ASSESSMENT REPORT

BASED ON THE

2014 GEOLOGICAL MAPPING/PROSPECTING PROGRAM

North Range Property
Foy, Wisner and Bowell Townships

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SUMMARY

This report describes the work completed for the geological mapping and prospecting program carried out between September 15th and October 22nd, 2014, concentrated in the northeast region of the Bowell Township and northwest region of the Wisner Township.

The geological mapping and prospecting was performed on the North Range claims group held by FNX Mining Inc., a wholly owned subsidiary of KGHM International.

The total expenditures for the work reported herein were 19,274.00$.

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INTRODUCTION

The North Range property consists of 5271 hectares of contiguous claim blocks (Appendix A) comprising 36 individual claims (328 claim units). The claims were originally recorded by Aurora Platinum Corporation between April 2000 and January 2004, which was acquired by FNX Mining Company Inc. of Sudbury, Ontario in July 2005..

CLAIM STATUS

Work reported herein was conducted on 5 of the 36 North Range leased claims (Table 1), wholly owned by FNX Mining Company Inc.

Table 1: North Range claims worked on in 2014

Township/Area	Claim Number	Claim Due Date	Total Claim Units	Work Required
Bowell	3019461	2015-Jan-12	12	$4,800
Bowell	3019462	2015-Jan-12	12	$4,800
Wisner	1241607	2015-Apr-14	8	$3,200
Wisner	1241608	2015-Apr-14	16	$6,400
Wisner	1241612	2015-Apr-17	16	$6,400

PROPERTY LOCATION AND ACCESS

The North Range property is located in the Sudbury mining district, approximately 50 km north of the city. It covers the northern half of Wisner and Bowell Townships and the east-central portion of Foy Township, and is roughly centered at UTM 494700E and 5180200N. The west side of the property is accessible by seasonal logging roads and all-terrain vehicle (ATV) trails. Detailed driving directions to the western half of the property are printed on the map in Figure 1. Several of the northernmost claims were more readily accessed by Kumska Lake, itself accessible by seasonal logging roads and ATV trails. Detailed driving directions to Kumska Lake are printed on the map in Figure 2.

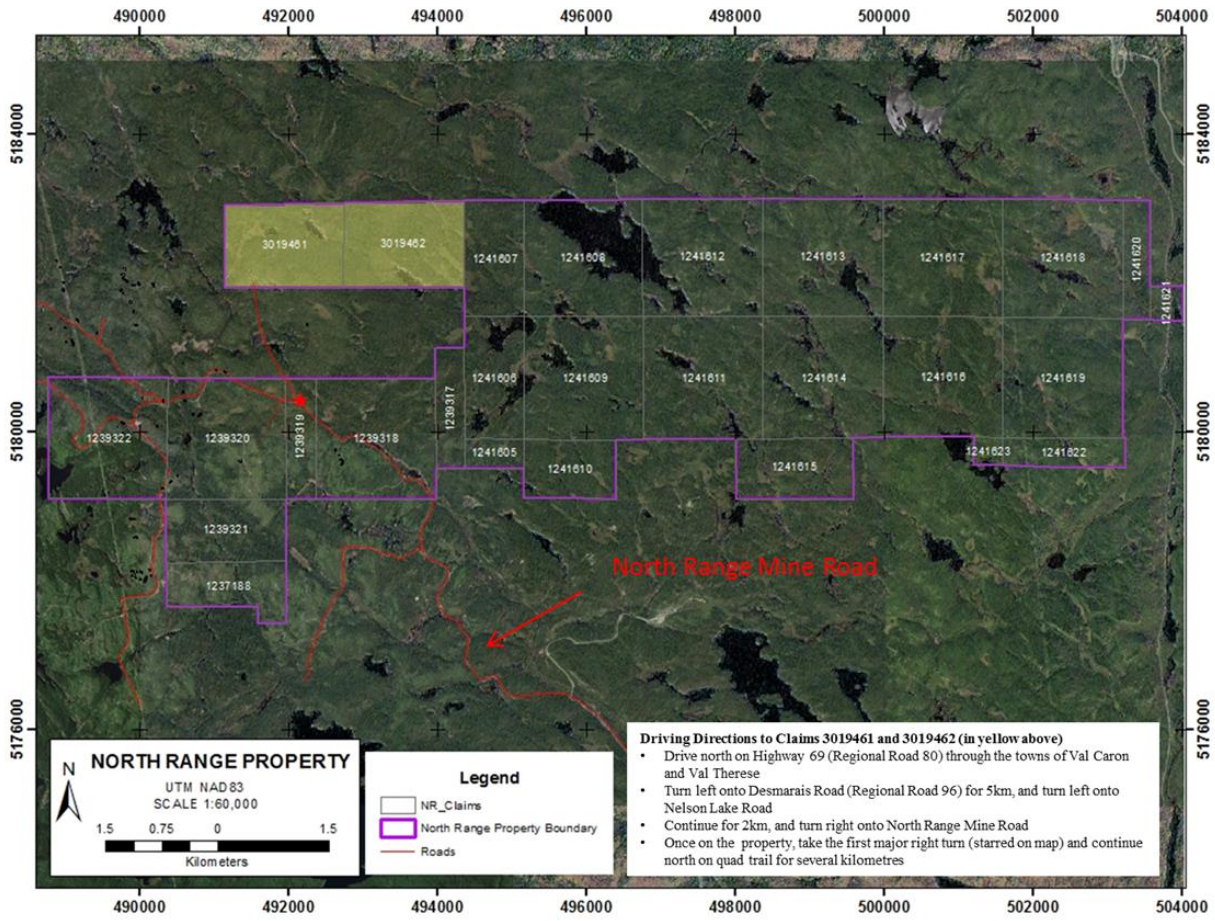

Figure 1: Access to claims 3019461 and 3019462 on the North Range property from the city of Sudbury.

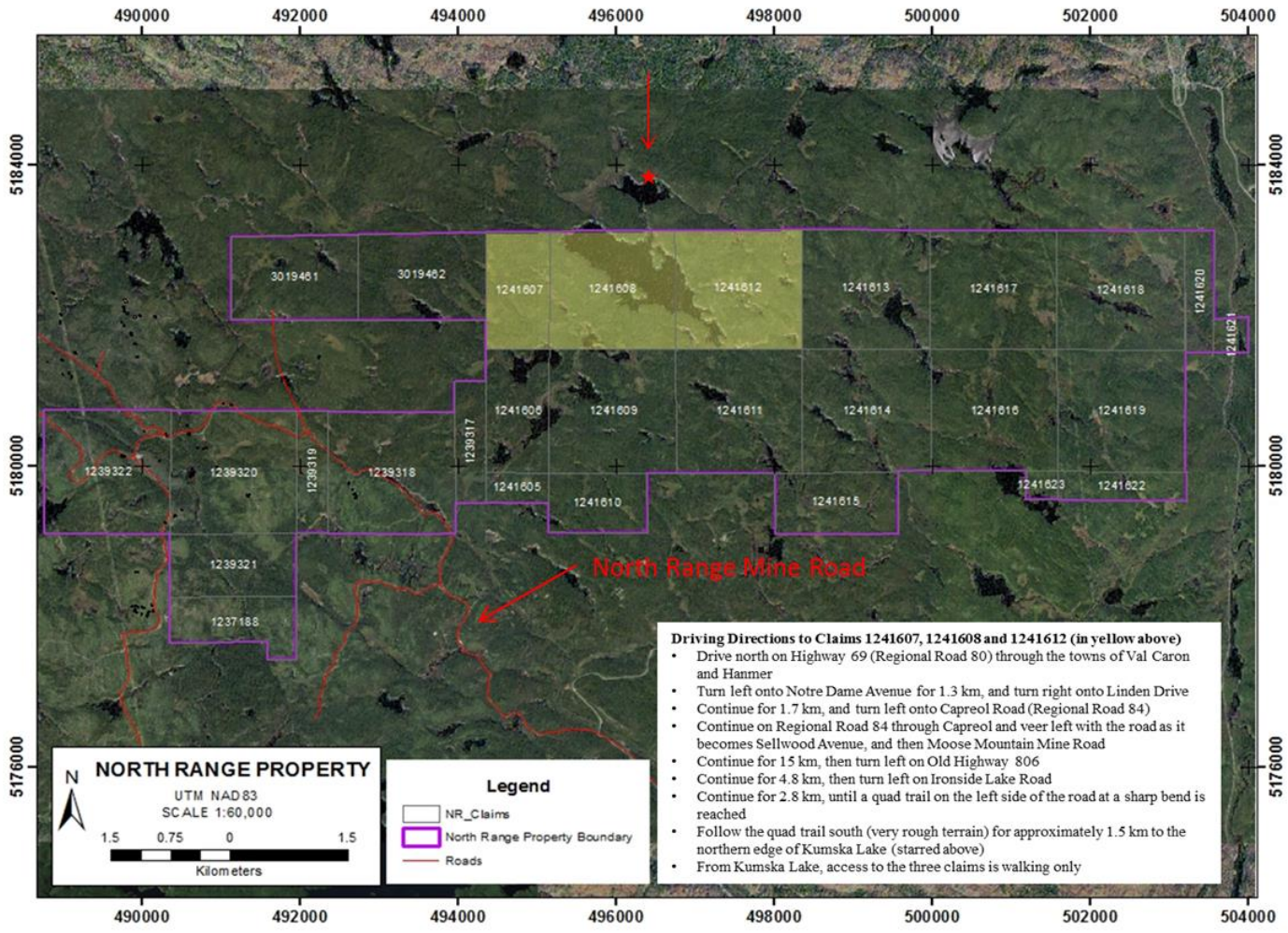

Figure 2: Access to claims 1241607, 1241608 and 1241612 on the North Range property from the city of Sudbury.

REGIONAL GEOLOGY

The Sudbury Basin, widely accepted to be the result of a meteorite impact 1.85 billion years ago (Krogh et al., 1984), is an elliptical geologic structure approximately 27 km wide by 60 km long located just north of the city of Sudbury. The resultant crater was in-filled with magma containing nickel-copper-platinum-palladium-gold as well as other by-product metals. The ore material settled out of the magma and collected in topographic lows or traps along the lower contact of the Sudbury Igneous Complex (SIC), or within offset dykes which radiate outwards from the Sudbury Basin into the country rock. Some ore metals were later re-mobilized and deposited into the pseudotachylite known as Sudbury Breccia (Rousell et al., 2002), which occurs in the footwall to the SIC.

Mineralization associated with the SIC occurs at or near the contact of the SIC with the surrounding country rock or within offset dykes. Contact deposits are nickel-rich and located in traps and/or embayments at the base of the SIC. The copper-nickel-platinum-palladium – rich footwall deposits occur in the Sudbury Breccia below, and often in the shadow of the contact deposits. Nickel-copper-platinum-palladium – rich sulfides associated with quartz diorite offset dykes that radiate outward from the edges of the Sudbury Basin are often concentrated in areas of constriction. Post-magmatic deformation of the southern margins of the SIC has resulted in re-concentration of metals in structurally controlled settings.

The SIC consists of four main units, which are, from bottom to top: the contact sublayer (a discontinuous mineralized, xenolith-bearing norite), norite, quartz gabbro, and granophyre (Naldrett, 1984). The contact sublayer at the base of the SIC occupies kilometre-scale radial depressions, referred to as embayment structures. Ni-Cu deposits are localized within these structures in smaller sub-horizontal structures called terraces. Footwall breccia (also known as anatexite or as (late) granite breccia), a xenolith-bearing metamorphic to igneous-textured breccia, underlies the contact sublayer discontinuously, predominantly along the North and East ranges. Granite Breccia commonly contains Ni-Cu sulfide mineralization. The Sudbury Breccia can occur from the contact with the SIC up to several tens of kilometres from the SIC and is of significance as a host for Cu-Ni-PGE mineralization proximal to the SIC contact and lower sulfide Cu-PGE mineralization further away from the SIC contact.

PROPERTY GEOLOGY

The footwall rocks north of the SIC on the North Range property are dominantly Archean granitoids of the Cartier Batholith (Meldrum et al., 1997) and an assortment of migmatites and hybrid gneisses, as well as Matachewan and Nipissing mafic dykes and Sudbury Breccia.

The granitoids and hybrid gneisses are primarily granodioritic in composition but range between quartz monzonite and tonalite in composition. They are medium- to coarse-grained, are usually moderately to strongly foliated and migmatitic but may also be massive, and are usually potassium feldspar-altered. Occasional epidote alteration or veining is present. Inclusions in the granitoids are commonly intermediate to mafic gneiss or gabbro. Inclusions range from less than ten to hundreds of meters in size.

A swarm of NW to N with subordinate NE-trending diabase dykes belonging to the Matachewan and Nipissing dyke swarms (Card and Meyn, 1969) cross-cut the granitoids and gneisses. The dykes are generally dark greenish-black, fine- to medium-grained, equigranular and weakly to strongly magnetic. The dykes occasionally contain trace pyrite.

The majority of the Sudbury Breccia observed in outcrop is present as clast-poor veins, ranging from 1 mm to several cm wide. The matrix is generally black and aphanitic, usually constituting 70-85% of the total breccia, with 15-30% local granitoid clasts with sharp contacts. Occasionally trace sulfide mineralization was observed in grab samples, usually pyrite and/or pyrrhotite.

EXPLORATION HISTORY

A variety of exploration programs have been conducted on the North Range claims, including: six geophysical surveys, including an AeroTEM survey in 2000 and a MegaTEM survey in 2001; four mapping/prospecting programs, two of which used Beep-Mat technology, between 2001 and 2004; two surface geochemical surveys (soil and humus sampling) between 1988 and 1989; and one diamond drilling program (10 holes drilled to test a shallow GEM-2 anomaly – 277 samples returned no anomalous assay values). The locations, directions, dips and lengths of these drill holes can be seen below in Figure 2. Much of this work was conducted on the eastern portion of the Claims Group.

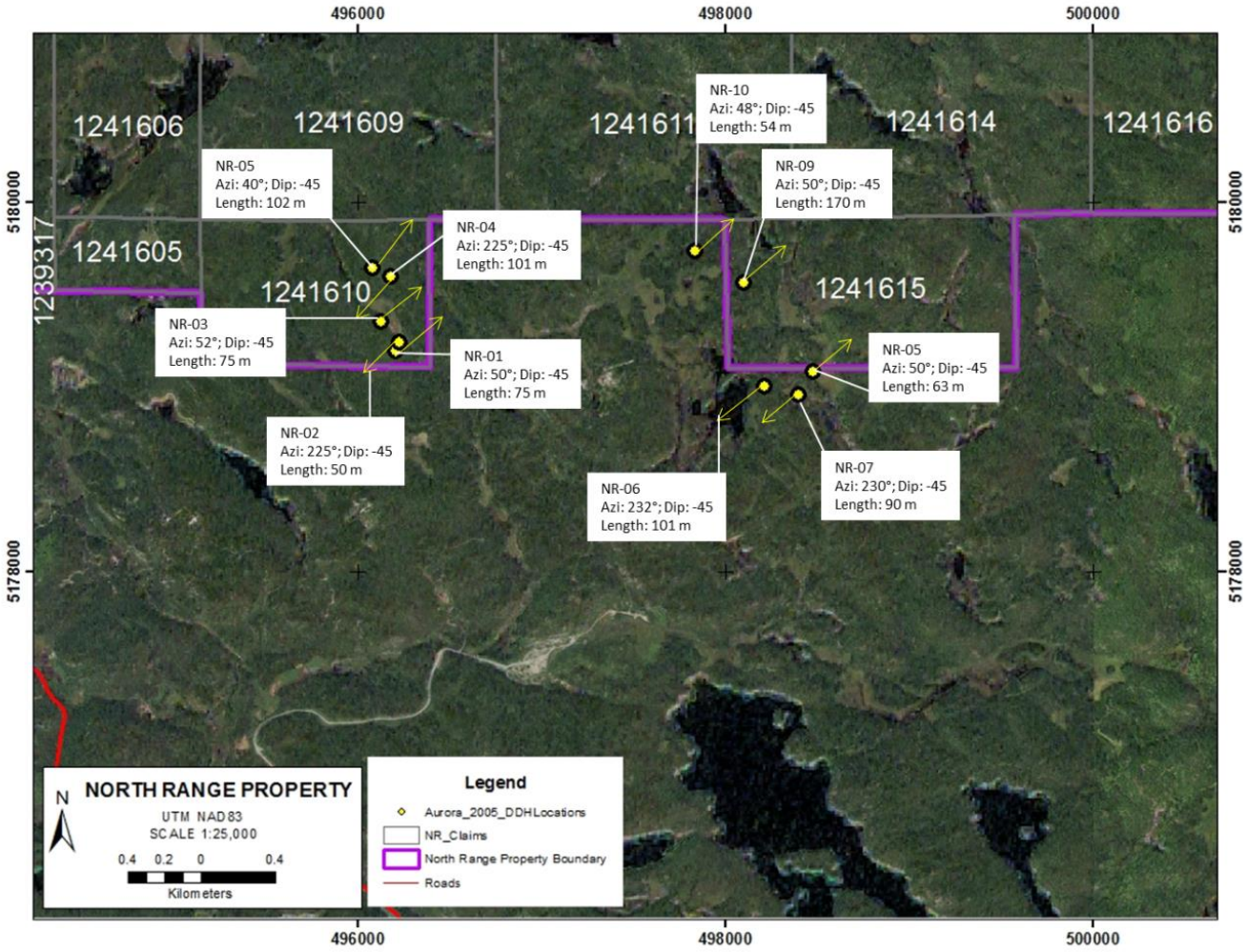

Figure 3: Aurora Platinum Corp. Diamond Drill Hole Locations from 2005 Drill Program

2014 GEOLOGICAL MAPPING/PROSPECTING PROGRAM

Introduction

During the months of September and October, 2014, a mapping/prospecting program was undertaken on the North Range property. Five out of the 36 claims, focusing on the north central to northwestern portions of the North Range claims group, were visited, mapped, and sampled (Table 1). The aim of this program was to identify features that indicate whether the ground is prospective for Ni-Cu-PGE mineralization. In addition, the results of the mapping/prospecting program are used in conjunction with previous work performed on the property, to determine whether further exploration is warranted on the claims or if they should be released.

Methodology

The surface mapping/prospecting program on the North Range property took place between September 15th and October 22nd, 2014, with 9 days spent in the field. Each day, a geologist and a technician were tasked with mapping outcrops, taking geological structure measurements, and sampling where appropriate. One truck was supplied for transportation to the North Range property. Two all-terrain vehicles were transported to and parked on or near the property for the duration of the work program to assist with access to areas not approachable by truck. To assist with accessing the north central claims (1241607, 1241608 and 1241612), a canoe with a battery-operated trolling motor was stored on the northern shore of Kumska Lake (see red star in Figure 2) while the three claims were mapped.

The North Range claims were sectioned into manageable blocks for outcrop mapping, 1.5 km wide by 2 km long, and mapped at the 1:10,000 scale. There was no specific grid pattern set up to follow during traverses; mapping was focused on areas that had not been covered in past years. Due to the abundance of outcrop in the mapping area, stations were spaced at approximately 100-200 m apart or at any change in rock type. A photo was taken at the vast majority of stations (a fresh and weathered face of the outcrop wherever possible) and catalogued according to outcrop/sample number (e.g. NR14-xxx).

The procedure for sample collection involved collecting a freshly broken piece of outcrop, bagging the sample and cataloguing it. All samples were completely described at the end of the field season and select representative samples were sent for assay. Samples were taken at every occurrence of Sudbury Breccia or mineralization.

Structural measurements were taken with Suunto MC-2 compasses and outcrop station locations were taken using a handheld Garmin GPS.

The paper map generated from the 2014 mapping/prospecting program was digitized by CAD technicians to produce a 1:10,000 scale outcrop map of the North Range property.

Personnel

The names, positions and roles of the FNX Mining Inc. personnel involved in the 2014 mapping/prospecting program are outlined in Table 2.

Table 2: FNX Mining Inc. personnel involved in the 2014 mapping/prospecting program

Name of Employee	Position	Role
Steven Gregory	Senior Project Geologist	Project Direction/Supervision
Leigh Allen	Exploration Geologist	Mapping/Data Collection/Project Planning
Gerry Shields	Senior Technician	Data Collection/Field Assistance/Vehicle Maintenance
Nicholas Moylan	CAD Technician	Digitizing

RESULTS

The end of the 2014 mapping/prospecting program yielded 130 outcrop stations, spread across five claims in the north central to northwestern areas of the North Range property (Figures 1 and 2), in areas where previous mapping had not been completed. A complete list of the mapped outcrops is presented in Appendix B. From these outcrops, a total of three representative samples were taken (Figure 5). Only five of the outcrops contained any significant Sudbury Breccia, and only two of these had any visible mineralization (both containing trace disseminated pyrite with possible pyrrhotite).

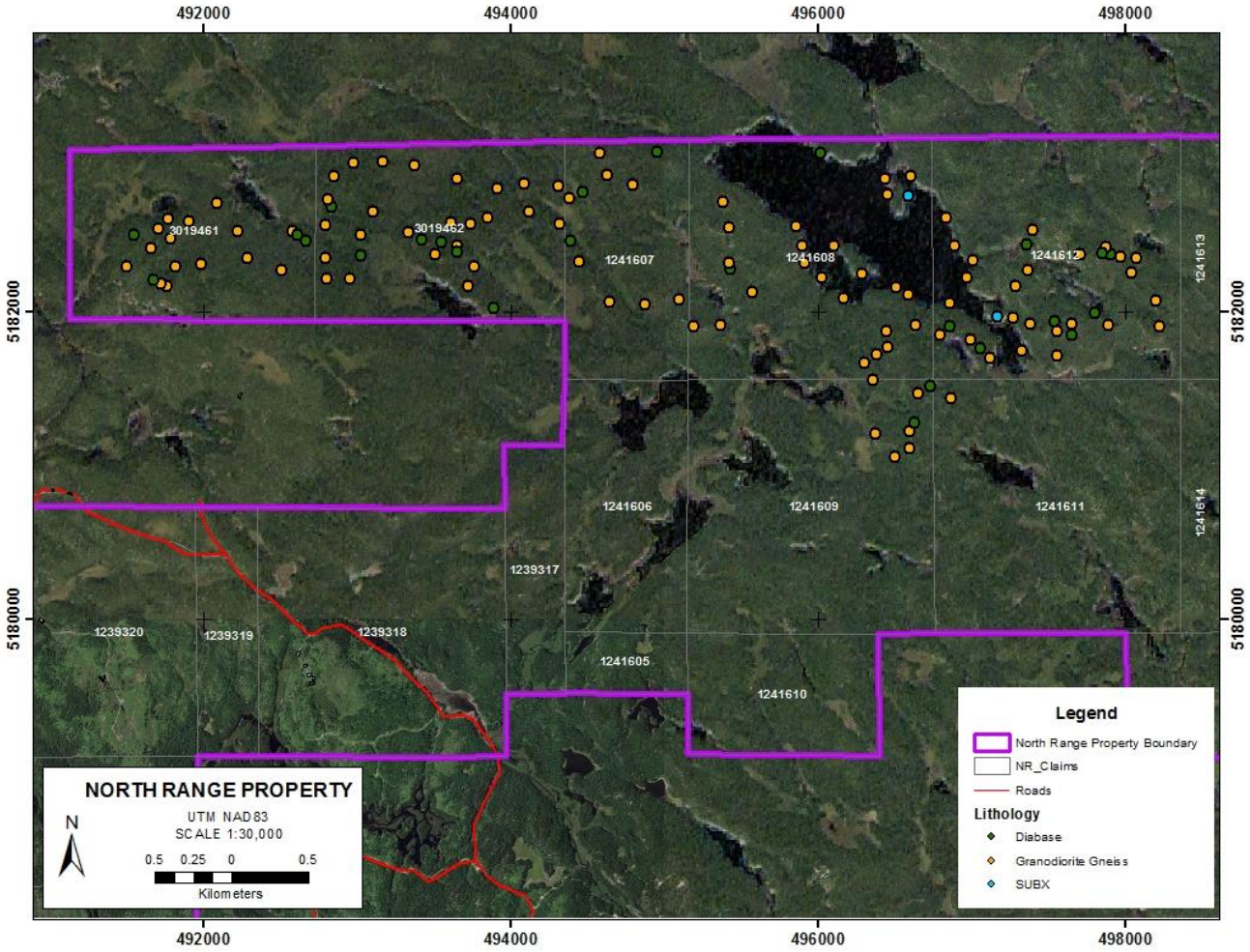

Figure 4: 2014 outcrop stations and mapping coverage on the North Range property.

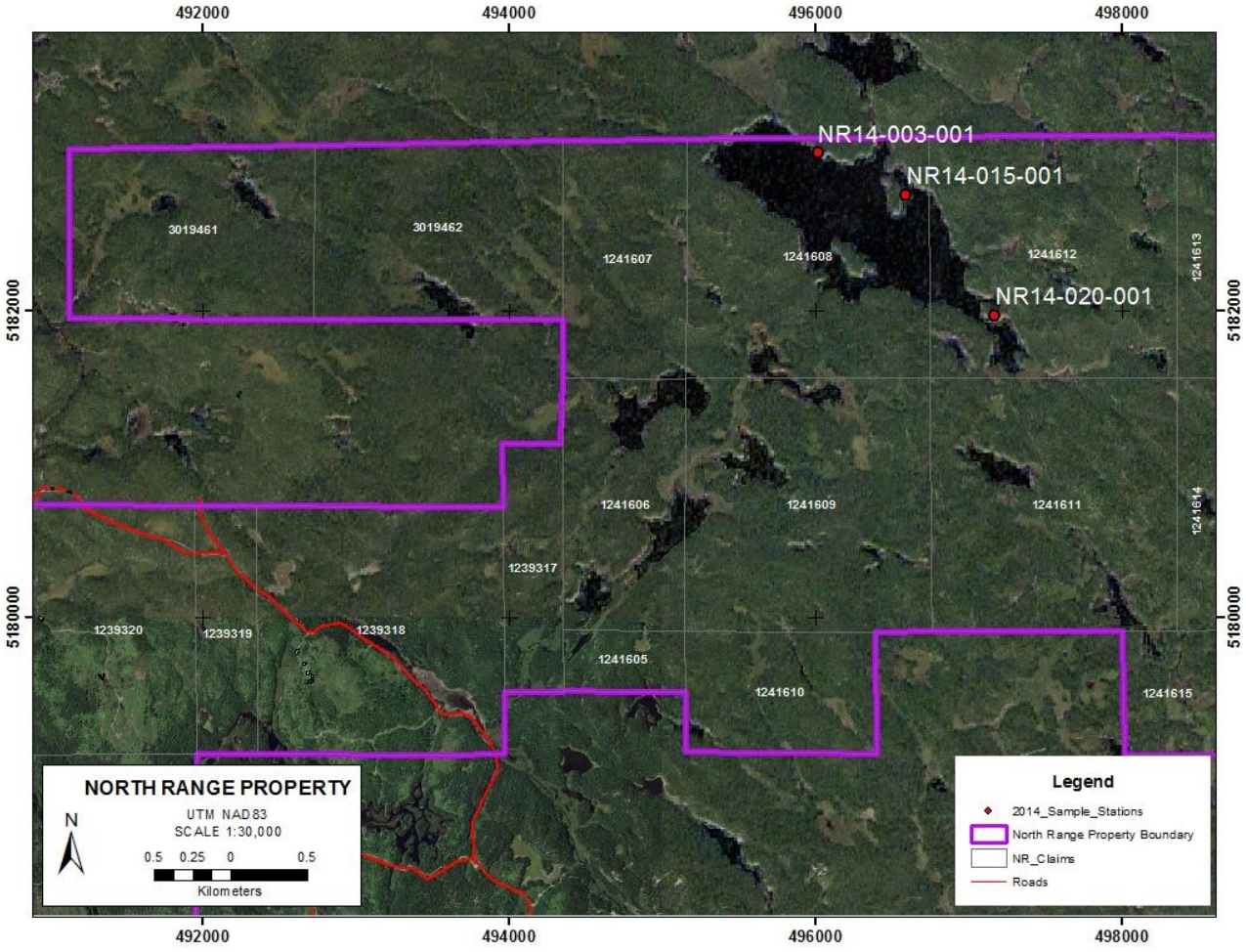

Figure 5: Locations of grab samples taken during the 2014 mapping/prospecting program on the North Range property.

Combining the results of this year's mapping program with previous mapping as well as referencing the AeroTEM survey flown in 2000, the 2013 surface geology map was updated and expanded to include claims 1241608 and 124612 at the 1:10,000 scale (Figure 6).

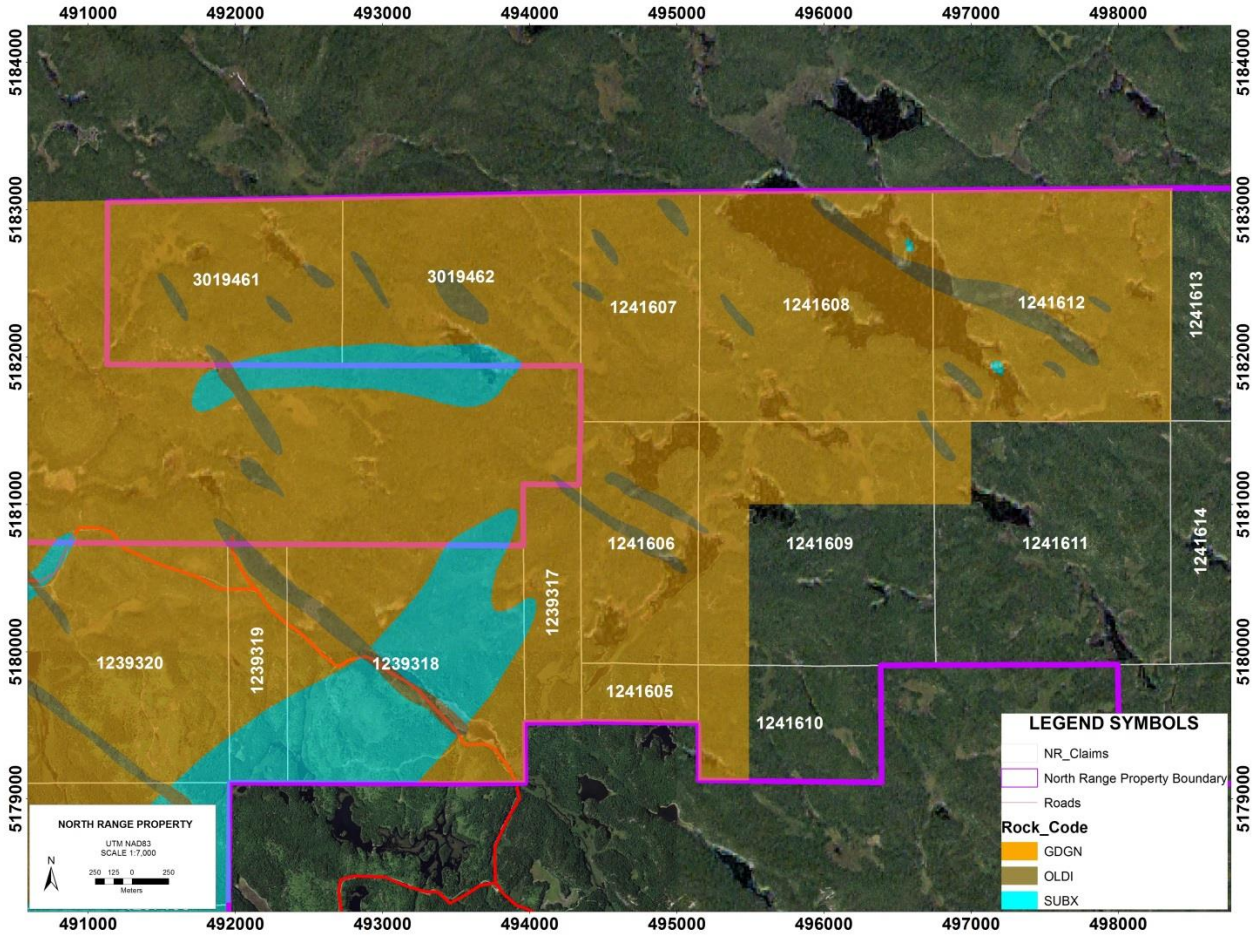

Figure 6: Surface geology map of the North Range property.

Recommendations

The following table is a summary of recommendations to either continue exploration on the 5 claims investigated and summarized this year or release them. Recommendations take into account geochemical surveys, previous mapping, this year's mapping, and field sampling/assay results (Appendix C).

Table 3: Recommendations for five North Range claims investigated in 2014.

Claim Number	Geochemical Surveys	Geophysical Surveys	Mapping/Sampling Projects	Recommendation
3019461	<1/4 of claim covered; no geochemical anomalies	~1/3 covered by MegaTEM; no anomalies	Not covered in previous mapping/sampling programs; no SUBX mapped or anomalous samples taken in 2014 program	Drop
3019462	<1/4 of claim covered; no geochemical anomalies	Not covered	Not covered in previous mapping/sampling programs; no SUBX mapped or anomalous samples taken in 2014 program	Drop
1241607	<1/4 of claim covered; no geochemical anomalies	Covered by AeroTEM; no anomalies	Not covered in previous mapping/sampling programs; no SUBX mapped or anomalous samples taken in 2014 program	Drop
1241608	~1/4 covered; no geochemical anomalies	Covered by AeroTEM; no anomalies	Not covered in previous mapping/sampling programs; one SUBX outcrop mapped but no anomalous samples taken in 2014 program	Drop
1241612	~1/4 covered; no geochemical anomalies	Covered by AeroTEM; no anomalies	Not covered in previous mapping/sampling programs; one SUBX outcrop mapped but no anomalous samples taken in 2014 program	Drop

RECOMMENDED FUTURE WORK

No anomalous assay values were returned from the samples taken during the 2014 mapping/prospecting program. With full consideration given to the results from previous geophysical/geochemical surveys and mapping programs, it has been recommended that all of the claims investigated during the work program be released. Future work on the North Range claim group includes gaining access to the eastern and southern areas of the property and performing similar mapping/prospecting programs. These will provide the necessary data to determine the potential of these claims and thereby allow the Operator the opportunity to either maintain the claims for future work or drop the claims if they have limited value.

EXPENDITURES

Table 4: Expenditures related to the 2014 North Range Mapping/Prospecting Program

North Range 2014 Mapping/Prospecting Program Expenditures		
Salaries (KGHM-I Personnel)		
Senior Project Geologist (Project Supervision): 1 day @ $450 / day	$	450.00
Geologist (Field Days, Research, Interpretation, Data Entry, Sample Preparation, Petrography, Reporting): 40 days @ $300 / day	$	12,000.00
AutoCAD Technicians (Data Processing): 2.5 days @ $300 / day	$	750.00
Technicians (Logistics): 11 days @ $200 / day	$	2,200.00
Subtotal	**$**	**15,400 .00**
Transportation Costs		
Truck Rental (11 days @ $45/day)	$	495 .00
Canoe, Motor, Quad Rack and Battery	$	1579.00
ATV Rental x2 (11 days @ 100$/day)	$	1,100.00
Mileage Costs for Truck (Avg. 100 km/day @ $0.50/km)	$	550.00
Subtotal	**$**	**3,724 .00**
Sample Assays		
Samples N986516-N986518 (3 total @ $50/sample)	$	150.00
Subtotal	**$**	**150.00**
PROGRAM TOTAL		**19,274.00$**

REFERENCES

Card, K.D., and Meyn, H.D., 1969. Geology of the Leinster-Bowell Area, Ontario Department of Mines Geological Report 65.

Dressler, B.O., 1984b. General Geology of the Sudbury Area *in* The Geology and Ore Deposits of the Sudbury Structure *edited by* Pye, E.G., Naldrett, A.J., and Giblin, P.E. Ontario Geological Survey, Special Volume 1, p. 57-82.

Krogh, T.E., Davis, D.W. & Corfu, F., 1984. Precise U-Pb zircon and baddeleyite ages for the Sudbury area. *In* The Geology and Ore Deposits of the Sudbury Structure *edited by* Pye, E.G., Naldrett, A.J., and Giblin, P.E. Ontario Geological Survey Special Volume 1, p. 431-447.

Meldrum, A.,Abdel-Rahman, A –F M., Martin, R.F., and Wodicka, N., 1997. The Nature, Age and Petrogenesis of the Cartier Batholith, Northern Flank of the Sudbury Structure, Ontario, Canada. Precambrian Research 82: 265-285.

Naldrett, A.J., 1984. Ni-Cu Ores of the Sudbury Igneous Complex – Introduction *in* The Geology and Ore Deposits of the Sudbury Structure *edited by* Pye, E.G., Naldrett, A.J., and Giblin, P.E. Ontario Geological Survey Special Volume 1, p. 302-307.

Rousell, D.H., Fedorowich, J., and Dressler, B.O., 2002. Sudbury Breccia (Canda): a Product of the 1850 Ma Sudbury Event and Host to Footwall Cu-Ni-PGE Deposits. Earth Science Reviews 60 (2003), p. 147-174.

STATEMENT OF QUALIFICATION

I, Leigh K. Allen of the City of Greater Sudbury, Province of Ontario, do hereby certify that:

I am a geologist residing at 402 Albinson Street, Sudbury, Ontario, P3C 3W7;

I graduated from the University of Ottawa, Ottawa, Ontario (Bachelor of Science – Honours) in 2011.

I have been practicing in my profession as a geologist continuously since July 2011;

I am the author of the report entitled "2014 Geological Mapping/Prospecting Program on the North Range Property", based on work completed by KGHM International between September 15th, 2014 and October 22nd, 2014.

I have no personal interest in the property covered by this report.

Dated in Sudbury, Ontario, this 16th day of December, 2014.

Leigh Allen, B.Sc., G.I.T

APPENDIX A: NORTH RANGE CLAIM GROUP

Township/Area	Claim Number	Claim Due Date	Total Claim Units	Work Required
BOWELL	1239317	2015-Apr-14	4	$1,600
BOWELL	1239318	2015-Apr-14	16	$6,400
BOWELL	1239319	2015-Apr-14	4	$1,600
BOWELL	1239320	2015-Apr-17	16	$6,400
BOWELL	1239321	2015-Apr-17	8	$3,200
BOWELL	1239322	2015-Apr-17	16	$6,400
BOWELL	3008102	2015-Jun-27	6	$2,400
BOWELL	3019454	2015-Jan-12	6	$2,400
FOY	3008103	2015-Jun-27	4	$1,600
FOY	3008104	2015-Jun-27	4	$1,600
FOY	3008105	2015-Jun-27	2	$800
FOY	3008106	2015-Jun-27	2	$800
FOY	3011967	2015-Jan-12	4	$1,600
FOY	3011968	2015-Jan-12	4	$1,600
WISNER	1241605	2015-Apr-14	2	$800
WISNER	1241606	2015-Apr-14	8	$3,200
WISNER	1241607	2015-Apr-14	8	$3,200
WISNER	1241608	2015-Apr-14	16	$6,400
WISNER	1241609	2015-Apr-14	16	$6,400
WISNER	1241610	2015-Apr-14	6	$2,400
WISNER	1241611	2015-Apr-14	16	$6,400
WISNER	1241612	2015-Apr-17	16	$6,400
WISNER	1241613	2015-Apr-17	16	$6,400
WISNER	1241614	2015-Apr-14	16	$6,400
WISNER	1241615	2015-Apr-14	8	$3,200
WISNER	1241616	2015-Apr-14	16	$6,400
WISNER	1241617	2015-Apr-14	16	$6,400
WISNER	1241618	2015-Apr-14	16	$6,400
WISNER	1241619	2015-Apr-14	16	$6,400
WISNER	1241620	2015-Apr-14	4	$1,600
WISNER	1241621	2015-Apr-14	1	$400
WISNER	1241622	2015-Apr-14	4	$1,600
WISNER	1241623	2015-Apr-14	1	$400

APPENDIX B: 2014 MAPPING RESULTS

Table 5: 2014 Mapping/Prospecting Program Outcrop Stations

Outcrop Station	Easting	Northing	Elevation	Major Rock	Grain Size	Minor Rock	Mineralization	Alteration	Team
NR14-001	496435	5182868	363	Granite Gneiss	Medium-Coarse	-	None visible	Kspar, epidote veinlets	LA, GS
NR14-002	496455	5182763	360	Granite Gneiss	Medium-Coarse	-	None visible	Kspar, minor epidote	LA, GS
NR14-003	496012	5183028	366	Granodiorite Gneiss	Medium-Coarse	DIA	~0.5-1% Py + Po in DIA	Moderate kspar and epidote in GDGN	LA, GS
NR14-004	495858	5182552	365	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-005	495894	5182425	364	Granite Gneiss	Medium-Coarse	-	None visible	Strong kspar, minor epidote	LA, GS
NR14-006	495915	5182315	372	Granite Gneiss	Medium-Coarse	-	None visible	Strong kspar	LA, GS
NR14-007	496103	5182425	368	Granite Gneiss	Medium-Coarse	-	None visible	Strong kspar, moderate epidote	LA, GS
NR14-008	496285	5182249	366	Granodiorite Gneiss	Medium	-	None visible	Kspar, minor epidote	LA, GS
NR14-009	496165	5182090	363	Granodiorite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-010	496027	5182221	363	Granite Gneiss	Medium-Coarse	-	Trace Py	Kspar	LA, GS
NR14-011	496508	5182157	365	Granodiorite Gneiss	Medium-Coarse	-	Trace Py	Weak kspar	LA, GS
NR14-012	496589	5182112	364	Granite Gneiss	Medium-Coarse	SUBX?	None visible	Strong kspar	LA, GS
NR14-013	496854	5182055	366	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-014	496601	5182885	358	Granite	Medium-Coarse	-	None visible	Strong kspar	LA, GS
NR14-015	496590	5182753	364	Granite Gneiss	Medium-Coarse	SUBX	Trace Py + Po (?)	Kspar	LA, GS
NR14-016	496834	5182614	364	Granite Gneiss	Medium-Coarse	SUBX?	None visible	Kspar	LA, GS

Outcrop Station	Easting	Northing	Elevation	Major Rock	Grain Size	Minor Rock	Mineralization	Alteration	Team
NR14-017	496892	5182432	363	Granite Gneiss	Medium-Coarse	DIA	None visible	Kspar (GRGN); epidote (DIA)	LA, GS
NR14-018	497005	5182335	365	Granite	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-019	496967	5182220	372	Granodiorite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-020	497170	5181970	375	Granodiorite Gneiss	Medium-Coarse	SUBX	Trace Py	Strong kspar, moderate-strong epidote locally	LA, GS
NR14-021	497120	5181697	366	Granodiorite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-022	497056	5181763	384	Diabase	Fine	-	None visible	Surface oxidation	LA, GS
NR14-023	496990	5181818	395	Granodiorite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-024	496855	5181906	389	Diabase	Fine-Medium	-	None visible	Surface oxidation	LA, GS
NR14-025	496797	5181852	379	Granite Gneiss	Medium-Coarse	QV	None visible	Strong kspar, minor epidote	LA, GS
NR14-026	496638	5181916	385	Granodiorite Gneiss	Medium-Coarse	-	None visible	Kspar, minor epidote	LA, GS
NR14-027	496446	5181870	395	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-028	496453	5181770	396	Granodiorite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-029	496382	5181720	377	Granodiorite Gneiss	Coarse	-	None visible	Kspar	LA, GS
NR14-030	496305	5181667	382	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-031	496359	5181557	380	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-032	496369	5181207	397	Granodiorite Gneiss	Medium	-	None visible	Minor kspar	LA, GS
NR14-033	496500	5181055	388	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-034	496595	5181114	402	Granodiorite Gneiss	Medium	-	None visible	Kspar	LA, GS
NR14-035	496594	5181222	404	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-036	496624	5181278	399	Diabase	Fine	GDGN	None visible	-	LA, GS

Outcrop Station	Easting	Northing	Elevation	Major Rock	Grain Size	Minor Rock	Mineralization	Alteration	Team
NR14-037	496649	5181469	397	Granodiorite Gneiss	Medium-Coarse	-	None visible	Kspar, minor epidote	LA, GS
NR14-038	496726	5181515	397	Diabase	Fine	-	None visible	-	LA, GS
NR14-039	496862	5181435	392	Granodiorite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-040	494952	5183038	391	Diabase	Medium	-	None visible	Surface oxidation	LA, GS
NR14-041	494792	5182824	409	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-042	494631	5182891	395	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-043	494577	5183028	407	Granite Gneiss	Medium-Coarse	-	None visible	Kspar, surface oxidation	LA, GS
NR14-044	494466	5182778	385	Diabase	Fine-Medium	-	None visible	Surface oxidation	LA, GS
NR14-045	494383	5182739	379	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-046	494307	5182814	390	Granodiorite Gneiss	-	-	None visible	Kspar	LA, GS
NR14-047	494088	5182831	379	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-048	494123	5182651	379	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-049	494321	5182570	402	Granodiorite Gneiss	Medium-Coarse	-	None visible	Very minor kspar	LA, GS
NR14-050	494387	5182458	394	Diabase	Fine	-	Trace Py	Minor surface oxidation	LA, GS
NR14-051	494441	5182328	399	Granite Gneiss	Medium-Coarse	-	None visible	Strong kspar	LA, GS
NR14-052	494643	5182067	404	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-053	494876	5182051	395	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-054	495092	5182082	398	Granite Gneiss	Medium	-	None visible	Kspar	LA, GS
NR14-055	495189	5181906	412	Granite Gneiss	Medium	SUBX	None visible	Kspar (GRGN)	LA, GS
NR14-056	495366	5181917	387	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-057	495569	5182126	384	Granodiorite Gneiss	Medium-Coarse	-	None visible	Minor kspar	LA, GS
NR14-058	495427	5182277	387	Diabase	Fine	-	None visible	Carb veinlets (?)	LA, GS
NR14-059	495423	5182315	391	Granodiorite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS

Outcrop Station	Easting	Northing	Elevation	Major Rock	Grain Size	Minor Rock	Mineralization	Alteration	Team
NR14-060	495423	5182546	406	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-061	495381	5182712	401	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-062	497269	5181957	360	Granite Gneiss	Medium-Coarse	-	None visible	Kspar, minor epidote	LA, GS
NR14-063	497381	5181918	403	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-064	497538	5181934	397	Diabase	Very fine	-	None visible	-	LA, GS
NR14-065	497556	5181873	401	Granite Gneiss	Medium-Coarse	-	None visible	Kspar, minor epidote	LA, GS
NR14-066	497557	5181717	392	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-067	497652	5181852	392	Diabase	Fine	Granite Gneiss	None visible	-	LA, GS
NR14-068	497654	5181921	404	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-069	497797	5181989	393	Diabase	Fine	-	None visible	Minor surface oxidation	LA, GS
NR14-070	497892	5181916	395	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-071	498225	5181907	410	Granite Gneiss	Medium-Coarse	-	None visible	Kspar, minor epidote	LA, GS
NR14-072	498197	5182069	415	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-073	498038	5182252	418	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-074	498070	5182349	412	Granite Gneiss	Medium-Coarse	-	None visible	Kspar, minor epidote	LA, GS
NR14-075	497965	5182360	397	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-076	497908	5182371	407	Diabase	Fine	-	None visible	Minor surface oxidation	LA, GS
NR14-077	497875	5182420	413	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-078	497845	5182383	413	Diabase	Fine	Granite Gneiss	None visible	Kspar (GRGN)	LA, GS
NR14-079	497706	5182375	411	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-080	497393	5182529	395	Granite Gneiss	Medium-Coarse	-	None visible	Kspar, minor epidote	LA, GS

Outcrop Station	Easting	Northing	Elevation	Major Rock	Grain Size	Minor Rock	Mineralization	Alteration	Team
NR14-081	497356	5182436	387	Diabase	Fine	Granite Gneiss	None visible	Kspar (GRGN)	LA, GS
NR14-082	497365	5182274	403	Granite Gneiss	Medium-Coarse	Diabase	None visible	Kspar (GRGN)	LA, GS
NR14-083	497283	5182165	402	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-084	497325	5181746	366	Granite Gneiss	Medium-Coarse	Diabase	None visible	Kspar (GRGN)	LA, GS
NR14-085	491766	5182164	439	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-086	491820	5182294	438	Granodiorite Gneiss	Medium	-	None visible	-	LA, GS
NR14-087	491789	5182478	441	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-088	491707	5182537	428	Granite Gneiss	Medium-Coarse	Diabase	Trace Py (DIA)	Kspar (GRGN)	LA, GS
NR14-089	491768	5182607	437	Granite Gneiss	Medium-Coarse	-	Trace Py	Kspar	LA, GS
NR14-090	491909	5182588	440	Granodiorite Gneiss	Coarse	-	None visible	-	LA, GS
NR14-091	492089	5182706	425	Granite Gneiss	Coarse	-	None visible	Kspar	LA, GS
NR14-092	492222	5182523	404	Granite Gneiss	Coarse	-	None visible	Kspar	LA, GS
NR14-093	492577	5182524	399	Granodiorite Gneiss	Medium-Coarse	-	Trace Py	Kspar	LA, GS
NR14-094	492609	5182501	397	Diabase	Fine	-	Trace Py	Surface oxidation, chlorite veinlets	LA, GS
NR14-095	492668	5182460	397	Diabase	Fine	Granite Gneiss	None visible	Kspar (GRGN)	LA, GS
NR14-096	492509	5182270	410	Granodiorite Gneiss	Medium	-	None visible	Kspar	LA, GS
NR14-097	492286	5182349	412	Granite Gneiss	Coarse	Diabase	None visible	Kspar (GRGN)	LA, GS
NR14-098	491988	5182307	421	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-099	491722	5182183	442	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, CP
NR14-100	491679	5182210	429	Diabase	Fine	Granite Gneiss	None visible	Kspar (GRGN); carb veinlets? (DIA)	LA, CP
NR14-101	491504	5182296	430	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, CP

Outcrop Station	Easting	Northing	Elevation	Major Rock	Grain Size	Minor Rock	Mineralization	Alteration	Team
NR14-102	491551	5182501	440	Diabase	Fine	Granodiorite Gneiss	None visible	Kspar (GDGN)	LA, CP
NR14-103	491659	5182411	426	Granite Gneiss	Medium-Coarse	Diabase	None visible	Kspar (GRGN)	LA, CP
NR14-104	492800	5182212	403	Granodiorite Gneiss	Medium	SUBX?	None visible	Kspar	LA, GS
NR14-105	492794	5182346	391	Granodiorite Gneiss	Medium	-	None visible	Kspar	LA, GS
NR14-106	492792	5182564	391	Granodiorite Gneiss	Medium	-	None visible	Kspar	LA, GS
NR14-107	492834	5182682	390	Diabase	Fine	-	Trace Py	Surface oxidation	LA, GS
NR14-108	492807	5182730	401	Granodiorite Gneiss	Medium-Coarse	-	None visible	Minor kspar	LA, GS
NR14-109	492847	5182878	403	Granodiorite Gneiss	Medium-Coarse	-	None visible	Minor kspar, surface oxidation	LA, GS
NR14-110	492977	5182971	392	Granodiorite Gneiss	Coarse	-	None visible	Kspar	LA, GS
NR14-111	493171	5182973	409	Granodiorite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-112	493372	5182954	401	Granodiorite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-113	493652	5182865	388	Granodiorite Gneiss	Medium	-	None visible	Kspar	LA, GS
NR14-114	493917	5182804	393	Granodiorite Gneiss	Medium	-	None visible	Kspar	LA, GS
NR14-115	493849	5182609	388	Granite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-116	493738	5182571	389	Granodiorite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-117	493609	5182581	393	Granodiorite Gneiss	Medium	-	None visible	Kspar	LA, GS
NR14-118	493549	5182456	399	Diabase	Fine	-	None visible	Carb (?) veinlets	LA, GS
NR14-119	493649	5182426	401	Granodiorite Gneiss	Medium	-	None visible	Kspar	LA, GS
NR14-120	493649	5182389	406	Diabase	Fine	-	Trace Py	-	LA, GS
NR14-121	493766	5182293	376	Granodiorite Gneiss	Medium	-	None visible	Kspar	LA, GS
NR14-122	493893	5182022	391	Diabase	Fine	Granodiorite Gneiss	None visible	-	LA, GS
NR14-123	493720	5182164	390	Granodiorite Gneiss	Medium-Coarse	-	None visible	Kspar, minor epidote	LA, GS

Outcrop Station	Easting	Northing	Elevation	Major Rock	Grain Size	Minor Rock	Mineralization	Alteration	Team
NR14-124	493506	5182373	407	Granodiorite Gneiss	Medium	-	None visible	Kspar	LA, GS
NR14-125	493421	5182469	403	Diabase	Fine	-	None visible	Minor surface oxidation	LA, GS
NR14-126	493332	5182515	411	Granodiorite Gneiss	Medium	-	None visible	Kspar	LA, GS
NR14-127	493102	5182655	394	Granodiorite Gneiss	Medium-Coarse	-	None visible	-	LA, GS
NR14-128	493027	5182503	383	Granodiorite Gneiss	Medium-Coarse	-	None visible	Kspar	LA, GS
NR14-129	493021	5182366	382	Diabase	Fine	-	None visible	Epidote, chlorite (?) veinlets	LA, GS
NR14-130	492955	5182212	405	Granodiorite Gneiss	Medium	-	None visible	Kspar, epidote	LA, GS

Table 6: Detailed Grab Sample Descriptions

Outcrop Station	Sample Number	Easting	Northing	Elevation	Major Rock Type	Mineralization	Grain Size	Alteration	Description
NR14-003	NR14-003-001	496012	5183028	366	Diabase	~1% Po + Py	Fine-Medium	Surface oxidation	Fine-grained to medium-grained, dark grey-black, massive, weakly magnetic. ~1% blebby to disseminated pyrite + pyrrhotite.
NR14-015	NR14-015-001	496590	5182753	364	SUBX	Trace Py	Fine-Coarse	Minor kspar	SUBX matrix is mostly aphanitic with local recrystallized blebs, dark green-grey, ~30% rounded GDGN clasts. Trace disseminated to blebby Py in matrix and clasts.
NR14-020	NR14-020-001	497170	5181970	375	SUBX	Trace Py	Fine-Medium	None	SUBX matrix is fine-grained, slightly recrystallized, dark grey-black, ~30% GDGN clasts. Trace disseminated to blebby Py and matrix and clasts.

APPENDIX C: ASSAY RESULTS AND CERTIFICATES

SGS

Certificate of Analysis

Work Order : SU1401331

[Report File No.: 0000002736]

To: **Chantal Jolette**
KGHM International Ltd.
1300 KELLY LAKE ROAD
SUDBURY ON P3E 5P4

Date: Dec 05, 2014

P.O. No.	:	47150EX.7305/NR2014-01
Project No.	:	NORTH-RANG
No. Of Samples	:	3
Date Submitted	:	Nov 12, 2014
Report Comprises	:	Pages 1 to 6 (Inclusive of Cover Sheet)

Distribution of unused material:
To be Disposed: w/ -1332,-1356
Comments:

Preparation of samples was performed at the SGS Sudbury site

Certified By : Sarah Thyret-Auban
Sarah Thyret
Project Coordinator

SGS Minerals Services (Lakefield) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	–	= No result

*INF = Composition of this sample makes detection impossible by this method
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion
Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods

SGS

Final : SU1401331 Order: 47150EX.7305/NR2014-01

Report File No.: 0000002736

Element	WtKg	@Au	@Pt	@Pd	@Ag	@Al	@As	@Ba
Method	G_WGH79	GO_FAI303	GO_FAI303	GO_FAI303	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B
Det.Lim.	0.001	0.03	0.03	0.03	2	0.01	3	1
Units	kg	g/t	g/t	g/t	ppm	%	ppm	ppm
N986516	1.449	<0.03	<0.03	<0.03	<2	6.58	12	56
N986517	1.342	<0.03	<0.03	<0.03	<2	6.56	14	326
N986518	0.877	<0.03	<0.03	<0.03	<2	6.85	14	411
*Rep N986516					<2	6.60	14	55
*Rep N986517		<0.03	<0.03	<0.03				

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Element	@Be	@Bi	@Ca	@Cd	@Co	@Cr	@Cu	@Fe
Method	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B
Det.Lim.	0.5	5	0.01	1	1	1	0.5	0.01
Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%
N986516	<0.5	13	5.17	<1	56	115	184	7.42
N986517	0.8	12	3.08	<1	13	39	35.7	4.83
N986518	0.7	19	4.41	<1	27	43	134	7.43
*Rep N986516	<0.5	13	5.10	<1	54	112	181	7.41

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Element	@K	@La	@Li	@Mg	@Mn	@Mo	@Na	@Ni
Method	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B
Det.Lim.	0.01	0.5	1	0.01	2	1	0.01	1
Units	%	ppm	ppm	%	ppm	ppm	%	ppm
N986516	0.29	5.5	8	3.33	1350	3	2.38	70
N986517	0.74	73.6	18	1.55	694	4	2.04	22
N986518	1.62	25.8	12	2.12	1180	3	1.61	31
*Rep N986516	0.29	5.4	8	3.31	1360	3	2.34	69

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Report File No.: 0000002736

Element	@P	@Pb	@S	@Sb	@Sc	@Sn	@Sr	@Ti
Method	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B
Det.Lim.	0.01	2	0.01	5	0.5	10	0.5	0.01
Units	%	ppm	%	ppm	ppm	ppm	ppm	%
N986516	0.03	5	0.27	<5	43.5	<10	194	0.50
N986517	0.06	5	0.06	<5	18.0	<10	261	0.45
N986518	0.08	6	0.15	<5	29.4	<10	364	0.75
*Rep N986516	0.03	4	0.28	<5	43.1	<10	189	0.49

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Element	@V	@W	@Y	@Zn	@Zr
Method	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B	GE_ICP40B
Det.Lim.	2	10	0.5	1	0.5
Units	ppm	ppm	ppm	ppm	ppm
N986516	240	<10	18.5	98	33.4
N986517	140	<10	24.9	74	142
N986518	367	<10	26.3	110	107
*Rep N986516	229	<10	17.7	96	34.9