0.5	6.84	<5	130	<0.5	<2	7.13	<0.5	54	173	262	10.85	0.76	4.56	1365	<1	1.37	154	130	<2	0.28	6	153	0.66	597	<10	83
415413	<0.001	<0.005	0.001	<0.5	8.55	<5	100	<0.5	<2	7.64	<0.5	51	119	125	10.15	0.65	4.61	1355	<1	2.22	118	240	<2	0.16	10	232	0.7	478	10	107
415414	<0.001	<0.005	<0.001	<0.5	7.26	8	90	<0.5	<2	7.36	<0.5	56	185	175	11.75	0.67	4.69	1545	<1	1.67	145	100	2	0.2	11	172	0.99	651	10	105

TM06112731 - Finalized
CLIENT : "NORSHI - Northern Shield Resources Inc."
# of SAMPLES : 51
DATE RECEIVED : 2006-11-03 DATE FINALIZED : 2006-11-26
PROJECT : "HL"
CERTIFICATE COMMENTS : ""
PO NUMBER : " "

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
DESCRIPT	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
315426	<0.001	<0.005	0.003	<0.5	8.96	5	100	0.6	<2	4.2	<0.5	111	1090	83	26	0.46	1.16	951	<1	0.81	202	40	12	0.18	14	235	3.42	2890	<10	158
315427	<0.001	0.007	0.007	<0.5	10.4	<5	70	0.6	<2	5.45	<0.5	94	643	146	19.05	0.41	2.54	919	<1	1.28	198	40	6	0.22	<5	231	2.07	1770	<10	117
315428	0.004	<0.005	<0.001	<0.5	11.8	<5	30	<0.5	<2	6.58	<0.5	76	481	63	16.5	0.19	1.5	756	<1	1.62	145	50	<2	0.09	<5	270	1.91	1620	<10	105
315429	<0.001	<0.005	0.003	<0.5	8.36	<5	40	0.5	<2	4.61	<0.5	107	1105	98	24.9	0.13	1.27	995	<1	0.98	201	50	4	0.1	13	178	3.21	2770	<10	161
315430	<0.001	<0.005	0.002	<0.5	10.85	<5	50	<0.5	<2	5.16	<0.5	79	580	85	18.95	0.23	1.35	808	<1	1.25	156	60	10	0.02	<5	213	2.45	2060	<10	106
315431	0.009	<0.005	0.004	<0.5	11	<5	40	<0.5	<2	7.25	<0.5	50	208	94	9.13	0.21	1.86	633	<1	1.77	99	50	7	0.1	<5	296	0.84	662	<10	56
315432	<0.001	<0.005	0.002	<0.5	10.3	<5	30	<0.5	<2	6.72	<0.5	66	163	72	10.25	0.21	2.96	803	<1	1.62	127	60	8	0.09	5	224	0.76	619	<10	76
315433	<0.001	<0.005	<0.001	<0.5	10.55	6	40	<0.5	<2	7.69	0.7	39	64	70	6.72	0.32	2	643	<1	2.04	72	60	18	0.13	6	282	0.46	297	<10	54
315434	<0.001	<0.005	0.001	<0.5	10.1	<5	20	<0.5	<2	6.04	<0.5	82	252	70	14.4	0.16	3.34	987	1	1.34	159	50	9	0.06	<5	187	1.26	1005	<10	97
315435	<0.001	<0.005	0.001	<0.5	7.17	<5	20	0.5	<2	3.7	<0.5	124	1255	44	33.3	0.09	1.44	1130	<1	0.75	244	30	3	0.06	9	189	3.83	3270	10	171
315436	0.116	0.345	1.175	0.9	8.32	5	330	0.6	<2	7.72	<0.5	63	150	3870	9.14	0.44	4.03	1340	<1	1.73	276	1770	12	0.84	<5	678	0.57	313	<10	97
315437	<0.001	<0.005	0.003	<0.5	11.1	<5	40	<0.5	<2	6.32	<0.5	59	299	94	10.95	0.18	1.97	668	<1	1.82	125	100	7	0.1	<5	274	1.03	802	<10	73
315438	<0.001	<0.005	0.002	<0.5	10.6	8	40	<0.5	<2	6.26	<0.5	76	278	251	12.6	0.18	2.56	810	<1	1.54	178	60	10	0.2	<5	263	1.16	910	<10	85
315439	0.003	<0.005	0.002	<0.5	9.54	<5	60	<0.5	<2	5.58	<0.5	90	246	175	15	0.3	3.47	982	<1	1.3	211	60	13	0.16	<5	232	1.32	1095	<10	91
315440	<0.001	<0.005	0.001	<0.5	9.47	<5	30	<0.5	<2	5.72	<0.5	82	577	36	14.5	0.19	3.12	907	<1	1.39	181	40	8	0.04	<5	200	1.29	1090	10	91
315441	<0.001	<0.005	0.003	<0.5	10.15	<5	40	<0.5	<2	5.98	<0.5	84	1125	72	18.9	0.16	1.51	874	<1	1.36	184	70	3	0.13	<5	218	2.2	1865	<10	119
315442	0.001	<0.005	0.013	<0.5	11.6	5	30	<0.5	<2	6.44	<0.5	78	382	530	16.1	0.15	1.51	747	1	1.52	300	50	11	0.44	5	245	1.73	1440	<10	95
315443	0.002	<0.005	0.003	<0.5	11.2	7	10	<0.5	<2	7.52	<0.5	40	133	155	8.7	0.07	0.96	524	<1	1.89	117	50	6	0.15	<5	264	0.83	663	<10	53
315444	0.001	<0.005	0.001	<0.5	11.95	<5	10	<0.5	<2	6.96	<0.5	55	272	525	12.9	0.06	0.78	569	<1	1.74	205	50	10	0.33	<5	251	1.38	1175	<10	70
315445	<0.001	<0.005	0.001	<0.5	11.9	<5	10	<0.5	<2	6.54	<0.5	54	600	53	14.5	0.07	0.62	616	19	1.62	123	40	9	0.08	<5	241	1.69	1435	10	78
315446	<0.001	<0.005	0.001	<0.5	11.4	7	30	<0.5	<2	6.33	<0.5	78	1060	56	19.9	0.15	1.04	806	<1	1.38	167	40	8	0.1	<5	232	2.44	2080	<10	122
315447																														
315448	0.001	0.015	0.001	<0.5	10.5	<5	10	<0.5	<2	6.28	<0.5	83	135	281	15.95	0.08	2.47	901	<1	1.5	237	50	5	0.21	<5	225	1.53	1290	<10	105
315449	0.003	0.005	0.001	<0.5	11.85	8	20	<0.5	<2	7.02	<0.5	65	229	322	14.4	0.07	1.3	726	<1	1.71	188	60	9	0.25	<5	258	1.56	1280	<10	107
315450	0.002	<0.005	0.002	<0.5	10.5	<5	40	<0.5	<2	6.62	<0.5	58	90	209	11.7	0.12	1.79	723	<1	1.7	151	80	5	0.22	<5	248	1.16	908	<10	73
315451	<0.001	<0.005	<0.001	<0.5	10.2	<5	20	<0.5	<2	6.73	<0.5	62	45	126	10.5	0.07	2.33	761	<1	1.68	140	50	8	0.13	<5	245	0.89	667	<10	70
315452	<0.001	<0.005	<0.001	<0.5	11.1	<5	60	1.2	<2	7.34	<0.5	35	27	153	6.55	0.23	1.26	495	5	2.25	95	60	10	0.15	8	318	0.52	430	10	46
315453	<0.001	0.017	<0.001	<0.5	10.5	<5	20	<0.5	<2	6.05	<0.5	76	138	238	15.9	0.1	1.83	796	<1	1.37	191	50	6	0.15	<5	239	1.68	1430	<10	90
315454	<0.001	<0.005	0.001	<0.5	11.35	<5	100	<0.5	<2	7.37	0.6	40	216	62	8.36	0.25	1.2	517	<1	1.84	118	50	11	0.07	<5	348	0.72	630	<10	53
315455	<0.001	<0.005	<0.001	<0.5	10.95	<5	30	<0.5	<2	6.27	<0.5	69	362	152	13.15	0.14	2.17	753	1	1.64	219	50	<2	0.16	8	285	1.18	1050	<10	83
315456	0.003	0.009	<0.001	<0.5	10.1	<5	30	<0.5	<2	6.53	<0.5	77	384	38	14.25	0.17	2.76	926	<1	1.56	206	60	2	0.11	<5	220	1.27	1095	<10	94
315457	<0.001	<0.005	0.002	<0.5	12	<5	40	<0.5	<2	7.36	0.7	47	467	51	11.75	0.17	0.72	564	<1	1.81	125	50	7	0.15	<5	284	1.33	1090	<10	72
315458	0.106	0.317	1.22	0.8	7.54	6	300	0.6	<2	6.85	<0.5	56	132	3400	8.11	0.38	3.55	1185	<1	1.5	252	1550	15	0.75	<5	588	0.5	275	<10	88
315459	<0.001	<0.005	0.002	<0.5	6.89	8	10	0.6	<2	3.7	<0.5	149	1350	369	38.1	0.03	1.12	1335	<1	0.99	476	60	<2	0.4	<5	200	4.22	3800	<10	214
315460	<0.001	<0.005	0.001	<0.5	11.95	5	30	<0.5	<2	6.94	<0.5	61	531	134	14.95	0.12	0.72	661	<1	1.48	178	70	11	0.16	<5	250	1.72	1480	<10	86
315461	0.001	<0.005	0.003	<0.5	11.45	13	40	<0.5	<2	6.22	<0.5	98	913	380	17.85	0.14	0.9	716	<1	1.47	288	50	11	1.24	<5	263	1.89	1705	<10	100
315462	0.002	0.017	0.003	<0.5	9.52	<5	20	<0.5	<2	5.64	<0.5	84	1175	215	19.05	0.06	0.96	755	<1	1.13	240	40	12	0.23	<5	240	2.18	2040	<10	121
315463	0.007	0.006	0.015	<0.5	5.53	<5	20	<0.5	<2	3.89	<0.5	128	519	688	29.1	0.12	2.3	1215	<1	0.65	485	40	8	0.33	<5	173	2.71	2550	<10	152
315464	0.005	<0.005	0.002	<0.5	4.65	<5	10	<0.5	<2	3.49	<0.5	144	339	449	20.9	0.08	5.63	1450	<1	0.43	504	60	12	0.2	<5	41	1.42	1330	<10	126

315465	0.004	<0.005	0.003	<0.5	10.15	<5	20	<0.5	<2	6.5	<0.5	73	374	40	11.85	0.15	3.6	942	<1	1.54	221	80	8	0.03	6	273	0.79	676	<10	76
315466	<0.001	<0.005	<0.001	<0.5	11.4	<5	220	0.8	<2	7.01	<0.5	28	372	92	6.9	0.75	0.41	480	<1	2.13	64	220	15	0.53	<5	351	0.66	559	<10	29
315467	<0.001	<0.005	0.001	<0.5	6.78	<5	50	0.5	<2	3.75	<0.5	120	2690	153	31.7	0.43	0.9	1025	<1	0.75	397	40	2	0.17	9	178	3.38	3090	<10	176
315468	<0.001	<0.005	0.001	<0.5	9.23	<5	70	0.6	<2	5.35	<0.5	87	1935	181	22.4	0.36	1.05	841	<1	1.24	309	240	6	0.21	<5	414	2.63	2350	<10	116
315469	<0.001	<0.005	<0.001	<0.5	0.35	<5	20	<0.5	<2	0.03	<0.5	<1	6	3	0.08	0.12	0.02	10	<1	0.01	3	40	2	0.01	<5	6	0.02	5	<10	<2
315470	<0.001	<0.005	<0.001	<0.5	11.5	9	230	<0.5	<2	6.83	<0.5	37	945	64	12.1	0.51	0.83	654	<1	1.62	131	200	12	0.13	<5	638	1.37	1190	<10	55
315471	<0.001	<0.005	<0.001	<0.5	11.75	<5	20	<0.5	<2	7.32	<0.5	47	755	117	13	0.13	0.49	580	<1	1.73	164	50	11	0.04	<5	271	1.43	1220	<10	63
315472	0.002	<0.005	0.002	<0.5	10.45	<5	30	0.5	<2	6.17	<0.5	56	343	402	13.85	0.14	0.54	576	<1	1.18	251	50	14	0.24	<5	222	1.5	1345	<10	73
315473	0.003	0.008	0.001	<0.5	11.35	10	50	<0.5	<2	6.35	<0.5	86	1460	307	20.5	0.16	0.97	799	<1	1.29	342	100	11	0.22	<5	256	2.33	2070	<10	115
315474	0.009	<0.005	<0.001	<0.5	9.39	7	30	<0.5	<2	6.23	<0.5	81	567	504	11.65	0.2	3.71	985	<1	1.17	346	60	12	0.24	<5	213	0.74	602	<10	83
315475	0.002	<0.005	<0.001	<0.5	10.45	<5	20	<0.5	<2	7.73	0.6	48	297	233	7.24	0.08	2.53	709	<1	1.9	200	60	11	0.14	<5	285	0.34	254	<10	51
315476	0.001	<0.005	<0.001	<0.5	8.63	<5	10	<0.5	<2	8.9	<0.5	58	228	66	8.36	0.18	5.24	1165	<1	1	181	40	11	0.08	<5	173	0.25	234	<10	57

TM06112739 - Finalized
CLIENT : "NORSHI - Northern Shield Resources Inc."
# of SAMPLES : 100
DATE RECEIVED : 2006-11-10 DATE FINALIZED : 2006-12-01
PROJECT : " "
CERTIFICATE COMMENTS : ""
PO NUMBER : " "

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
415415	0.001	<0.005	<0.001	<0.5	9.57	6	30	<0.5	<2	8.12	1.1	34	22	183	6.53	0.25	2.39	824	<1	1.82	60	70	6	0.2	<5	244	0.56	359	10	56
415416	0.002	<0.005	<0.001	<0.5	9.98	12	20	<0.5	<2	8.61	<0.5	38	11	162	6.92	0.13	1.9	678	<1	1.73	63	60	<2	0.11	<5	240	0.66	441	<10	44
415417	0.002	<0.005	<0.001	<0.5	9.51	<5	10	<0.5	<2	9.04	<0.5	33	9	140	6.34	0.06	2.29	730	<1	1.36	51	60	2	0.08	<5	226	0.56	370	<10	43
415418	0.001	<0.005	<0.001	<0.5	11	<5	10	<0.5	<2	8.41	<0.5	28	11	117	6.98	0.07	1.69	649	1	1.6	49	70	3	0.11	<5	257	0.66	415	10	43
415419	0.001	<0.005	<0.001	<0.5	11.45	<5	10	<0.5	<2	8.32	<0.5	40	7	159	7.7	0.03	2.23	729	1	1.69	76	90	<2	0.12	<5	251	0.64	420	10	56
415420	0.001	<0.005	0.001	<0.5	10.3	<5	10	<0.5	<2	8.26	0.6	37	8	96	7.45	0.01	1.94	704	<1	1.78	68	70	<2	0.08	<5	261	0.61	397	<10	50
415421	0.132	0.314	1.145	0.9	8.81	<5	340	0.7	2	7.98	<0.5	65	145	4020	9.15	0.46	4.06	1320	2	1.85	273	1800	12	0.85	<5	719	0.55	312	<10	95
415422	0.001	<0.005	<0.001	<0.5	10.95	<5	10	<0.5	<2	7.46	<0.5	50	11	207	10.65	0.02	1.96	767	1	1.72	109	140	<2	0.17	5	239	1.02	684	<10	73
415423	0.001	<0.005	<0.001	<0.5	12.55	11	10	<0.5	<2	7.89	<0.5	40	9	139	9.27	0.03	1.59	660	<1	1.95	86	100	<2	0.12	5	288	0.85	574	<10	58
415424	0.005	<0.005	<0.001	<0.5	11.9	<5	10	<0.5	<2	7.46	<0.5	53	17	253	11.95	0.04	1.93	793	2	1.68	128	90	<2	0.18	7	255	1.21	827	<10	77
415425	<0.001	<0.005	<0.001	<0.5	11.9	<5	10	<0.5	<2	7.67	<0.5	45	13	177	11.25	0.03	1.73	752	<1	1.71	102	70	<2	0.15	12	258	1.15	766	<10	66
415426	0.001	<0.005	<0.001	<0.5	12.35	<5	10	<0.5	<2	7.72	<0.5	46	10	170	9.62	0.04	1.59	650	2	1.88	89	80	<2	0.14	<5	267	1.04	678	<10	67
415427	0.001	<0.005	0.001	<0.5	10.95	<5	10	<0.5	<2	7.48	<0.5	46	7	111	9.53	0.03	1.86	820	1	1.82	86	100	<2	0.1	5	239	0.94	635	<10	73
415428	0.003	<0.005	<0.001	<0.5	9.34	<5	10	<0.5	<2	5.82	<0.5	58	38	271	14.2	0.06	2.18	1045	1	1.55	108	530	<2	0.23	<5	148	1.43	725	<10	93
415429	<0.001	<0.005	<0.001	<0.5	11.05	<5	20	<0.5	<2	7.31	0.5	42	12	110	9.24	0.04	1.8	800	1	1.88	82	100	<2	0.11	<5	261	0.79	494	<10	64
415430	0.003	<0.005	<0.001	<0.5	11.1	<5	10	<0.5	<2	7.08	<0.5	52	13	169	10.9	0.04	2.01	828	1	1.83	100	90	<2	0.13	6	251	1.03	655	<10	74
415431	0.001	<0.005	<0.001	<0.5	12.1	<5	20	<0.5	<2	7.02	<0.5	50	13	148	11.55	0.05	2.02	789	1	1.83	107	80	<2	0.13	8	263	1.1	709	<10	76
415432	<0.001	<0.005	<0.001	<0.5	0.37	<5	10	<0.5	<2	0.05	<0.5	1	3	4	0.09	0.11	0.02	11	<1	0.02	2	40	<2	0.01	<5	6	0.02	5	<10	<2
415433	<0.001	<0.005	<0.001	<0.5	12.2	<5	20	<0.5	<2	7.2	0.9	51	14	150	10.7	0.04	1.64	742	1	1.92	108	100	2	0.14	<5	273	1.03	634	10	69
415434	0.001	<0.005	<0.001	<0.5	11.65	<5	20	<0.5	<2	7.4	0.6	42	13	138	8.81	0.03	1.55	659	1	1.97	89	130	<2	0.13	<5	261	0.79	480	<10	60
415435	<0.001	<0.005	<0.001	<0.5	11.75	<5	20	<0.5	<2	7.74	<0.5	41	12	114	8.15	0.03	1.59	679	1	2.08	82	90	<2	0.1	5	275	0.66	392	<10	57
415436	<0.001	<0.005	<0.001	<0.5	11.45	<5	20	<0.5	<2	6.73	<0.5	52	15	255	11.4	0.05	1.81	740	1	1.7	133	70	3	0.18	<5	231	1.16	744	<10	74
415437	<0.001	<0.005	<0.001	<0.5	9.59	<5	30	<0.5	<2	5.35	<0.5	71	28	430	16.4	0.11	2.12	903	3	1.32	197	80	2	0.29	9	218	1.65	1215	10	100
415438	0.001	<0.005	<0.001	<0.5	9.07	<5	10	<0.5	<2	5.2	<0.5	80	29	426	18.35	0.06	2.53	1050	2	1.18	215	80	<2	0.24	6	177	1.95	1425	<10	111
415439	0.001	<0.005	<0.001	<0.5	7.02	<5	10	<0.5	<2	4.86	<0.5	91	36	506	19.55	0.03	2.59	1090	1	1.03	271	100	2	0.31	10	157	2.17	1670	10	130
415440	0.001	<0.005	<0.001	<0.5	7.48	<5	10	1.2	<2	4.91	<0.5	90	64	562	19.95	0.06	2.67	1355	2	1.27	251	450	<2	0.42	12	133	2.25	1590	<10	123
415441	0.001	<0.005	<0.001	<0.5	7.27	<5	10	<0.5	<2	4.61	<0.5	112	73	671	23.5	0.04	2.73	1340	3	0.86	314	60	<2	0.39	11	124	2.75	2090	<10	144
415442	0.003	<0.005	0.001	<0.5	9.05	<5	10	<0.5	<2	5.63	<0.5	92	22	883	19.2	0.02	2.16	1115	2	1.25	320	80	<2	0.5	5	253	2.16	1695	<10	118
415443	<0.001	<0.005	<0.001	<0.5	0.3	<5	10	<0.5	<2	0.03	<0.5	<1	2	3	0.06	0.1	0.01	8	<1	0.01	2	40	<2	0.01	<5	5	0.02	4	<10	<2
415444	<0.001	<0.005	<0.001	<0.5	7.56	<5	10	<0.5	<2	5.08	<0.5	105	23	351	23.6	0.05	2.77	1670	2	0.85	265	30	<2	0.25	11	101	2.83	2210	<10	123
415445	<0.001	<0.005	<0.001	<0.5	7.5	<5	10	<0.5	<2	5.15	<0.5	41	46	160	10.95	0.08	2.36	1300	1	1.78	67	980	<2	0.22	<5	155	1.06	289	<10	89
415446	<0.001	<0.005	<0.001	<0.5	7.72	<5	20	0.5	<2	5.91	<0.5	37	45	85	11.45	0.09	2.36	1620	1	1.48	49	980	<2	0.16	6	121	1.08	247	<10	110
415447	<0.001	<0.005	<0.001	<0.5	7.62	<5	20	0.6	2	5.67	<0.5	33	46	70	11.25	0.11	2.33	1640	1	1.49	41	960	2	0.23	<5	114	1.03	205	<10	115
415448	<0.001	<0.005	<0.001	<0.5	7.77	<5	20	0.6	<2	5.7	<0.5	33	43	86	11.2	0.1	2.31	1610	1	1.55	44	960	3	0.13	<5	114	1.03	210	<10	112
415449	0.001	<0.005	<0.001	<0.5	10.9	<5	20	0.8	<2	7.55	<0.5	50	39	199	8.4	0.04	2.67	881	1	1.93	140	90	4	0.15	<5	262	0.63	430	<10	78
415450	<0.001	<0.005	<0.001	<0.5	9.95	<5	20	2	2	5.9	<0.5	63	44	17	10.35	0.11	4.23	1060	<1	1.77	149	70	<2	0.03	<5	171	0.53	381	<10	92
415451	<0.001	<0.005	<0.001	<0.5	9.6	<5	10	2.3	2	6.48	0.6	59	76	242	10	0.07	3.1	988	<1	1.47	176	40	<2	0.27	<5	213	0.68	530	<10	79
415452	<0.001	<0.005	0.001	<0.5	11.15	<5	20	<0.5	<2	6.84	<0.5	42	98	116	8.69	0.06	1.89	594	1	1.69	123	70	<2	0.09	<5	236	0.72	519	10	59
415453	<0.001	<0.005	<0.001	<0.5	12	<5	30	<0.5	<2	7.15	1.4	39	137	40	8.6	0.04	1.07	542	1	1.92	94	70	<2	0.05	<5	296	0.92	683	<10	60

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
415454	0.113	0.313	1.19	0.6	8.58	<5	330	0.7	<2	7.9	<0.5	64	143	3910	9.02	0.45	4	1305	2	1.79	274	1760	17	0.78	<5	702	0.54	303	<10	96
415455	<0.001	<0.005	0.001	<0.5	12.85	<5	30	<0.5	<2	7.29	<0.5	51	227	67	10.95	0.04	1.32	580	<1	1.86	112	70	<2	0.1	5	266	1.24	928	<10	63
415456	0.001	<0.005	<0.001	<0.5	10.75	<5	30	<0.5	<2	7.61	<0.5	35	145	113	6.24	0.02	1.69	505	<1	1.83	85	50	<2	0.09	<5	298	0.83	621	<10	54
415457	<0.001	<0.005	<0.001	<0.5	10.65	<5	20	<0.5	<2	6.14	<0.5	74	306	186	15.6	0.08	2.54	921	2	1.43	190	80	<2	0.28	6	176	1.69	1260	<10	98
415458	0.001	<0.005	<0.001	<0.5	8.42	<5	10	<0.5	<2	8.47	<0.5	71	43	439	13.7	0.09	4.17	1255	1	0.88	188	50	<2	0.23	<5	122	1.25	961	<10	95
415459	0.001	<0.005	<0.001	<0.5	11	9	10	<0.5	<2	7.45	<0.5	53	150	182	9.66	0.04	2.91	851	1	1.57	147	90	<2	0.11	<5	259	0.74	517	<10	66
415460	0.002	<0.005	0.001	<0.5	9.91	<5	10	<0.5	<2	6.48	<0.5	81	316	360	14.95	0.06	4.07	1110	1	1.21	241	80	<2	0.2	7	168	1.32	920	<10	92
415461	0.001	<0.005	0.001	<0.5	11.4	<5	10	<0.5	<2	7.52	0.5	56	275	110	10.15	0.05	2.64	789	2	1.55	154	70	<2	0.07	<5	244	0.9	652	<10	66
415462	<0.001	<0.005	<0.001	<0.5	11.8	<5	20	<0.5	<2	7.89	0.5	33	144	44	5.87	0.07	1.75	528	<1	1.9	98	60	<2	0.03	<5	317	0.38	271	<10	42
415463	0.001	<0.005	<0.001	<0.5	11.4	<5	20	<0.5	<2	6.63	0.5	53	212	98	8.51	0.11	3.04	737	1	1.64	145	50	<2	0.06	<5	298	0.57	401	<10	59
415464	0.001	<0.005	0.001	<0.5	8.35	<5	10	2.3	<2	5.21	<0.5	86	501	240	14.85	0.16	4.67	1195	2	1.03	260	60	<2	0.21	7	77	1.06	760	<10	103
415465	<0.001	<0.005	<0.001	<0.5	0.33	5	10	<0.5	<2	0.04	<0.5	<1	3	3	0.06	0.11	0.02	7	<1	0.01	1	60	2	0.01	<5	5	0.02	3	<10	<2
415466	<0.001	<0.005	<0.001	<0.5	11.8	<5	40	<0.5	<2	7.37	<0.5	46	824	100	9.02	0.14	1.84	654	1	1.98	91	70	<2	0.18	<5	371	0.91	665	<10	69
415467	<0.001	<0.005	<0.001	<0.5	11.2	<5	30	<0.5	<2	7.87	<0.5	50	183	96	8.63	0.14	2.91	849	1	1.39	112	90	<2	0.11	8	341	0.52	370	<10	65
415468	0.001	<0.005	0.001	<0.5	4.96	5	40	1.9	2	7.65	<0.5	88	408	288	13.4	0.1	8.11	1530	1	0.63	270	830	6	0.32	<5	178	1.02	716	20	102
415469	0.001	<0.005	0.002	<0.5	5.46	<5	30	3	10	7.4	<0.5	58	649	77	8.6	0.11	8.88	1230	20	0.58	302	1160	10	0.03	<5	206	0.57	273	<10	96
415470	0.001	<0.005	<0.001	2.3	1.58	<5	<10	<0.5	6	4.19	<0.5	129	295	318	19.35	<0.01	7.95	1610	1	0.05	281	80	23	0.36	<5	11	1.28	924	<10	93
415471	<0.001	<0.005	0.001	<0.5	8.7	<5	20	0.6	<2	6.01	<0.5	83	86	130	11.75	0.11	5.54	1465	2	0.81	170	80	<2	0.15	<5	277	0.57	397	<10	205
415472	0.001	<0.005	0.002	<0.5	8.53	<5	10	<0.5	<2	5.97	<0.5	94	51	450	13.35	0.12	5.73	1435	1	0.83	256	80	2	0.53	7	137	0.71	461	<10	89
415473	<0.001	<0.005	0.001	<0.5	11.15	<5	30	<0.5	<2	7.36	0.7	45	8	48	6.44	0.12	3.19	775	2	1.74	93	90	<2	0.02	<5	343	0.11	57	<10	51
415474	0.001	<0.005	0.001	<0.5	11.1	<5	30	<0.5	<2	7.26	0.9	43	7	69	5.9	0.12	2.77	718	<1	1.86	87	80	7	0.03	5	368	0.1	52	<10	45
415475	0.003	<0.005	0.003	<0.5	7.47	10	20	<0.5	4	5.26	<0.5	94	6	473	12	0.08	6.3	1365	1	0.87	252	210	<2	0.32	<5	154	0.12	78	<10	101
415476	0.117	0.345	1.205	0.8	8.63	<5	360	0.7	<2	7.95	<0.5	65	144	3920	9.03	0.45	4.03	1310	1	1.8	268	1770	9	0.73	6	703	0.54	306	<10	94
415477	0.002	<0.005	0.002	<0.5	3.42	<5	30	<0.5	<2	4.93	<0.5	134	43	856	16.95	0.02	8.91	1960	1	0.19	432	60	<2	0.67	5	6	0.71	502	<10	114
415478	0.001	<0.005	0.001	<0.5	4.82	<5	30	<0.5	2	8.01	<0.5	82	22	345	12.3	0.06	7.43	1700	1	0.47	246	400	<2	0.33	<5	70	0.51	381	<10	88
415479	0.001	<0.005	0.001	<0.5	10.4	5	90	<0.5	<2	7.8	<0.5	17	4	73	2.81	0.26	1.11	411	1	2.39	58	50	<2	0.02	<5	471	0.06	29	<10	23
415480	0.001	<0.005	<0.001	<0.5	11.4	<5	40	<0.5	<2	7.13	<0.5	45	18	283	7.56	0.14	1.97	672	1	2.02	132	60	<2	0.31	5	313	0.55	334	<10	49
415481	0.001	<0.005	0.001	<0.5	11.65	<5	20	<0.5	<2	6.95	<0.5	43	23	356	10.4	0.04	1.23	640	1	1.77	151	60	<2	0.24	5	303	1.03	769	<10	57
415482	0.001	<0.005	0.002	<0.5	11.5	<5	50	<0.5	<2	7.75	<0.5	48	13	479	11.8	0.07	1.58	812	2	0.95	188	60	<2	0.3	<5	318	1.1	815	<10	67
415483	0.003	<0.005	0.001	<0.5	4.85	<5	20	<0.5	<2	5.19	<0.5	132	6	1360	24.8	0.07	4.44	1575	2	0.53	431	40	<2	0.74	11	43	2.87	2100	<10	159
415484	0.002	<0.005	<0.001	<0.5	6.48	<5	10	<0.5	<2	7.43	<0.5	92	30	681	17.1	0.08	4.49	1360	1	0.7	255	40	<2	0.48	<5	82	1.75	1305	<10	110
415485	0.002	<0.005	<0.001	<0.5	8.8	<5	10	<0.5	<2	8.11	<0.5	51	4	210	10.8	0.07	3.15	1065	1	1.32	123	40	<2	0.13	5	176	0.93	743	<10	76
415486	0.002	<0.005	<0.001	<0.5	8.35	<5	10	<0.5	<2	7.69	<0.5	58	5	303	13.15	0.05	3.79	1195	1	1.13	146	50	<2	0.25	<5	146	1.26	924	<10	78
415487	<0.001	<0.005	<0.001	<0.5	0.36	<5	10	<0.5	<2	0.07	<0.5	1	5	5	0.12	0.11	0.04	17	<1	0.01	2	40	<2	0.01	<5	5	0.02	7	<10	<2
415488	<0.001	<0.005	<0.001	<0.5	10.5	<5	10	<0.5	<2	8.25	<0.5	43	6	170	9.34	0.03	2.55	841	1	1.45	97	60	<2	0.14	5	222	0.86	637	<10	53
415489	0.001	<0.005	<0.001	<0.5	8.38	<5	20	<0.5	<2	8.15	<0.5	61	5	303	13.15	0.04	4.02	1195	1	1.08	149	40	<2	0.18	5	155	1.29	971	<10	84
415490	<0.001	<0.005	<0.001	<0.5	8.44	<5	10	<0.5	<2	8.27	<0.5	63	6	305	13.45	0.04	4.16	1240	1	1.09	153	50	4	0.2	11	157	1.27	949	<10	87
415491	0.001	<0.005	<0.001	<0.5	11.25	<5	20	<0.5	<2	7.89	<0.5	43	124	145	8.81	0.05	2.77	850	2	1.76	116	120	<2	0.08	<5	260	0.71	497	10	58
415492	0.001	<0.005	<0.001	<0.5	10.25	<5	10	<0.5	<2	8.5	<0.5	49	36	136	9.95	0.06	3.63	1040	1	1.23	125	70	3	0.09	<5	221	0.78	585	<10	68
415493	0.002	<0.005	<0.001	<0.5	9.4	<5	10	<0.5	<2	8.34	<0.5	61	31	253	11.9	0.05	4.01	1175	1	1.16	134	40	7	0.15	7	171	0.95	700	<10	75
415494	0.001	<0.005	<0.001	<0.5	9.35	<5	10	<0.5	<2	8.38	<0.5	66	20	263	12.45	0.06	4.37	1230	<1	1.2	162	50	<2	0.23	6	175	1.07	763	<10	84
415495	0.001	<0.005	<0.001	<0.5	8.51	<5	10	<0.5	<2	8.37	<0.5	70	11	255	13.35	0.07	4.64	1335	1	1	129	40	<2	0.26	<5	152	1.15	849	<10	91
415496	<0.001	<0.005	<0.001	<0.5	9.75	<5	20	<0.5	<2	8.86	<0.5	60	7	133	11.45	0.09	3.82	1125	1	1.21	119	50	<2	0.19	<5	214	1.08	746	<10	77
415497	0.002	<0.005	0.003	<0.5	10.25	<5	10	<0.5	<2	6.02	<0.5	85	192	269	14.15	0.06	5.02	1195	<1	1.35	171	80	<2	0.2	<5	151	0.94	602	<10	102
415498	0.184	0.306	1.38	0.5	8.61	7	330	0.6	<2	7.93	0.7	63	134	3910	9.03	0.45	4.01	1305	2	1.79	270	1740	7	0.73	<5	703	0.54	312	<10	94
415499	0.002	<0.005	<0.001	<0.5	10.15	11	10	<0.5	2	7.48	<0.5	68	66	338	10.85	0.07	4.19	1100	1	1.44	143	120	<2	0.26	6	186	0.63	456	<10	95

	PGM-ICP24			ME-ICP61																								
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
415500	0.002	<0.005	<0.001	<0.5	9.83	5	10	<0.5	3	6.01	<0.5	78	100	280	12.9	0.07	3.91	1060	1	1.3	179	130	<2	0.23	<5	157	1.12	652	<10	93
415501	0.001	<0.005	<0.001	<0.5	8.68	<5	10	<0.5	<2	8.32	<0.5	59	171	178	11.55	0.06	4.37	1280	<1	0.99	125	70	<2	0.15	5	186	1	662	<10	75
415502	0.001	<0.005	<0.001	<0.5	10.15	<5	10	<0.5	<2	7.87	<0.5	55	182	161	12	0.06	3.51	1205	<1	1.3	126	70	5	0.13	5	220	1.29	830	<10	74
415503	0.001	<0.005	<0.001	<0.5	8.96	<5	10	<0.5	<2	7.75	<0.5	62	171	130	12.7	0.05	3.54	1150	1	1	129	60	<2	0.1	<5	196	1.33	890	<10	81
415504	0.003	<0.005	<0.001	<0.5	12.4	5	20	<0.5	<2	8.75	<0.5	57	26	958	7.5	0.06	2.03	687	<1	1.91	119	100	2	0.72	9	300	0.6	394	<10	46
415505	0.002	<0.005	<0.001	<0.5	11.6	<5	20	<0.5	<2	8.28	0.6	43	12	124	8.06	0.05	2.87	888	2	2.07	139	70	2	0.08	5	282	0.62	430	<10	63
415506	0.001	<0.005	<0.001	<0.5	8.7	<5	10	<0.5	<2	7.95	<0.5	65	8	381	12.8	0.05	3.87	1210	2	1.22	152	60	<2	0.34	11	163	1.39	965	<10	84
415507	0.001	<0.005	<0.001	<0.5	9.16	<5	10	<0.5	<2	8.6	0.9	60	8	358	10.5	0.04	4.08	1120	2	1.26	153	60	2	0.21	<5	221	0.86	614	<10	81
415508	0.001	<0.005	<0.001	<0.5	7.89	<5	10	<0.5	<2	7.53	<0.5	75	5	529	12.6	0.03	4.17	1280	2	1.14	207	50	<2	0.46	7	141	1.21	841	<10	82
415509	<0.001	<0.005	<0.001	<0.5	0.32	<5	10	<0.5	<2	0.04	<0.5	<1	3	4	0.07	0.11	0.02	8	<1	0.01	3	50	4	0.01	<5	5	0.02	4	<10	<2
415510	0.001	<0.005	<0.001	<0.5	8.01	<5	10	<0.5	<2	7.85	0.8	57	4	252	11.55	0.03	4.45	1260	<1	1.16	133	40	5	0.16	<5	153	0.97	681	<10	83
415511	0.01	<0.005	<0.001	<0.5	8.47	<5	10	<0.5	<2	7.8	<0.5	60	6	243	11.7	0.03	4	1210	<1	1.23	133	50	<2	0.17	<5	172	1.03	719	<10	81
415512	0.003	<0.005	<0.001	<0.5	11.55	<5	10	<0.5	<2	8.49	<0.5	47	18	238	9.03	0.04	2.73	868	<1	1.69	90	80	<2	0.19	6	245	0.83	566	<10	59
415513	0.008	<0.005	<0.001	<0.5	11.45	<5	10	<0.5	<2	8.71	0.7	39	33	143	7.46	0.03	2.86	858	2	1.71	62	70	<2	0.11	<5	243	0.65	429	<10	52
415514	0.002	<0.005	<0.001	<0.5	11.75	<5	10	<0.5	<2	8.4	0.9	38	30	153	6.81	0.03	2.66	777	1	1.96	55	60	5	0.12	<5	250	0.55	376	10	49

TM06113380 - Finalized
CLIENT : "NORSHI - Northern Shield Resources Inc."
# of SAMPLES : 100
DATE RECEIVED : 2006-11-10 DATE FINALIZED : 2006-12-03
PROJECT : " "
CERTIFICATE COMMENTS : ""
PO NUMBER : " "

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
415515	0.005	<0.005	0.002	<0.5	11.5	<5	10	<0.5	<2	8.43	0.9	35	13	239	6.21	0.02	2.5	709	<1	2.02	58	60	<2	0.15	<5	271	0.44	306	<10	47
415516	0.002	<0.005	0.001	<0.5	11.35	6	10	<0.5	<2	8.52	0.6	33	26	121	7.22	0.02	2.37	745	<1	1.83	63	70	<2	0.1	6	274	0.6	412	<10	47
415517	0.003	<0.005	0.001	<0.5	8.42	<5	10	<0.5	<2	8.29	<0.5	66	68	337	12.55	0.06	4.24	1255	<1	1.04	110	60	<2	0.25	<5	148	1.14	782	<10	81
415518	0.002	<0.005	0.001	<0.5	11.7	<5	20	<0.5	<2	8.89	0.6	36	5	86	7.28	0.05	2.27	789	1	1.69	79	70	<2	0.08	6	299	0.62	410	<10	54
415519	0.002	<0.005	<0.001	<0.5	7.51	7	10	<0.5	<2	7.98	0.5	68	75	286	11.9	0.07	4.65	1275	1	0.9	160	60	<2	0.28	8	126	0.94	694	<10	83
415520	0.107	0.287	1.18	0.5	8.26	<5	320	0.6	<2	7.67	0.5	61	129	3720	8.66	0.42	3.85	1260	2	1.72	257	1670	10	0.71	<5	674	0.51	300	<10	90
415521	0.002	<0.005	0.001	<0.5	11.35	<5	30	<0.5	<2	7.89	1.3	25	59	95	5.07	0.04	1.8	588	<1	2.39	67	70	8	0.05	10	334	0.4	262	<10	46
415522	0.001	<0.005	<0.001	<0.5	8.83	<5	20	<0.5	<2	7.13	0.5	69	131	239	11.7	0.06	3.82	1095	1	1.29	151	60	<2	0.39	<5	155	0.89	623	<10	81
415523	0.001	<0.005	0.001	<0.5	9.74	<5	10	<0.5	<2	6.38	<0.5	70	114	160	12.6	0.06	3.95	1110	1	1.54	154	50	<2	0.18	6	165	1.01	709	<10	90
415524	0.001	<0.005	<0.001	<0.5	10.55	<5	10	<0.5	<2	8.01	<0.5	59	94	147	9.95	0.06	3.85	1065	<1	1.41	122	50	<2	0.12	<5	193	0.74	494	10	86
415525	0.001	<0.005	<0.001	<0.5	8.87	<5	10	<0.5	3	7.66	<0.5	66	107	95	11.5	0.05	4.94	1240	<1	1.15	132	140	<2	0.08	5	151	0.71	475	10	90
415526	0.001	<0.005	<0.001	<0.5	9.47	10	10	<0.5	<2	7.48	<0.5	70	155	124	12.35	0.05	4.43	1190	<1	1.42	141	90	6	0.11	<5	196	0.9	604	<10	82
415527	0.001	<0.005	<0.001	<0.5	8.14	14	10	<0.5	<2	7.77	<0.5	76	133	266	12.75	0.05	4.72	1265	1	1.01	179	80	9	0.29	<5	151	0.96	656	<10	91
415528	0.002	<0.005	<0.001	<0.5	9.79	18	10	<0.5	<2	8.24	<0.5	48	96	211	8.76	0.04	3.6	1005	<1	1.37	115	50	2	0.12	<5	236	0.67	452	<10	67
415529	0.001	<0.005	<0.001	<0.5	9.94	8	10	<0.5	<2	7.15	<0.5	58	6	309	11	0.03	2.27	872	<1	1.51	108	50	10	0.37	5	211	1.18	842	<10	58
415530	0.001	<0.005	<0.001	<0.5	9.48	15	10	<0.5	<2	8.51	<0.5	59	10	252	11.45	0.03	3.41	1100	<1	1.28	110	80	10	0.33	<5	195	1.11	780	<10	67
415531	0.002	<0.005	0.001	<0.5	0.39	9	20	<0.5	<2	0.08	<0.5	<1	3	5	0.12	0.12	0.04	14	<1	0.02	1	40	4	0.01	<5	6	0.02	6	<10	<2
415532	0.001	<0.005	0.001	<0.5	8.94	6	10	<0.5	<2	7.65	<0.5	58	4	153	10.35	0.03	4.32	1140	<1	1.52	101	80	4	0.22	<5	181	0.71	472	<10	72
415533	0.001	<0.005	<0.001	<0.5	9.58	<5	10	<0.5	<2	8.72	<0.5	45	9	128	9.21	0.02	3.22	975	<1	1.37	71	60	7	0.18	<5	203	0.8	558	<10	63
415534	0.001	<0.005	<0.001	<0.5	9.38	<5	10	<0.5	<2	8.79	<0.5	53	17	115	10.8	0.03	3.34	1070	<1	1.24	62	40	8	0.2	<5	190	1.09	797	<10	68
415535	0.001	<0.005	0.002	<0.5	10.2	<5	10	<0.5	<2	8.7	<0.5	51	25	123	9.98	0.04	3.46	1015	<1	1.47	65	50	8	0.2	<5	207	0.82	613	<10	66
415536	<0.001	0.006	<0.001	<0.5	11.15	<5	10	<0.5	<2	7.9	<0.5	53	22	152	9.2	0.04	2.63	805	<1	1.89	79	40	9	0.23	<5	251	0.82	588	<10	60
415537	0.001	<0.005	<0.001	<0.5	11.1	11	10	<0.5	<2	9.18	<0.5	42	29	161	8.19	0.03	2.63	818	<1	1.63	97	70	2	0.19	<5	255	0.67	448	<10	53
415538	0.001	<0.005	<0.001	<0.5	11.2	19	10	<0.5	<2	8.42	<0.5	41	66	98	8.46	0.05	2.68	800	<1	1.56	91	190	5	0.12	<5	244	0.75	468	<10	54
415539	0.013	<0.005	<0.001	<0.5	10.8	14	20	<0.5	<2	7.91	<0.5	56	104	113	9.26	0.06	3.29	943	1	1.62	114	110	8	0.12	5	231	0.63	428	<10	67
415540	0.002	<0.005	<0.001	<0.5	11	5	10	<0.5	<2	7.71	<0.5	58	133	224	10.15	0.08	3.84	1010	<1	1.56	144	90	5	0.18	<5	212	0.7	460	<10	72
415541	0.002	<0.005	<0.001	<0.5	11.5	8	40	0.6	<2	8.71	<0.5	45	40	60	8.66	0.25	2.61	862	16	2.04	69	40	9	0.06	<5	271	0.63	484	<10	59
415542	0.117	0.334	1.18	1.2	8.77	8	350	0.7	<2	8.3	<0.5	65	155	4130	9.52	0.48	4.34	1395	<1	1.9	279	1840	20	0.77	<5	710	0.57	327	<10	96
415543	0.002	<0.005	0.001	<0.5	10.8	9	50	0.6	2	7.68	<0.5	64	56	340	9.8	0.37	2.7	753	10	1.93	87	50	8	0.63	<5	232	0.79	584	<10	64
415544	0.002	<0.005	<0.001	<0.5	10.4	13	20	0.9	2	8.17	<0.5	43	53	124	7.41	0.16	2.16	796	1	1.95	62	50	8	0.16	<5	247	0.59	402	<10	57
415545	0.002	<0.005	0.001	<0.5	10.4	7	20	<0.5	<2	7.42	<0.5	56	137	221	9.29	0.07	3.1	876	<1	1.71	132	110	6	0.17	<5	295	0.57	389	10	63
415546	0.002	<0.005	<0.001	<0.5	9.86	8	10	<0.5	<2	8.37	<0.5	56	91	257	10.65	0.05	3.68	1135	<1	1.04	137	50	8	0.23	<5	193	0.82	586	<10	69
415547	0.002	<0.005	<0.001	<0.5	10.2	<5	10	<0.5	<2	8.74	<0.5	53	102	220	10.3	0.04	3.49	1040	<1	1.05	119	70	11	0.15	<5	230	0.82	586	<10	67
415548	0.002	<0.005	<0.001	<0.5	10.2	10	10	<0.5	3	7.51	<0.5	61	70	264	8.86	0.05	3.31	970	<1	1.63	133	70	6	0.33	<5	212	0.59	361	<10	61
415549	0.001	<0.005	0.001	<0.5	10.35	9	20	<0.5	<2	7.96	<0.5	59	165	181	10.2	0.08	4.2	1130	<1	1.52	137	600	7	0.29	<5	351	0.6	392	<10	91
415550	0.001	<0.005	<0.001	<0.5	10.2	<5	20	<0.5	<2	8.9	<0.5	47	38	94	9.12	0.06	3.47	1115	<1	1.73	101	50	6	0.11	<5	252	0.67	495	<10	83
415551	0.001	<0.005	<0.001	<0.5	9.33	6	10	<0.5	<2	8.23	<0.5	58	25	89	12	0.09	4.28	1335	<1	1.38	100	50	8	0.12	<5	185	0.97	689	<10	98
415552	0.001	<0.005	<0.001	<0.5	8.69	7	10	<0.5	<2	8.43	<0.5	61	37	194	13.2	0.09	4.14	1455	<1	1.12	106	40	8	0.21	<5	159	1.33	830	<10	102
415553	0.002	<0.005	0.001	<0.5	0.35	8	20	<0.5	<2	0.06	<0.5	1	3	4	0.09	0.12	0.03	11	<1	0.01	3	40	2	0.01	<5	6	0.02	5	<10	<2

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
415554	0.001	<0.005	0.001	<0.5	11.5	<5	30	<0.5	<2	8.95	<0.5	25	21	46	5.67	0.26	1.33	747	19	2.01	22	300	3	0.21	<5	280	0.61	253	<10	48
415555	0.001	<0.005	<0.001	<0.5	10.45	<5	30	<0.5	<2	8.58	<0.5	19	18	10	5.17	0.25	1.31	678	2	2.1	15	490	<2	0.03	<5	274	0.33	168	<10	44
415556	0.001	<0.005	<0.001	<0.5	11.5	14	40	<0.5	<2	8.4	<0.5	15	12	20	3.98	0.19	0.94	481	1	2.56	14	660	4	0.09	<5	344	0.3	145	<10	33
415557	0.003	<0.005	<0.001	<0.5	10.95	7	30	<0.5	<2	8.17	<0.5	27	29	45	6.86	0.19	1.79	829	<1	2.15	25	440	<2	0.2	<5	294	0.59	268	<10	53
415558	0.001	<0.005	0.001	<0.5	12.1	13	40	<0.5	<2	8.52	<0.5	33	124	95	7.54	0.24	1.05	690	<1	2.3	36	210	5	0.44	<5	311	1.1	483	<10	53
415559	0.001	<0.005	0.001	<0.5	10.5	10	50	<0.5	<2	5.36	<0.5	81	55	93	18.95	0.57	1.22	979	<1	1.57	132	150	12	0.43	<5	259	2.81	1660	<10	100
415560	0.001	<0.005	<0.001	<0.5	8.57	<5	20	<0.5	<2	7.32	<0.5	81	10	138	17	0.28	3.28	1360	1	1.17	84	140	11	0.51	<5	176	2.18	1290	<10	100
415561	0.001	<0.005	<0.001	<0.5	10.05	7	200	<0.5	<2	6.57	<0.5	28	27	36	6.42	0.49	1.86	738	1	2.46	25	240	5	0.08	<5	338	0.55	275	<10	51
415562	<0.001	<0.005	<0.001	<0.5	9.43	<5	20	<0.5	<2	6.72	1	55	29	83	12.45	0.2	2.35	1030	<1	1.68	63	180	<2	0.31	<5	224	1.5	895	<10	76
415563	0.002	<0.005	<0.001	<0.5	7.66	<5	20	<0.5	<2	6.94	0.6	57	24	71	14.25	0.15	2.65	1250	1	1.03	53	260	<2	0.26	<5	170	1.63	935	<10	93
415564	0.003	<0.005	<0.001	<0.5	10.05	6	30	<0.5	<2	7.12	0.7	31	12	79	7.58	0.26	1.47	749	<1	1.76	29	290	<2	0.3	<5	244	0.89	411	<10	45
415565	0.002	<0.005	<0.001	<0.5	9.19	<5	290	0.5	<2	5.16	0.8	29	23	62	7.74	0.52	1.22	703	<1	2.45	28	200	<2	0.22	<5	468	0.84	407	<10	52
415566	0.001	<0.005	<0.001	<0.5	9.8	<5	30	<0.5	<2	8.27	0.8	41	69	82	8.65	0.28	3.01	1040	<1	1.46	80	140	<2	0.12	<5	223	0.72	404	<10	63
415567	0.001	<0.005	<0.001	<0.5	10.55	<5	20	<0.5	<2	8.87	1.1	41	89	214	9	0.23	2.51	974	<1	1.32	87	240	<2	0.27	<5	223	0.9	458	<10	61
415568	0.001	<0.005	<0.001	<0.5	10.45	<5	20	<0.5	<2	8.25	0.9	38	71	83	7.98	0.2	2.29	868	<1	1.7	68	140	<2	0.1	<5	230	0.75	399	<10	56
415569	0.001	<0.005	<0.001	<0.5	10.45	<5	30	<0.5	<2	8.16	1	39	37	214	8.56	0.23	2.2	907	<1	1.49	105	210	<2	0.35	<5	221	0.88	424	<10	58
415570	0.001	0.007	0.009	<0.5	6.18	<5	40	<0.5	<2	4.83	<0.5	76	352	485	14.5	0.18	2.81	1270	1	1.14	219	140	<2	0.74	6	137	1.79	896	<10	95
415571	0.001	<0.005	<0.001	<0.5	8.78	6	50	<0.5	<2	6.79	0.7	55	111	147	11.2	0.24	3.79	1310	<1	1.47	110	210	<2	0.27	<5	184	0.94	440	<10	91
415572	0.001	<0.005	0.001	<0.5	7.17	<5	20	<0.5	<2	7.31	1	53	16	193	9.99	0.31	3.59	1130	1	0.9	81	70	<2	0.18	7	133	0.89	568	<10	70
415573	0.001	<0.005	0.003	<0.5	9.4	<5	150	0.5	<2	6.47	1	38	70	103	8.44	0.57	2.66	1050	1	1.93	68	430	<2	0.19	8	292	0.74	329	<10	72
415574	0.001	<0.005	0.001	<0.5	10.1	<5	30	<0.5	<2	8.06	1.1	43	71	162	8.48	0.26	2.69	990	<1	1.58	99	260	<2	0.26	<5	238	0.74	334	<10	59
415575	0.096	0.366	1.265	0.8	8.2	<5	330	0.7	<2	8.01	0.6	63	151	3950	9.12	0.45	4.06	1360	1	1.82	267	1720	7	0.83	<5	669	0.55	304	<10	88
415576	0.001	<0.005	0.001	<0.5	7.1	5	340	0.7	<2	2.69	0.7	10	16	35	3.36	0.49	0.58	297	3	2.81	14	200	6	0.04	<5	466	0.17	57	<10	28
415577	0.001	<0.005	0.005	<0.5	10.1	<5	40	0.6	<2	7.99	1.1	42	99	132	9.05	0.41	2.91	1090	1	1.67	94	140	<2	0.16	<5	218	0.75	397	<10	70
415578	0.002	<0.005	0.002	<0.5	7.08	<5	30	<0.5	<2	7.18	0.5	67	132	263	14.6	0.44	4.52	1520	<1	1.09	146	400	<2	0.26	<5	130	1.49	775	<10	93
415579	0.003	<0.005	<0.001	<0.5	10.15	<5	40	<0.5	<2	8.28	1.5	36	55	189	6.99	0.34	2.07	780	<1	1.78	76	240	<2	0.18	<5	277	0.59	320	<10	47
415580	0.001	<0.005	0.001	<0.5	8.27	<5	30	<0.5	<2	6.68	<0.5	59	89	155	12.15	0.46	3.81	1330	<1	1.41	115	210	<2	0.15	<5	183	1.02	526	<10	83
415581	0.001	<0.005	0.001	<0.5	8.68	<5	20	<0.5	<2	7.84	0.8	48	85	136	10.35	0.22	3.68	1240	<1	1.32	86	230	<2	0.14	<5	180	0.87	482	<10	74
415582	0.004	<0.005	<0.001	<0.5	9.16	<5	20	<0.5	<2	8.81	0.6	48	38	189	11.25	0.13	3.43	1200	1	0.98	78	140	<2	0.19	5	184	1.04	622	<10	73
415583	0.008	<0.005	<0.001	<0.5	8.79	10	30	<0.5	<2	7.88	0.9	48	30	236	9.95	0.15	3.22	1070	1	1.16	99	230	<2	0.21	<5	182	0.93	532	<10	63
415584	0.001	<0.005	<0.001	<0.5	9.18	<5	10	<0.5	<2	7.6	<0.5	47	10	107	10.3	0.25	3.18	1160	<1	1.47	56	190	<2	0.2	<5	198	0.93	513	<10	78
415585	0.001	<0.005	<0.001	<0.5	10.8	<5	40	<0.5	<2	7.98	1.2	48	7	198	4.01	0.08	0.85	464	6	2.79	20	130	<2	0.41	<5	308	0.24	131	<10	31
415586	0.001	<0.005	0.001	<0.5	0.43	<5	10	<0.5	<2	0.12	<0.5	2	6	6	0.11	0.11	0.03	13	<1	0.04	<1	40	5	0.01	<5	8	0.02	4	<10	<2
415587	<0.001	<0.005	<0.001	<0.5	9.42	<5	30	<0.5	<2	8.61	1	19	10	41	4.63	0.07	0.96	547	1	2.03	23	220	<2	0.06	5	271	0.39	218	<10	30
415588	0.002	<0.005	0.001	<0.5	7.07	<5	10	<0.5	<2	6.52	0.9	86	39	737	13.6	0.1	5.95	1450	<1	0.87	258	120	<2	0.53	<5	77	0.83	555	<10	81
415589	<0.001	<0.005	<0.001	<0.5	9.22	<5	50	<0.5	<2	7.6	1.1	41	42	133	9.31	0.51	2.78	1030	1	1.44	96	100	<2	0.12	<5	195	0.87	520	<10	64
415590	0.001	<0.005	<0.001	<0.5	9.3	<5	30	<0.5	<2	7.7	0.8	38	41	142	8.86	0.29	2.74	999	<1	1.44	91	160	<2	0.13	<5	181	0.82	506	<10	58
415591	<0.001	<0.005	<0.001	<0.5	8	<5	10	<0.5	<2	6.94	0.8	36	40	139	7.92	0.25	2.54	884	<1	1.1	86	130	5	0.13	<5	153	0.72	417	<10	59
415592	0.002	<0.005	<0.001	<0.5	8.11	7	20	<0.5	<2	7.63	0.9	47	52	211	10.15	0.12	3.24	1120	1	1.2	105	230	<2	0.19	<5	187	0.89	529	<10	67
415593	<0.001	<0.005	<0.001	<0.5	8.81	<5	10	<0.5	<2	7.94	1.1	46	38	162	10.1	0.08	2.9	1100	<1	1.22	86	160	<2	0.18	<5	194	0.95	548	<10	68
415594	0.001	<0.005	0.002	<0.5	7.11	<5	20	<0.5	<2	7.72	0.6	53	44	339	11.5	0.08	3.01	1180	1	1.28	105	4580	<2	0.36	<5	152	1.22	652	<10	114
415595	0.001	<0.005	0.001	<0.5	7.9	<5	30	<0.5	<2	8.02	1	57	70	175	10.35	0.16	4.3	1230	<1	1.01	175	190	<2	0.12	<5	189	0.74	511	<10	70
415596	<0.001	<0.005	0.001	<0.5	7.23	<5	30	<0.5	<2	7.99	<0.5	63	55	311	12.25	0.15	4.18	1410	<1	1.03	152	120	<2	0.29	<5	155	1.08	649	<10	83
415597	0.11	0.317	1.225	0.7	7.96	<5	320	0.7	<2	7.89	0.6	64	157	3750	9.04	0.42	4	1340	<1	1.75	264	1690	11	0.79	<5	651	0.55	305	<10	91
415598	<0.001	<0.005	0.001	<0.5	6.76	<5	20	<0.5	3	8.47	<0.5	60	70	201	12.7	0.13	4.86	1420	1	0.87	129	70	2	0.18	<5	148	1.24	757	<10	85
415599	0.001	<0.005	0.001	<0.5	8.32	<5	30	<0.5	<2	6.75	<0.5	57	58	234	11.3	0.14	3.69	1190	1	1.42	120	140	5	0.23	<5	182	1.13	640	<10	75

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
415600	<0.001	<0.005	0.001	<0.5	8.23	12	30	1.4	2	7.32	<0.5	58	60	201	11.45	0.16	4.43	1330	1	1.28	111	110	<2	0.17	<5	184	1.04	594	<10	77
415601	<0.001	<0.005	<0.001	<0.5	7.87	<5	20	<0.5	<2	7.55	<0.5	66	98	239	12.65	0.11	4.23	1370	1	1.11	139	70	3	0.24	<5	189	1.33	823	<10	79
415602	0.001	<0.005	0.001	<0.5	7.84	11	20	<0.5	<2	8.21	<0.5	61	92	256	12.45	0.11	4.26	1310	1	1.07	137	100	<2	0.23	<5	185	1.29	777	<10	78
415603	<0.001	<0.005	0.001	<0.5	7.73	8	10	<0.5	<2	8.22	<0.5	56	83	255	12	0.08	3.97	1260	1	1.02	140	100	2	0.22	<5	173	1.24	774	<10	76
415604	<0.001	<0.005	<0.001	<0.5	9.09	14	20	<0.5	<2	8.32	<0.5	54	95	231	11.1	0.11	3.64	1150	1	1.22	124	150	2	0.2	<5	201	1.08	845	<10	68
415605	<0.001	<0.005	<0.001	<0.5	9.22	11	20	<0.5	<2	8.52	<0.5	48	90	208	10.7	0.12	3.57	1100	1	1.22	112	110	<2	0.2	<5	193	1.1	641	<10	68
415606	<0.001	<0.005	<0.001	<0.5	10.85	<5	20	<0.5	<2	8.18	<0.5	47	82	218	9.59	0.09	3.13	1000	1	1.72	110	100	3	0.23	<5	236	0.9	539	<10	63
415607	<0.001	<0.005	<0.001	<0.5	10.4	<5	10	<0.5	3	8.28	<0.5	42	76	156	8.41	0.08	3.12	934	1	1.62	83	90	2	0.17	<5	223	0.75	447	<10	60
415608	<0.001	<0.005	<0.001	<0.5	0.33	<5	10	<0.5	2	0.04	<0.5	1	4	4	0.06	0.12	0.02	8	<1	0.01	2	40	2	0.01	<5	6	0.02	3	<10	2
415609	<0.001	<0.005	<0.001	<0.5	11.5	<5	30	<0.5	3	8.46	<0.5	42	25	168	8.59	0.16	2.56	854	1	1.82	88	170	7	0.22	<5	266	0.81	494	<10	56
415610	<0.001	<0.005	0.001	<0.5	7.92	<5	20	<0.5	<2	7.97	<0.5	59	143	208	11.5	0.22	4.5	1280	1	1.09	139	80	4	0.24	<5	168	1.11	684	<10	80
415611	<0.001	<0.005	<0.001	0.5	8.36	5	40	<0.5	<2	5.51	<0.5	84	430	52	11.1	0.39	6.07	1140	1	1.2	256	110	<2	0.05	<5	181	0.36	237	<10	78
415612	<0.001	<0.005	<0.001	<0.5	7.08	<5	20	<0.5	<2	5.11	<0.5	94	423	80	12.2	0.11	6.28	1270	1	1.07	270	120	<2	0.06	<5	126	0.45	290	<10	86
415613	0.002	<0.005	<0.001	<0.5	10.3	7	20	<0.5	<2	8.29	<0.5	40	62	217	8.5	0.11	2.65	864	1	1.44	108	90	5	0.16	<5	226	0.83	533	<10	57
415614	<0.001	<0.005	<0.001	<0.5	6.87	<5	20	<0.5	<2	8.03	<0.5	64	132	337	11.85	0.14	5.06	1360	<1	0.99	138	270	4	0.31	<5	111	1.05	620	<10	86

TM06130907 - Finalized
CLIENT : "NORSHI - Northern Shield Resources Inc."
# of SAMPLES : 15
DATE RECEIVED : 2006-12-27 DATE FINALIZED : 2007-01-18
PROJECT : "HIGHBANK LAKE"
CERTIFICATE COMMENTS : ""
PO NUMBER : " "

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
415321	<0.001	0.006	0.008	<0.5	9.42	10	40	<0.5	3	7.8	<0.5	32	119	151	6.11	0.27	2.8	837	1	1.77	67	110	<2	0.11	<5	241	0.37	233	<10	55
415322	<0.001	0.008	0.001	<0.5	0.33	<5	10	<0.5	<2	0.04	<0.5	<1	4	3	0.05	0.12	0.02	8	<1	0.01	<1	40	<2	0.01	<5	5	0.01	1	<10	2
415323	0.001	0.01	0.011	<0.5	9.15	<5	50	<0.5	3	7.81	<0.5	40	169	267	7.33	0.37	3.43	980	1	1.47	92	100	<2	0.28	<5	227	0.55	316	<10	66
415324	<0.001	0.005	0.006	<0.5	10.4	<5	50	<0.5	3	8.42	<0.5	37	155	210	7.06	0.32	3.27	929	1	1.61	93	90	<2	0.14	<5	252	0.52	289	<10	63
415325	<0.001	<0.005	0.005	<0.5	9.25	5	150	<0.5	3	6.75	<0.5	43	145	160	6.94	0.85	3.77	1045	1	1.64	133	110	<2	0.27	<5	213	0.32	226	<10	73
415326	<0.001	0.006	0.005	<0.5	9.12	<5	90	<0.5	<2	7.11	<0.5	37	145	115	6.19	0.56	3.48	884	1	1.73	106	120	<2	0.21	<5	246	0.26	185	<10	55
415327	<0.001	0.007	0.005	<0.5	8.23	<5	140	<0.5	2	5.89	<0.5	31	226	134	5.6	0.5	3.33	836	2	1.83	95	90	2	0.14	<5	258	0.27	163	<10	54
415328	<0.001	0.006	0.006	<0.5	9.43	8	120	<0.5	3	7.61	<0.5	37	181	102	6.25	0.85	3.9	960	<1	1.62	109	110	<2	0.1	6	265	0.26	178	<10	55
415329	0.001	0.008	0.007	<0.5	9.36	<5	50	<0.5	<2	7.77	<0.5	41	212	132	6.41	0.39	3.98	957	3	1.68	133	80	6	0.08	<5	252	0.28	193	<10	56
415330	0.001	0.008	0.007	<0.5	9.44	<5	140	<0.5	<2	7.07	<0.5	46	170	161	6.45	1.08	3.94	1000	<1	1.58	158	70	6	0.18	<5	259	0.24	160	<10	67
415331	<0.001	<0.005	0.005	<0.5	9.01	<5	80	<0.5	<2	6.83	<0.5	57	138	95	7.02	0.83	4.54	1035	7	1.64	206	80	5	0.15	<5	260	0.2	128	<10	73
415332	<0.001	<0.005	0.001	<0.5	10.35	<5	180	<0.5	<2	7.59	0.6	32	62	121	5.15	1.12	2.59	786	<1	2.05	87	360	8	0.34	<5	347	0.3	155	<10	52
415333	0.117	0.554	1.345	1.5	8.29	5	330	0.7	<2	7.77	0.5	66	145	3850	8.86	0.45	4.06	1315	<1	1.77	262	1720	15	0.76	6	675	0.55	313	<10	94
415334	0.001	<0.005	0.001	<0.5	9.3	<5	130	<0.5	<2	7.54	0.6	35	100	64	6.02	1	3.31	901	2	1.56	102	370	6	0.14	<5	299	0.31	195	<10	58
415335	<0.001	<0.005	<0.001	<0.5	9.54	<5	140	<0.5	<2	7.51	0.5	30	94	40	5.41	1.08	2.86	840	<1	1.7	80	150	5	0.08	<5	307	0.33	177	<10	53

TM06132902 - Finalized
CLIENT : "NORSHI - Northern Shield Resources Inc."
# of SAMPLES : 14
DATE RECEIVED : 2006-12-21 DATE FINALIZED : 2007-01-08
PROJECT : "Highbank Lake"
CERTIFICATE COMMENTS : ""
PO NUMBER : " "

	PGM-ICP24			ME-ICP61																										
SAMPLE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
415336	0.001	<0.005	0.001	<0.5	9.77	<5	120	<0.5	<2	7.67	<0.5	41	132	94	7.39	1.04	3.9	1105	2	1.56	130	150	4	0.18	<5	232	0.45	235	<10	67
415337	0.001	0.005	0.004	<0.5	6.75	<5	50	<0.5	5	6.71	<0.5	69	193	111	10.55	0.38	6.49	1790	1	0.97	181	90	3	1.26	6	180	0.64	326	<10	113
415338	<0.001	0.009	0.005	<0.5	9.65	<5	240	<0.5	<2	5.62	<0.5	30	75	25	5.43	1.49	3.09	941	1	1.81	80	140	<2	0.08	<5	314	0.2	143	<10	59
415339	<0.001	<0.005	0.001	<0.5	7.56	<5	70	<0.5	<2	5.49	<0.5	64	184	66	9.48	0.63	5.78	1515	<1	1.05	146	90	<2	0.69	<5	190	0.51	306	<10	98
415340	<0.001	0.005	0.001	<0.5	7.08	<5	20	<0.5	<2	7.87	<0.5	45	164	58	8.27	0.21	5.14	1415	2	0.84	117	220	<2	0.1	<5	339	0.38	244	<10	83
415341	<0.001	<0.005	<0.001	<0.5	7.69	<5	80	<0.5	<2	6.81	<0.5	47	142	88	8.16	0.64	4.81	1380	1	1.31	104	130	<2	0.12	<5	246	0.34	234	<10	84
415342	<0.001	<0.005	<0.001	<0.5	7.41	<5	50	<0.5	<2	7.26	<0.5	47	164	82	8.74	0.46	4.71	1445	4	1.19	115	110	<2	0.16	<5	416	0.5	283	10	88
415343	0.001	0.005	<0.001	<0.5	7.92	<5	90	<0.5	<2	6.95	<0.5	49	157	99	8.59	0.85	5	1425	<1	1.27	111	180	<2	0.16	<5	263	0.42	279	<10	82
415344	<0.001	0.006	<0.001	<0.5	0.3	<5	10	<0.5	<2	0.02	<0.5	<1	3	2	0.03	0.11	0.02	6	<1	0.01	2	30	<2	0.01	<5	4	0.01	1	<10	<2
415345	<0.001	<0.005	<0.001	<0.5	7.36	<5	10	<0.5	<2	9.06	<0.5	44	147	37	7.96	0.04	4.34	1255	4	0.55	110	220	<2	0.06	<5	428	0.32	230	<10	62
415346	<0.001	<0.005	<0.001	<0.5	8.11	<5	70	<0.5	<2	7.04	<0.5	51	139	448	9.12	0.69	4.96	1425	1	1.22	112	180	<2	0.3	<5	395	0.51	321	<10	94
415347	<0.001	<0.005	<0.001	<0.5	8.09	<5	40	0.8	<2	7.26	<0.5	44	148	68	7.86	0.26	4.36	1195	9	1.6	114	270	<2	0.25	<5	587	0.42	261	10	76
415348	<0.001	<0.005	0.001	<0.5	7.98	<5	60	0.6	<2	6.68	<0.5	53	160	46	9.07	0.46	5.69	1505	8	1.51	132	190	<2	0.21	<5	295	0.42	268	<10	104
415349	<0.001	<0.005	<0.001	<0.5	8.25	<5	80	0.7	<2	7.02	<0.5	47	161	79	8.37	0.51	4.86	1415	2	1.51	111	170	<2	0.11	<5	377	0.41	246	<10	92