## ASSESSMENT REPORT ON THE TRILL PROPERTY

 TOTTEN, HYMAN, ERMATINGER AND TRILL TOWNSHIPS, SUDBURY, ONTARIODecember 11, 2014
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## 1. SUMMARY

The Trill Property is located approximately 40 to 45 kilometres west of Sudbury and 25 km northwest of the Town of Whitefish. The Property is accessible by road and, within the grid area, by ATV trails.

The Trill Property is located on the North Range of the SIC; the east boundary of the Property is located 200 to 800 metres from the west end of the SIC contact, in the brecciated footwall. The Property is underlain by Archean granites and gneisses, post-Archean Matachewan diabase, Nipissing diabase, olivine diabase, and Sudbury Breccia.

This report summarizes work completed from October 1, 2013 to September 31, 2014. In this time period, the following work was completed:

1) Mapping and Sampling- a total of 355 samples were sent for 48 element and PGE analysis and 16 samples were sent for whole rock analysis.
2) Trenching: Tate's Construction excavated land in order to expose outcrops.
3) Line cutting: Daniel Gauthier Exploration was contracted to cut a total of 39.875 km .
4) Geophysics: Lamontagne was contracted to perform a Surface UTEM5 survey, as well as eight Borehole EM surveys.
5) DGPS: Canadian Exploration Services Ltd. was contracted to DGPS survey the geophysical loops.
6) Geophysical consulting: Alan King reviewed surface UTEM5 and Borehole EM data.
7) Thin Sections: Vancouver Petrographics prepared thin sections from field and core samples.
8) Gyroscope: Halliburton performed downhole gyroscope surveys.
9) Road building and maintenance: William Day Construction, Carlyle Construction, and Tate's Constructions built roads and drill pads.
10) Diamond Drilling: Jacob and Samuel were contracted to drill eleven diamond drill holes.

## 2. PROPERTY DESCRIPTION AND LOCATION

The Trill Property is located approximately 40 to 45 kilometres west of Sudbury and 25 km northwest of the Town of Whitefish (Figure 1). The Property extends along the north-south length of Trill Township along its western border, and covers a large part of Totten Township. It also extends into Hyman and Ermatinger Townships. It consists of:

1) Thirty-nine, $100 \%$ Wallbridge Mining Company Limited ("Wallbridge") owned, unpatented claims in the Sudbury Mining Division totalling 8176 ha (Figure 2, Error! Reference source not found.). Expiry dates for the claims range from July 25, 2015 to October 29, 2017.
2) A patented claim adjacent on the east side of claim S1229977 (Figure 2) in the southeast $1 / 4$ of lot 11 Concession 2, Trill Township (Mining Rights Only parcel 31563 SWS, claim number S 12594). The patented claim adds another 2 claim units and 43 ha to the Property size (Error! Reference source not found.).
3) There is a mining lease on claim S1167121 that is 258.3 ha in size (Table 1).

## 3. ACCESSIBILITY

The Trill Property is accessible by road and, within the grid area, by ATV trails. It can be accessed from the north by taking Old Cartier Road from Highway 144 at Windy Lake and travelling west and south through Cascaden Township. From the south, it is accessed by taking Highway 17 for 31 km west from Sudbury to the Worthington Road (also known as the old Hwy 17 and Hwy 658) turnoff, just past the Town of Whitefish. From there, proceed westward along the Worthington Road for a distance of about 10 km , and then follow the Fairbanks Lake Road 5.5 km north to the Chicago Mine Road turnoff. Follow the Chicago Mine Road west and north for approximately 10 km to reach the south end of the Property at the Drury-Trill Township boundary. The Chicago Mine Road traverses claim S1229501 and passes approximately 200 to 500 m east of the eastern boundary of the Property.


Figure 1: Property Location.

Table 1: Trill property status as of December 11, 2014

| number | township | area <br> (ha) | holder | recorded <br> date | work due <br> date | Work required \$ | Work reserve \$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1167119 | Totten | 256 | WMCL | 37187 | 23-Oct-2001 | 23-Oct-2016 | 0 |
| 1167120 | Totten | 256 | WMCL | 37187 | 23-Oct-2001 | 23-Oct-2016 | 0 |
| 1229363 | Trill | 256 | WMCL | 36097 | 29-Oct-1998 | 29-Oct-2017 | 0 |
| 1229501 | Trill | 80 | WMCL | 35969 | 23-Jun-1998 | 23-Jun-2016 | 0 |
| 1229502 | Trill | 176 | WMCL | 35969 | 23-Jun-1998 | 23-Jun-2017 | 0 |
| 1229503 | Trill | 160 | WMCL | 35969 | 23-Jun-1998 | 23-Jun-2017 | 0 |
| 1229948 | Trill | 256 | WMCL | 36577 | 21-Feb-2000 | 21-Feb-2016 | 26795 |


| 1229976 | Trill | 240 | WMCL | 35829 | 03-Feb-1998 | 03-Feb-2017 | 178485 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1229977 | Trill | 256 | WMCL | 35829 | 03-Feb-1998 | 03-Feb-2017 | 0 |
| 1230737 | Trill | 96 | WMCL | 36577 | 21-Feb-2000 | 21-Feb-2017 | 0 |
| 1241793 | Trill | 48 | WMCL | 36615 | 30-Mar-2000 | 30-Mar-2016 | 0 |
| 1246135 | Trill | 48 | WMCL | 37425 | 18-Jun-2002 | 18-Jun-2016 | 0 |
| 3009381 | Totten | 96 | WMCL | 38142 | 04-Jun-2004 | 04-Jun-2016 | 0 |
| 3009482 | Totten | 256 | WMCL | 38142 | 04-Jun-2004 | 04-Jun-2016 | 81019 |
| 3009483 | Totten | 256 | WMCL | 38142 | 04-Jun-2004 | 04-Jun-2016 | 0 |
| 3009484 | Totten | 256 | WMCL | 38142 | 04-Jun-2004 | 04-Jun-2016 | 13296 |
| 3017386 | Totten | 32 | WMCL | 38540 | 07-Jul-2005 | 07-Jul-2016 | 0 |
| 3017425 | Totten | 32 | WMCL | 38540 | 07-Jul-2005 | 07-Jul-2016 | 0 |
| 3018802 | Totten | 256 | WMCL | 38558 | 25-Jul-2005 | 25-Jul-2015 | 0 |
| 3018803 | Totten | 256 | WMCL | 38558 | 25-Jul-2005 | 25-Jul-2015 | 0 |
| 3018804 | Totten | 256 | WMCL | 38558 | 25-Jul-2005 | 25-Jul-2016 | 0 |
| 3018805 | Totten | 256 | WMCL | 38558 | 25-Jul-2005 | 25-Jul-2016 | 0 |
| 3018806 | Totten | 256 | WMCL | 38558 | 25-Jul-2005 | 25-Jul-2016 | 0 |
| 3018807 | Totten | 256 | WMCL | 38558 | 25-Jul-2005 | 25-Jul-2015 | 0 |
| 3018808 | Totten | 256 | WMCL | 38558 | 25-Jul-2005 | 25-Jul-2016 | 0 |
| 3018809 | Totten | 256 | WMCL | 38558 | 25-Jul-2005 | 25-Jul-2016 | 0 |
| 3018810 | Totten | 256 | WMCL | 38558 | 25-Jul-2005 | 25-Jul-2015 | 0 |
| 3018811 | Totten | 208 | WMCL | 38558 | 25-Jul-2005 | 25-Jul-2016 | 0 |
| 3018844 | Totten | 256 | WMCL | 38558 | 25-Jul-2005 | 25-Jul-2016 | 0 |
| 3018845 | Totten | 224 | WMCL | 38541 | 08-Jul-2005 | 08-Jul-2016 | 1386 |
| 3018847 | Totten | 256 | WMCL | 38541 | 08-Jul-2005 | 08-Jul-2016 | 0 |
| 3018848 | Totten | 256 | WMCL | 38541 | 08-Jul-2005 | 08-Jul-2016 | 0 |
| 3018849 | Totten | 256 | WMCL | 38558 | 25-Jul-2005 | 25-Jul-2015 | 0 |
| 3018850 | Totten | 256 | WMCL | 38558 | 25-Jul-2005 | 25-Jul-2015 | 0 |
| 4207192 | Ermatinger | 128 | WMCL | 38497 | 25-May-2005 | 25-May-2016 | 0 |
| 4207193 | Ermatinger | 256 | WMCL | 38497 | 25-May-2005 | 25-May-2016 | 0 |
| 4207194 | Ermatinger | 128 | WMCL | 38497 | 25-May-2005 | 25-May-2016 | 0 |
| 4207195 | Totten | 256 | WMCL | 38497 | 25-May-2005 | 25-May-2016 | 0 |
| 4207196 | Totten | 256 | WMCL | 38497 | 25-May-2005 | 25-May-2016 | 0 |
| 4207198 | Totten | 64 | WMCL | 38497 | 25-May-2005 | 25-May-2016 | 1792 |
|  | Totals | 8176 |  |  |  | 197600 | 302773 |
| mining lease: |  |  |  |  |  |  |  |
| PIN \# | township | area <br> (ha) | rights held | holder | renewal date | $\begin{gathered} \text { lease } \\ \text { number } \end{gathered}$ | work reserve |
| 73363- | Totten | 258.23 | MSR | WMCL | 12-Nov-2030 | 108405 | 816221 |


| 0003 |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| patent: |  |  |  |  |  |  |  |
| PIN \# | township | area <br> (ha) | rights <br> held | Holder |  |  |  |
| 73365- <br> $\mathbf{0 2 1 2}$ | Trill | 42.99 | MRO | WMCL |  |  |  |



Figure 2: Property Map.

## 4. GEOLOGICAL SETTING

### 4.1. REGIONAL GEOLOGIC SETTING

The Sudbury area hosts one of the most prolific Ni-Cu-PGE mining camps in the world. Sudbury geology is unique - the ore deposits are associated with the Sudbury Igneous Complex (SIC) and related rocks, which record what is generally accepted as a major, midProterozoic meteorite impact event, which occurred 1.85 billion years ago (Ga). Despite over one hundred years of academic and industry scrutiny, many aspects of Sudbury ore deposits geology are still hotly disputed and significant new discoveries continue to be made.

Current exploration focuses on the SIC and related footwall rocks. The Sudbury Structure is located at the junction of the Superior and Southern Provinces of the Canadian Shield. The Superior Province is of Archean age, about 2.7 Ga in the Sudbury area. Paleoproterozoic sedimentary and volcanic rocks of the Huronian Supergroup were then deposited unconformably on Archean basement in an elongate belt and were subsequently intruded by sill-like Nipissing gabbros. After metamorphism and folding during the Penokean Orogeny, this belt formed the Southern Province along the southern margin of the Superior Province. At $\sim 1.85 \mathrm{Ga}$, the SIC was superimposed on Archean and Huronian rocks. The SIC is located about 10 km north of the $\sim 1 \mathrm{Ga}$ Grenville Front.

The SIC consists of a discontinuous, variably mineralized, basal Sublayer unit lying along the crater wall, offset dykes intruded for up to tens of kilometres into the underlying brecciated country rocks, and the overlying so-called Main Mass units of Mafic Norite, Felsic Norite, Quartz Gabbro, and Granophyre. The formation of the SIC as a superheated meteorite impact melt sheet that was heavily contaminated by crustal rocks is strongly supported by contemporary research although other theories have been postulated in the past. At its base, the SIC intrudes brecciated rocks of the crater wall. At its top, the SIC intrudes the Onaping Formation of the Whitewater Group.

The present geometry of the SIC is the result of northwest directed tectonic shortening accommodated along regional folds, shear zones, and faults that developed during the Penokean Orogeny between 1.9 and 1.65 Ga . Deformation steepened the South Range, which was thrust northward along the South Range Shear Zone, and the East Range of the SIC, which buckled, accumulating strain along a complex series of folds and faults.

One of the world's greatest concentrations of Ni-Cu-Co-PGE mineralization occurs associated with the Sudbury Structure. Sulphide deposits occur in three distinct geological environments: (1) contact Sublayer, (2) Offset Dykes and (3) brecciated footwall.

### 4.2. PROPERTY GEOLOGY

### 4.2.1. GENERAL

The Trill Property is located on the North Range of the SIC; the east boundary of the Property is located 200 to 800 metres from the west end of the SIC contact, in the brecciated footwall (Figure 3). The Property is underlain by Archean granites and gneisses, post-Archean Matachewan diabase, Nipissing diabase, and olivine diabase dykes, as well as Sudbury Breccia.

The oldest rocks in the Property are monzogranitic and tonalitic gneisses, with lesser amounts of intermediate and mafic gneisses of the Archean Levack Gneiss Complex (2700-2640 Ma) found around Armstrong Lake and East Totten Lake in the northern part of the Property. These gneisses are intruded by slightly deformed, felsic to intermediate granitoid rocks of the Cartier Batholith ( 2640 Ma ). Matachewan Diabase dykes ( 2473 Ma ) and Sudbury Swarm Olivine Diabase dykes (1240 Ma) cut both the granites and gneisses (Figure 4).


Figure 3: Regional Geology, adapted from Ames, Davidson, Buckle and Card (2005).


Figure 4: Property Geology.

Occurrences of Sudbury Breccia are classified using an alphanumeric scheme that describes clast and matrix compositions, and quantifies the degree of thermal and/or metasomatic recrystallization and alteration to which the breccias have been subjected. The degree of recrystallization on the Property ranges from 3 to 5 , with 5 being the most common. Heat indices of 3 occur in the south-central and northeast breccia belts, other areas east of Ministic Creek have heat indices of 4 or 5 , and 5 west of Ministic Creek. Trace pyrite is found in approximately $50 \%$ of breccia samples; it occurs in both the clasts and matrix. The pyrite was likely derived from the comminuted wall rocks that contain pyrite.

### 4.2.2. GEOLOGY OF THE TRILL OFFSET AREA

The most economically important rock type of the area is quartz diorite, of which all offset dykes of the SIC are composed. Outcrops of this rock type were mapped for the first time on the Property during the fall of 2004. Only a small amount was exposed on the Property at that time. Its exposure has been increased by trenching and stripping and the discovery of new outcrops. The dyke has been traced over an east-west distance of 1.85 km , centred on the discovery showing. The rock comprises euhedral plagioclase and amphibole, with minor amounts of biotite, titanite, apatite, and characteristic, granophyric intergrowths of quartz and feldspar. Xenoliths of various rock types, including amphibolite, anorthosite, and granite are found in some parts of the dyke, especially near mineralization in which case this rock type is called inclusion quartz diorite (IQD). On the outer extents of the QD corridor there are cm scale glassy or spherulitic textured quartz diorite dykes that do not have the typical QD textures but are comprised of devitrified glass; however, they have a similar lithogeochemical signature to the QD and are hereafter referred to as spherulitic quartz diorite (SQD) by Wallbridge. In 2007, a Sudbury Breccia-like variation of the IQD was discovered. This IQD generally has smaller but more plentiful inclusions of granitoids, gabbro-anorthosite, and quartz diorite, and is bound by quartz diorite with resorbed granitic clasts and amphibole rimmed quartz grains. This version of inclusion quartz diorite is not associated with massive
mineralization. The offset dyke generally trends east-west, but is cut in several places by crosscutting faults which may displace it by several tens of metres.

## 5. EXPLORATION

### 5.1. MAPPING AND TRENCHING

In September and October of 2013, mechanical stripping in the Eastern part of Trill was performed. Eleven days were spent by Tate's Construction, excavating two trenches on claim 1229977 (Figure 5). The sites are referred to as Trench \#2 (Figure 6) and Trench \#1 (Figure 7). The outcrops were then washed by technicians, Kevin Dutchburn and Jesse Bagnell and mapped by Geologist, Györgyi Tuba. This work exposed $\mathrm{Cu}-\mathrm{Ni}-\mathrm{PGE}$ sulfide mineralization hosted by a chaotic mixing zone of QD and Sudbury breccia on Trench \#2 The sulfides (pyrrhotite, chalcopyrite, pyrite and millerite in order of abundance) occur as irregular, massive veinlets up to 10 cm in width, and as lenses, blebs, disseminations hosted by QD, Sudbury breccia and the host granite. Trench \#1 was less interesting, therefore, only the lithologies were mapped. All samples taken from the trenches are in table 2. Any sample in table two that has "channel" under sample type was been taken from trench \#2.

FGN= Felsic Gneiss, Dia= Diabase, Po= Pyrrhotite, Py=Pyrite, Cpy= Chalcopyrite, QTZ= Quartz, Fg=Fine grained, STD=Standard, BLK=Blank.

| Location | Sample <br> ID | E NAD27 | N NAD27 | $\frac{\text { Sample }}{\text { Type }}$ | $\frac{\text { Length }}{(\mathrm{m})}$ | Geologist | $\begin{gathered} \text { Date } \\ \text { Sampled } \end{gathered}$ | $\begin{aligned} & \text { Rock } \\ & \hline \text { Type } \end{aligned}$ | Field Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TRILL | N984163 | 458355.1351 | 5146708.459 | CHANNEL |  | AP | 9/10/2013 | IQD | Channel 1, IQD with bleby po in matrix |
| TRILL | N984164 | 458353.2797 | 5146708.399 | CHANNEL |  | AP | 9/10/2013 | IQD | Channel 2, IQD with bleby po in matrix |
| TRILL | N984165 | 458357.0647 | 5146701.87 | CHANNEL |  | AP | 9/10/2013 | IQD | Channel 3, py-cpy vein ( $\sim 1 \mathrm{~cm}$ width) cutting IQD |
| TRILL | N984166 | 458338.511 | 5146710.469 | CHANNEL |  | AP | 9/10/2013 | GR | Channel 4, py-po-cpy bearing hydrothermal vein cutting SDBX and GR |
| TRILL | N984167 | 458341.6527 | 5146711.158 | CHANNEL |  | AP | 9/10/2013 | GR | Channel 5, py-po-cpy bearing hydrothermal vein cutting GR |
| TRILL | N984168 | 458341.9908 | 5146707.049 | CHANNEL |  | AP | 9/10/2013 | GR | Channel 6, py-po-cpy bearing hydrothermal vein cutting GR |
| TRILL | N984169 |  |  | STD |  |  |  |  |  |
| TRILL | N984170 |  |  | BLK |  |  |  |  |  |
| TRILL | N984171 | 458347.961 | 5146716.007 | CHANNEL | 0.16 | AP | 15/10/2013 | GR | Channel A, Brick sample, po-cpy-py (2 cm ) bearing vein cutting $G R$ |
| TRILL | N984172 | 458363.1833 | 5146753.659 | GRAB |  | AP | 31/10/2013 | SDBX | Regional (?) pervasive epidote alteration with disseminated py-cpy |
| TRILL | N984173 | 458366.1684 | 5146737.523 | GRAB |  | AP | 31/10/2013 | GR | Po-cpy vein/lens in GR next to IQD contact |
| TRILL | N984174 | 458364.8407 | 5146743.192 | GRAB |  | AP | 31/10/2013 | IQD | BI-diss po-cpy in IQD near contact with SDBX |
| TRILL | N984175 | 458354.6898 | 5146726.695 | CHANNEL | 0.85 | AP | 4/11/2013 | GR | Channel B, Cpy-po veinlets, blebs in GR, channel cut is oriented 40-220 |
| TRILL | N984176 | 458354.0878 | 5146725.935 | CHANNEL | 0.71 | AP | 4/11/2013 | GR | Channel C, Sulfide lens in GR, channel cut is oriented 40-220 |
| TRILL | N984177 | 458356.6689 | 5146725.165 | CHANNEL | 0.41 | AP | 4/11/2013 | IQD | Channel D, Sulfide-qtz vein going 272, channel cut is oriented 160-340 |
| TRILL | N984178 | 458355.6711 | 5146723.846 | CHANNEL | 0.39 | AP | 4/11/2013 | IQD | Channel E , Massive sulfide vein going ~320, channel cut is oriented 78-258 |
| TRILL | N984179 | 458355.4072 | 5146723.276 | CHANNEL | 0.75 | AP | 4/11/2013 |  | Channel F-1, channel cut is oriented N-S, total length is 4.93 m |
| TRILL | N984180 | 458355.4649 | 5146722.616 | CHANNEL | 0.6 | AP | 4/11/2013 |  | Channel F-2 |
| TRILL | N984181 | 458355.5062 | 5146721.916 | CHANNEL | 0.78 | AP | 4/11/2013 |  | Channel F-3 |


| Location | Sample ID | E NAD27 | N NAD27 | Sample <br> Type | $\frac{\text { Length }}{(\mathrm{m})}$ | Geologist | $\begin{gathered} \text { Date } \\ \text { Sampled } \end{gathered}$ | $\frac{\text { Rock }}{\text { Type }}$ | Field Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TRILL | N984182 | 458355.5639 | 5146721.026 | CHANNEL | 0.95 | AP | 4/11/2013 |  | Channel F-4 |
| TRILL | N984183 | 458355.6216 | 5146720.266 | CHANNEL | 0.55 | AP | 4/11/2013 |  | Channel F-5 |
| TRILL | N984184 | 458355.6628 | 5146719.687 | CHANNEL | 0.62 | AP | 4/11/2013 |  | Channel F-6 |
| TRILL | N984185 | 458355.7041 | 5146719.017 | CHANNEL | 0.7 | AP | 4/11/2013 |  | Channel F-7 |
| TRILL | N984186 |  |  | STD |  | AP | 4/11/2013 |  |  |
| TRILL | N984187 |  |  | BLK |  | AP | 4/11/2013 |  |  |
| TRILL | N984188 | 458362.0041 | 5146701.32 | CHANNEL | 0.16 | AP | 4/11/2013 | IQD | Channel G, py vein in IQD going 145/45 |
| TRILL | N984189 | 458354.9537 | 5146702.58 | CHANNEL | 0.9 | AP | 4/11/2013 |  | Channel $\mathrm{H}-1$, channel cut is oriented $\mathrm{N}-\mathrm{S}$, total length is $20 . \mathrm{Hm}$ |
| TRILL | N984190 | 458354.8382 | 5146703.53 | CHANNEL | 1 | AP | 4/11/2013 |  | Channel H-2 |
| TRILL | N984191 | 458354.731 | 5146704.45 | CHANNEL | 0.94 | AP | 4/11/2013 |  | Channel H-3 |
| TRILL | N984192 | 458354.6321 | 5146705.39 | CHANNEL | 0.9 | AP | 4/11/2013 |  | Channel H-4 |
| TRILL | N984193 | 458354.5166 | 5146706.349 | CHANNEL | 1 | AP | 4/11/2013 |  | Channel H-6 |
| TRILL | N984194 | 458354.4094 | 5146707.289 | CHANNEL | 0.89 | AP | 4/11/2013 |  | Channel H-7 |
| TRILL | N984195 | 458354.294 | 5146708.319 | CHANNEL | 1.15 | AP | 4/11/2013 |  | Channel H-8 |
| TRILL | N984196 | 458354.1703 | 5146709.369 | CHANNEL | 1.01 | AP | 4/11/2013 |  | Channel H-9 |
| TRILL | N984197 | 458354.0796 | 5146710.299 | CHANNEL | 0.88 | AP | 4/11/2013 |  | Channel H-10 |
| TRILL | N984198 | 458353.9641 | 5146711.268 | CHANNEL | 0.97 | AP | 4/11/2013 |  | Channel H-11 |
| TRILL | N984199 | 458353.8569 | 5146712.308 | CHANNEL | 1.1 | AP | 4/11/2013 |  | Channel H-12 |
| TRILL | N984200 | 458353.7332 | 5146713.278 | CHANNEL | 1.02 | AP | 4/11/2013 |  | Channel H-13 |
| TRILL | N985501 | 458353.6178 | 5146714.338 | CHANNEL | 0.97 | AP | 5/11/2013 |  | Channel H-14 |


| Location | $\frac{\text { Sample }}{\underline{I D}}$ | E NAD27 | N NAD27 | $\frac{\text { Sample }}{\text { Type }}$ | $\frac{\text { Length }}{(\mathrm{m})}$ | Geologist | $\begin{gathered} \text { Date } \\ \underline{\text { Sampled }} \end{gathered}$ | $\frac{\text { Rock }}{\text { Type }}$ | Field Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TRILL | N985502 | 458353.5188 | 5146715.218 | CHANNEL | 0.95 | AP | 5/11/2013 |  | Channel H-15 |
| TRILL | N985503 | 458353.3952 | 5146716.307 | CHANNEL | 1.11 | AP | 5/11/2013 |  | Channel H-16 |
| TRILL | N985504 | 458353.3045 | 5146717.177 | CHANNEL | 0.78 | AP | 5/11/2013 |  | Channel H-17 |
| TRILL | N985505 | 458353.222 | 5146717.887 | CHANNEL | 0.52 | AP | 5/11/2013 |  | Channel H-18 |
| TRILL | N985506 | 458353.156 | 5146718.427 | CHANNEL | 0.63 | AP | 5/11/2013 |  | Channel H-19 |
| TRILL | N985507 | 458353.0818 | 5146719.097 | CHANNEL | 0.58 | AP | 5/11/2013 |  | Channel H-20 |
| TRILL | N985508 | 458353.0158 | 5146719.627 | CHANNEL | 0.52 | AP | 5/11/2013 |  | Channel H-21 |
| TRILL | N985509 | 458352.9911 | 5146720.176 | CHANNEL | 0.5 | AP | 5/11/2013 |  | Channel H-22 |
| TRILL | N985510 | 458352.8427 | 5146721.136 | CHANNEL | 1.01 | AP | 5/11/2013 |  | Channel H-23 |
| TRILL | N985511 | 458358.1614 | 5146713.958 | CHANNEL | 0.93 | AP | 5/11/2013 |  | Channel I-1, channel cut is oriented $\mathrm{N}-\mathrm{S}$, total length is 14.9 m |
| TRILL | N985512 | 458358.0212 | 5146714.858 | CHANNEL | 0.96 | AP | 5/11/2013 |  | Channel I-2 |
| TRILL | N985513 | 458357.914 | 5146715.737 | CHANNEL | 0.78 | AP | 5/11/2013 |  | Channel I-3 |
| TRILL | N985514 |  |  | CHANNEL | 0.8 | AP | 5/11/2013 |  | Channel H-5 |
| TRILL | N985515 | 458362.9441 | 5146721.686 | GRAB |  | AP | 5/11/2013 |  | Ep-carb alteration (veins and vugs) in IQD with associated disseminated cpy |
| TRILL | N985516 |  |  | STD |  | AP | 5/11/2013 |  |  |
| TRILL | N985517 |  |  | BLK |  | AP | 5/11/2013 |  |  |
| TRILL | N985518 | 458357.7738 | 5146716.597 | CHANNEL | 0.98 | GyT | 11/11/2013 |  | Channel I-4 |
| TRILL | N985519 | 458357.6501 | 5146717.447 | CHANNEL | 0.73 | GyT | 11/11/2013 |  | Channel I-5 |
| TRILL | N985520 | 458357.5347 | 5146718.287 | CHANNEL | 0.92 | GyT | 11/11/2013 |  | Channel I-6 |
| TRILL | N985521 | 458357.4028 | 5146719.167 | CHANNEL | 0.94 | GyT | 11/11/2013 |  | Channel I-7 |


| Location | Sample <br> ID | E NAD27 | N NAD27 | $\frac{\text { Sample }}{\text { Type }}$ | $\frac{\text { Length }}{(\mathrm{m})}$ | Geologist | $\begin{gathered} \text { Date } \\ \text { Sampled } \end{gathered}$ | Rock <br> Type | Field Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TRILL | N985522 | 458357.2791 | 5146720.017 | CHANNEL | 0.7 | GyT | 11/11/2013 |  | Channell-8 |
| TRILL | N985523 | 458357.1801 | 5146720.696 | CHANNEL | 0.7 | GyT | 11/11/2013 |  | Channell-9 |
| TRILL | N985524 | 458357.0399 | 5146721.626 | CHANNEL | 0.96 | GyT | 11/11/2013 |  | Channel I-10 |
| TRILL | N985525 | 458356.941 | 5146722.316 | CHANNEL | 0.63 | GyT | 11/11/2013 |  | Channell-11 |
| TRILL | N985526 | 458356.8255 | 5146723.126 | CHANNEL | 0.92 | GyT | 11/11/2013 |  | Channell-12 |
| TRILL | N985527 | 458356.6854 | 5146724.086 | CHANNEL | 1.1 | GyT | 11/11/2013 |  | Channell-13 |
| TRILL | N985528 | 458356.5452 | 5146725.105 | CHANNEL | 0.83 | GyT | 11/11/2013 |  | Channel I-14 |
| TRILL | N985529 | 458356.4462 | 5146725.755 | CHANNEL | 0.47 | GyT | 11/11/2013 |  | Channel l-15 |
| TRILL | N985530 | 458356.372 | 5146726.225 | CHANNEL | 0.5 | GyT | 11/11/2013 |  | Channell-16 |
| TRILL | N985531 | 458356.306 | 5146726.635 | CHANNEL | 0.32 | GyT | 11/11/2013 |  | Channel l-17 |
| TRILL | N985532 | 458356.2318 | 5146727.185 | CHANNEL | 0.7 | GyT | 11/11/2013 |  | Channell-18 |
| TRILL | N985533 | 458357.8233 | 5146726.255 | CHANNEL | 0.6 | GyT | 11/11/2013 |  | Channel J-1, channel cut oriented 340-160, total length is ca. 3.8 m |
| TRILL | N985534 | 458357.914 | 5146725.575 | CHANNEL | 0.72 | GyT | 11/11/2013 |  | Channel J-2 |
| TRILL | N985535 | 458358.0295 | 5146724.785 | CHANNEL | 0.78 | GyT | 11/11/2013 |  | Channel J-3 |
| TRILL | N985536 | 458358.1367 | 5146724.026 | CHANNEL | 0.78 | GyT | 11/11/2013 |  | Channel J-4 |
| TRILL | N985537 | 458358.2274 | 5146723.276 | CHANNEL | 0.96 | GyT | 11/11/2013 |  | Channel J-5 |
| TRILL | N985538 | 458344.8357 | 5146708.639 | CHANNEL | 0.48 | GyT | 13/11/2013 |  | Channel K, oriented 110-290 |
| TRILL | N985539 |  |  | STD |  | GyT | 13/11/2013 |  |  |
| TRILL | N985540 |  |  | BLK |  | GyT | 13/11/2013 |  |  |
| TRILL | N985541 | 458342.6258 | 5146717.517 | CHANNEL |  | GyT | 13/11/2013 |  | Brick |


| Location | $\frac{\text { Sample }}{\underline{I D}}$ | E NAD27 | N NAD27 | $\frac{\text { Sample }}{\text { Type }}$ | $\frac{\text { Length }}{(\mathrm{m})}$ | Geologist | $\begin{gathered} \text { Date } \\ \text { Sampled } \end{gathered}$ | Rock Type | Field Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TRILL | N985542 | 458365.6241 | 5146741.822 | CHANNEL | 0.6 | GyT | 13/11/2013 |  | Channel L-1 (unable to cut whole length of proposed channel due to topo; only first 1.2 m sampled) |
| TRILL | N985543 | 458365.1706 | 5146742.242 | CHANNEL | 0.6 | GyT | 13/11/2013 |  | Channel L-2 |
| TRILL | N985544 | 458364.6676 | 5146739.502 | CHANNEL | 0.4 | GyT | 13/11/2013 |  | Channel M, oriented E-W |
| TRILL | N985546 | 458366.4652 | 5146739.952 | CHANNEL | 0.6 | GyT | 13/11/2013 |  | Channel N, oriented 140-320 |
| TRILL | N985547 | 458355.1681 | 5146737.233 | CHANNEL | 0.83 | GyT | 13/11/2013 |  | Channel O |
| TRILL | N985548 |  |  | STD |  | GyT | 13/11/2013 |  |  |
| TRILL | N985549 |  |  | BLK |  | GyT | 13/11/2013 |  |  |
| TRILL | N984795 | 458195.83 | 5146678.89 | GRAB |  | AP | 13/08/2013 | IQD | Clast-rich, fine-grained IQD sampled near the intrusive contact with granite, some trace sulfide along joints. No QD on the edge, IQD is directly in contact with GR same as in WTR-044) |
| TRILL | N984796 | 458200.36 | 5146670.93 | GRAB |  | AP | 13/08/2013 | IQD | Clast-poor, fine-grained (I)QD sampled approx. 5-8 m South of the contact with the granite |
| TRILL | N984797 | 458208.34 | 5146663.59 | GRAB |  | AP | 13/08/2013 | IQD | Fine-grained, clast-bearing (not as much as N984795) typical of the outcrop approx. 15 m South of the contact with granite |
| TRILL | N984158 | 458197.47 | 5146674.47 | GRAB |  | AP | 26/09/13 |  | Inclusion in the QD, very rusty and jointed (hard to get fresh surface), appears to be mafic and contain clasts, small belbs of cpy and po |
| TRILL | P446351 | 456696.00 | 5146607.00 | FLOAT |  | GB | 17/07/14 | UNKNOWN | Black, polymictic (?) fissile mafic/clastic rock. Lithology unknown, probably float |
| TRILL | P446352 | 456800.61 | 5146550.75 | GRAB |  | GB | 17/07/14 | QD | Medium grey amphibole-rich fg rock. Variable plagioclase content with local quartz phenocrysts ( $\sim 15 \%$ of rock). 1-5\% disseminated and blebby (to 1 mm ) pyrite. |


| Location | $\frac{\text { Sample }}{\underline{I D}}$ | E NAD27 | N NAD27 | $\frac{\text { Sample }}{\text { Type }}$ | $\frac{\text { Length }}{(\mathrm{m})}$ | Geologist | $\begin{aligned} & \text { Sate } \\ & \text { Sampled } \end{aligned}$ | Rock Type | Field Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TRILL | P446353 | 457490.25 | 5146436.97 | GRAB |  | GB | 18/07/14 | UNKNOWN | Melanocratic intrusive rock. Soft, tan weathering, but very hard (siliceous?) and dark grey to black on fresh. Rock varies from diab texture on and near weathered surfaces to aphanitic and locally glassy on deeper surfac Fresh surfaces have blocky to conchoidal fracture. Trace blebby pyrite present\} |
| TRILL | P446354 | 457554.39 | 5146831.62 | GRAB |  | GB | 21/07/14 | SDBX | SDBX with diabase clasts. ~5\% blebby pyrite with possible trace chalcopyrite |
| TRILL | P446355 | 457527.87 | 5146818.81 | GRAB |  | GB | 21/07/14 | SDBX | SDBX along contact between Monzogranite and diabase. Contains 1-3\% chalcopyrite along and near a fracture oriented perpendicular to the contact. |
| TRILL | P446356 | 457519.15 | 5146766.18 | GRAB |  | GB | 21/07/14 | SDBX | SDBX w/ FGN clasts. $10 \%$ pyrite along fracture or vein |
| TRILL | P446357 | 458333.27 | 5146777.88 | Grab |  | GB | 23/07/14 | SDBX | SDBX with trace to 3\% pyrite and trace chalcopyrite |
| TRILL | P446358 | 458323.92 | 5146758.54 | GRAB |  | GB | 24/07/14 | FGN | Trace to $5 \%$ pyrite in gossanous vein hosted in FGN |
| TRILL | P446359 | 458228.85 | 5147609.72 | GRAB |  | GB | 25/07/14 | UNKNOWN | Unknown lithology. Melanocratic matrix with felsic clasts. $\sim 1 \%$ pyrite. Also contains unidentified black glassy mineral |
| TRILL | P446360 | 457739.75 | 5147903.55 | GRAB |  | GB | 28/07/14 | FGN | FGN with trace to $2 \%$ pyrite with trace chalcopyrite associated with epidote |
| TRILL | P446361 | 457716.85 | 5147859.00 | FLOAT |  | GB | 28/07/14 | SDBX | $1-3 \%$ blebby chalcopyrite in SDBX with diabase clasts. Mineralization is associated with potassium-feldspar and epidote veins |
| TRILL | P446362 | 457715.14 | 5147864.20 | FLOAT |  | GB | 29/07/14 | SDBX | SDBX with trace to $1 \%$ blebby chalcopyrite. CCP occurs in the breccia matrix, as well and both in and rimming felsic clasts |
| TRILL | P446363 | 457708.61 | 5147864.64 | GRAB |  | GB | 29/07/14 | SDBX | SDBX with Trace to $1 \%$ blebby to wispy chalcopyrite with 1-5\% pyrite |
| TRILL | P446365 | 456910.00 | 5147725.00 | FLOAT |  | GB | 1/8/2014 | UNKNOWN | Float. QD? medium grey non-magnetic rock. Contains trace disseminated pyrite |


| Location | $\frac{\text { Sample }}{\text { ID }}$ | E NAD27 | N NAD27 | $\frac{\text { Sample }}{\text { Type }}$ | Length | Geologist | Date Sampled | Rock Type | Field Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TRILL | P446367 | 456267.00 | 5146784.00 | FLOAT |  | GB | 5/8/2014 | UNKNOWN | Float. Possible IQD? Black, massive matrix with abundant angular quartzose clasts and trace pyrite |
| TRILL | P446368 |  |  | STD |  | GB | 5/8/2014 |  |  |
| TRILL | P446369 |  |  | BLK |  | GB | 5/8/2014 |  |  |
| trill | P446473 | 449550.13 | 5148015.28 | grab |  | NW | 25/8/2014 | QD | Taken to confirm that it is QD |
| trill | P446474 | 449614.91 | 5147994.61 | GRAB |  | NW | 25/8/2014 | QD | Taken to confirm that it is QD |
| trill | P446475 | 449641.86 | 5148026.46 | grab |  | NW | 25/8/2014 | Dia | Taken to confirm that it is diabase |
| TRILL | P446478 |  |  | STD |  | NW |  |  |  |
| trill | P446494 | 452057.08 | 5147373.11 | grab |  | NW | 26/9/2014 | Dia | Need to confirm the lithology of mafic dike. |
| trill | P446496 | 451741.87 | 5147540.90 | grab |  | NW | 26/9/2015 | Dia | Need to confirm the lithology of the mafic dike with needles. |
| trill | P446497 | 451468.61 | 5147569.13 | grab |  | NW | 26/9/2016 | Dia | Need to confirm the lithology of the mafic dike. |
| trill | P446499 | 458465.28 | 5153628.34 | grab |  | NW | 29/9/2014 | SDBX | Minor pyrite hosted in the matrix of a cold sudbury breccia |
| trill | P446500 | 452697.59 | 5147189.73 | grab |  | NW | 1/10/2014 | IQD | Sampled to confirm that it is IQD |
| TRILL | P448801 | 452668.22 | 5147309.96 | grab |  | NW | 1/10/2014 | SDBX | Minor blebby chalcopyrite in the SDBX matrix |
| TRILL | P448802 |  |  | standard |  |  |  |  |  |
| Trill | N984155 | 458331.32 | 5146708.51 | Grab |  | AP | 25/09/13 |  | Sulfide-bearing vein in GR within few $m$ of $Q D$ contact, cutting SDBX vein, going 235/45 |
| Trill | N984156 | 458326.38 | 5146703.65 | Grab |  | AP | 25/09/13 | Dia | Diabase dyke (magnetic) going 315, cutting GR, and in turn cut by the QD dyke |
| Trill | N984159 | 458351.61 | 5146714.68 | Grab |  | AP | 26/09/13 |  | Sulfide veinlets, blebs along an SDBX vein cuttting GR within a couple $m$ of the contact with QD |
| Trill | N984160 | 458351.33 | 5146713.18 | Grab |  | AP | 26/09/13 |  | Sulfide vein cutting GR within a couple $m$ of the contact with QD |
| Trill | N984161 |  |  | STD |  |  |  |  |  |
| Trill | N984162 |  |  | BLK |  |  |  |  |  |



Figure 5: Position of trenches relative to SIC, property boundary, and township boundary.


Figure 6: Map of Trench \#2 in Trill East hosting Ni-Cu-PGE mineralization Note primary bend in offset dyke and abundance of metabreccia within Inclusion QD (quartz diorite) and along the contact with felsic gneiss. PGE-bearing mineralization occurs primarily in the metabreccia, the Sudbury breccia and felsic gneiss.


Figure 7: Trench \#1 with sample locations

Field mapping of Trill restarted in July of 2014. A field crew consisting of Geologist, Geoff Baldwin, and Field Assistant, Karen Barlow mapped and prospected the $\sim 2 \mathrm{~km}$ gap between the known occurrences of the Trill Offset dyke and prospected the Sudbury breccia extending northwest from the eastern showing. Seventeen samples, including two QA/QC, were sent for ICP/FA (table 2).

In August of 2014 a field crew consisting of Geologist in Training, Nicholas Wray, and Field Assistant, Karen Barlow mapped at the site of a possible QD sample interpreted from previous geochemistry. Four samples were sent for ICP/FA (table 2).

The QD dike is interpreted to run through topographically low areas. In September of 2014, Geologist in Training, Nicholas Wray and Field Assistant, Taylor Walker mapped in topographic lows, east of the recently discovered QD outcrops and west of previously known QD outcrops. The goal was to locate the QD dike in the missing gap in order to better constrain the position of the dike and to search for mineralization. The crew did not manage to locate QD in this gap as there was very little outcrop exposure. Seven samples were sent for ICP/FA (table 2).

Surface mapping, other than the trench, was conducted at 1:2000 using base maps with air photos in NAD 27, Zone 17 Datum. A compass and a Garmin Etrex GPS were used for navigation and mapping. The field crew was equipped with one $4 x 4$ pick-up truck.

### 5.2. GEOPHYSICS

### 5.2.1. LINECUTTING

Line-cutting of the surface EM grid was carried out by Daniel Gauthier Exploration in October. Including the baseline, a total of 32 line-kilometres were cut.

### 5.2.2. UTEM5 SURVEY

The UTEM 5 surface EM survey was carried out by Lamontagne Geophysics Ltd. between November 6 and January 30 (see report in appendix E). To complete the survey, Wallbridge Mining Company incurred costs in addition to that for the services provided by Lamontagne Geophysics. Wallbridge employees Tom Johnson and Jesse Bagnell were responsible for supervising the contractors. Canadian Exploration Services was contracted to DGPS the pickets along the grid lines and the position of the loop for the UTEM5 survey. Alan King was contracted to review the geophysical data. Attila Pentek, Joshua Bailey and Natalie MacLean were responsible for planning the survey, sequestering, supervising and coordinating contractors, and review of the results. Peter Anderson was responsible for data preparation and management. Nick Wray was responsible for assembling the assessment report. Wallbridge's trucks were used for the purpose of supervision and establishing access.

### 5.2.3. BOREHOLE UTEM SURVEY

The Borehole UTEM survey was carried out by Lamontagne Geophysics Ltd. between January of 2014 and August of 2014 (see reports in appendix E). The following holes were surveyed: WTR-018, WTR-044, WTR-050, WTR-051, WTR-052, WTR-053, WTR-056, and WTR-059.

### 5.3. DRILLING

Jacob \& Samuel Drilling Ltd completed 11 diamond drill holes for Wallbridge Mining Company Limited on their Trill Property between November 15, 2013 and September 12,

2014 (table 3). The boreholes completed are: WTR-049, WTR-050, WTR-051, WTR-052, WTR-053, WTR-054, WTR-055, WTR-056, WTR-057, WTR-058, and WTR-059. In total, 6390 meters of core was drilled on the Trill property and 285 samples, including QA/QC, were sent for geochemistry ( 16 whole rock and 269 for 48 element ICP-MS). All of the drill core is NQ in diameter and is stored on core racks at Wallbridge property (129 Fielding road, Lively, Ontario, P3Y 1L7). All holes were drilled with success other than WTR-055; which had a problem with retrieving rods. Fifty four meters of rod, core barrel, and one shell was left in hole somewhere between 411 m and 563 m but are likely at the bottom of the hole. Figure 7 shows the positions of all drill holes on the Trill property. See appendix D for drill logs and plan/section views of the holes.

## Wallbridge Mining Company Limited

| Table 3: Summary of all diamond drill holes in this report |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HOLE <br> ID | Easting | Northing | Elevation (m) | Datum | Claim | Contractor | Azimuth | Dip | Length (m) | Year | START_DATE | FIN_DATE | PROJECT | Log Complete d | Geophysics |
| WTR049 | 458380 | 5146758 | 315 | NAD27 | 1229977 | Jacob and Samuel | 180 | -45 | 156 | 2013 | 17-Nov-13 | 20-Nov-13 | TRILL_SCJV | 21-Nov-13 | none |
| $\begin{aligned} & \text { WTR- } \\ & 050 \end{aligned}$ | 458350 | 5146800 | 325 | NAD27 | 1229977 | Jacob and Samuel | 180 | -60 | 298 | 2013 | 20-Nov-13 | 30-Nov-13 | TRILL_SCJV | 1-Dec-13 | none |
| $\begin{aligned} & \text { WTR- } \\ & 051 \end{aligned}$ | 458350 | 5146801 | 323 | NAD27 | 1229977 | Jacob and Samuel | 180 | -80 | 1077 | 2013 | 27-Nov-13 | 15-Dec-13 | TRILL_SCJV | 16-Dec-13 | none |
| $\begin{aligned} & \text { WTR- } \\ & 052 \end{aligned}$ | 456661 | 5146972 | 349 | NAD27 | 1229976 | Jacob and Samuel | 180 | -45 | 703 | 2013 | 18-Dec-13 | 7-Jan-14 | TRILL_SCJV | 8-Jan-14 | UTEM |
| $\begin{aligned} & \text { WTR- } \\ & 053 \end{aligned}$ | 455240 | 5147193 | 364 | NAD27 | 1167121- <br> LEASE | Jacob and Samuel | 180 | -45 | 440 | 2014 | 20-Jan-14 | 26-Jan-14 | TRILL_SCJV | 27-Jan-14 | UTEM |
| $\begin{aligned} & \text { WTR- } \\ & 054 \end{aligned}$ | 454650 | 5147199 | 352 | NAD27 | 3009484 | Jacob and Samuel | 180 | -45 | 358 | 2014 | 28-Jan-14 | 3-Feb-14 | TRILL_SCJV | 4-Feb-14 | none |
| $\begin{aligned} & \text { WTR- } \\ & 055 \end{aligned}$ | 454650 | 5147201 | 353 | NAD27 | 3009484 | Jacob and Samuel | 178 | -77 | 564 | 2014 | 3-Feb-14 | 13-Feb-14 | TRILL_SCJV | 14-Feb-14 | none |
| $\begin{aligned} & \text { WTR- } \\ & 056 \end{aligned}$ | 455240 | 5147193 | 364 | NAD27 | 1167121- <br> LEASE | Jacob and Samuel | 189 | -83 | 714 | 2014 | 15-Feb-14 | 28-Feb-14 | TRILL_SCJV | 1-Mar-14 | UTEM |
| $\begin{aligned} & \text { WTR- } \\ & 057 \end{aligned}$ | 455741 | 5151933 | 360 | NAD27 | 4207195 | Jacob and Samuel | 230 | -57 | 465 | 2014 | 9-Mar-14 | $\begin{array}{r} \text { 15-Mar- } \\ 14 \end{array}$ | TRILL_SCJV | 10-Mar-14 | none |
| $\begin{aligned} & \text { WTR- } \\ & 058 \end{aligned}$ | 458101 | 5146861 | 338 | NAD27 | 129977 | Jacob and Samuel | 180 | -45 | 518 | 2014 | 12-Aug-14 | 28-Aug-14 | TRILL_SCJV | 13-Aug-14 | none |
| WTR059 | 458109 | 5146656 | 333 | NAD27 | 129977 | Jacob and Samuel | 180 | -70 | 1000 | 2014 | 19-Aug-14 | 12-Sep-14 | TRILL_SCJV | 13-Sep-14 | UTEM |



Figure 8: Position of all drill holes on the Trill Property.

## 6. RESULTS

### 6.1. RESULTS OF 2014 MAPPING PROGRAM

Mapping and sampling at "trench \#2" concluded that the sulfide mineralization exposed in the trench is Ni-Cu-PGE bearing, and in general, the metal tenors and ratios are typical for offsetstyle rather than footwall-style mineralization. Trench \# 2 exposes very interesting geology along the contact of the Trill Offset with host rocks. There is evidence of strong assimilation of host rocks due to the heat of the intruding IQD melt. The result of this melting process is a chaotic magmatic breccia unit that is referred to as metabreccia (MTBX), which is analogous to other Sudbury offset dykes (Whistle, Parkin, Worthington). This rock appears to be equivalent to the Footwall breccia (FWBX)/late granite breccia (LGBX) that occurs together with Sublayer along the basal contact of the SIC. Clasts in the IQD also show signs of strong assimilation and alteration and tend to break apart within the IQD further indicating the significant heat associated with the intrusion of the IQD melt. Such environment is believed to be very favorable for hosting $\mathrm{Ni}-\mathrm{Cu}-\mathrm{PGE}$ mineralization.

Mapping in August of 2014 outlined two QD outcrops (Figure 8). They are 4.3 km westnorthwest of the previously known extent of the Trill Offset. The QD outcrops are not mineralized and do not host inclusions.


Figure 9: Gold star shows the position of the new QD outcrops.

### 6.2. RESULTS OF 2014 GEOPHYSICS PROGRAM

### 6.2.1. UTEM 5 SURVEY RESULTS

Final results of the UTEM 5 survey were received and reviewed. There are no immediate drill targets apparent in the survey data, however there are several sharp anomalous features that are visible in multiple channels. These may represent weak, surface mineralization or fault zones.

### 6.2.2. BOREHOLE UTEM RESULTS

WTR-044: An off-hole conductor was identified at $\sim 85 \mathrm{~m}$ down hole distance. The conductor was modelled to be 20 m to the South of the hole with a conductance of $\sim 250$ Siemens, dimensions of $28 \times 18 \mathrm{~m}$ and it appears to $\operatorname{dip} 60^{\circ}$ to the South. The conductance and the direction to the centre of the conductor were well defined by the response. The dimensions and dip may vary slightly from the model but provide a good approximation.

WTR-50: No off-hole conductors were identified by these surveys.

WTR-51: No off-hole conductors were identified by these surveys. WTR-52: No off-hole conductors were identified by these surveys. WTR-53: No off-hole conductors were identified by these surveys. WTR-18: No off-hole conductors were identified by these surveys. WTR-56: No off-hole conductors were identified by these surveys. WTR-59: No off-hole conductors were identified by these surveys.

### 6.3. RESULTS OF 2014 DRILLING PROGRAM

WTR-49: This hole was testing the conductors from the InfiniTEM and VTEM surveys. After 15 m of casing, the bedrock started off as inclusion-rich IQD with 1-2 \% disseminated to blebby pyrrhotite-chalcopyrite. The hole went through a 22 m granitic block after which it was back to IQD (slightly poorer in inclusions as above) with only trace pyrrhotite as clast replacements and along joints. In the granite there are some quartz veins with blebby chalcopyrite. The IQD continued until 93 m where it is in sharp contact with a felsic, clastrich breccia similar to that seen on the trench. This breccia is referred to as metabreccia (MTBX) hereafter following analogues of other Sudbury offset dykes (Worthington, Parkin, Whistle) were this rock type is often associated with Ni-Cu-PGE mineralization. The metabreccia has also a sharp contact toward Sudbury breccia at 97.85 m depth. After that the hole intersected felsic gneiss and Nipissing diabase with some SDBX at their contact. The hole was shut down at 156 m depth. Although the EM plates were intersected by the hole (Fig. 8), the seen sulfide does not explain the conductors. It is likely that the sulfide mineralization identified by the EM systems was undercut by the hole.

WTR-050: The hole started off in Matachewan diabase and Sudbury breccia and then intersected Felsic gneiss. These units contain pyrite-chalcopyrite mineralization associated with epidote alteration and epidote-chlorite-carbonate veinlets. The hole got into the offset dyke vertically below the contact on the trench thus confirming the vertical dip of the dyke. The offset dyke contained a few large clasts of host rocks and was made up of IQD and Metabreccia similar to the previous hole (WTR-049). The southern contact of the dyke was intersected at 296 m depth giving an approximately $56-57 \mathrm{~m}$ true width of the dyke similar to
that seen in the holes WTR-044 and WTR-049. At 350-360 m depths, the hole intersected a fault zone and then was ended in a coarse-grained diabase/gabbro. Near the northern contact of the dyke a strong magnetite-sulfide (pyrite $\pm$ chalcopyrite)-chlorite alteration zone was intersected with an approx. 0.5 m section that contains $10 \%$ pyrite, and possibly chalcopyrite. At 197 m there is a 1 m section of $10 \%$ blebby pyrrhotite-chalcopyrite at the contact of IQD and a diabase clast.

WTR-051: The hole started off in Matachewan diabase, followed by Sudbury breccia, and then intersected Felsic gneiss. All of these units contain pyrite-chalcopyrite bearing alteration assemblages similar to those in WTR-050. Between 228.5 and 231.5 m the hole intersected a diabase unit with strong magnetite-epidote-chlorite-sulfide alteration (3\% pyrite and $1 \%$ chalcopyrite) similar to that seen in WTR-050. From 231.5 to 237.5 m a potential narrow branch of IQD is intruding the diabase after which the hole continued in further diabase.

WTR-052: The drill hole did not intersect QD. However, we intersected a significant fault zone and an Olivine diabase dyke right where it was previously modelled based on projections from nearby holes and the Titan resistivity data. Both the fault and the Olivine diabase are running approximately E-W, dipping steeply to the North, are now known along a strike length of 2.8 km and may have caused substantial displacement of the Trill offset.

WTR-053: This hole was drilled in an area where the Trill offset contains blebby sulfide on surface. The hole was designed to overlap with WTR-037 to test the entire QD corridor for potential multiple splays as seen at the showing and also on the section 575 m to the East (holes WTR-019, WTR-020, WTR-038). The drill hole intersected the (a splay of the) Trill Offset between 85.75 and 108.5. Because on this section, and surface outcrops of the dyke, the dip of the dyke could be established ( $\sim 58$ degrees to the North). A northerly dip near surface is seen at the showing as well, however at depth the dyke seems to curve back to vertically below the showing. The IQD contains both mafic and granitic inclusions and some trace disseminated chalcopyrite. Further blebby pyrite occurs at the lower contact of the dyke in the partially melted granite.

WTR-054: The hole intersected a splay of the Trill Offset between 113.8 and 135 m depth. This establishes an approximate dip of 60 degrees to the North, just as in the case of WTR053.

WTR-055: The hole intersected a symmetrical QD-IQD dyke between 350 and 408 m depth and there are two short sections with disseminated-blebby sulfide mineralization. There is another QD splay higher up at around 200 m depth. This hole confirms the overall vertical nature of the dyke which is complicated by smaller local flexures and other irregularities.

WTR-056: From 142 to 208.5 metres, the hole intersected a major shear zone at a low angle (30 degrees) to the core. It is very ductile and healed, with very little broken core, jointing, or fault gouge. It is the NW-SE running structure identified as a lineament and as a Mag and Resistivity low feature and causing the apparent displacement of the main Trill offset dyke. This intersection establishes a 75 degree dip to the SW. Despite being in the footwall of the structure, the hole intersected a symmetrical QD-IQD splay of the Trill Offset from 270.5 to 295.5 m . The intersection is narrower than expected from the low angle of intersection and there are sections that show shearing, tectonic brecciation. It is possible that the dyke was affected and potentially displaced by shearing associated with a splay of the shear zone noted above although the symmetrical QD-IQD nature of the dyke does not support this interpretation.

WTR-057: The hole intersected a coarse-grained pyroxenite sill/dyke between 252 to 285 m depth with another narrow splay higher up between 241 and 252 . These intersections are right in the heart of a Mag/IP anomaly and are interpreted to be the cause of the anomaly. There is no sulfide mineralization associated with the pyroxenite. After intersecting the pyroxenite dyke the hole returned into Levack gneiss and remained in that until the end of the hole, where there was again a short section of pyroxenite of the same appearance.

WTR-058: At approximately 311 m to 351 m the drill hole intersected the Olivine diabase (OD) and structure trend that strikes sub-parallel to the interpreted Offset dyke trend. At 360 m depth the first narrow intersection of QD was encountered. Several of these glassy veins were intersected between 360 m and 385 m . At $385 \mathrm{~m}, 6 \mathrm{~m}$ of footwall breccia was intercepted
followed by two intervals of IQD from 391-412m. The last glassy vein of QD was observed at $\sim 425 \mathrm{~m}$. Trace blebs and disseminated chalcopyrite and pyrite veins were encountered in and proximal to the footwall breccia/IQD intercepts.

WTR-059: The drill hole encountered IQD from 10.5 m to 32.5 m with a large diabase (DIA) clast from 12 m to 22 m . A small ( 10 cm ) fault was observed at 90 m and has an unknown displacement. Olivine diabase was intersected between 97 m and 145.6 m , with the lower contact lost to heavily broken rock. In this broken section from 145.6 m to 151 m the fragments are primarily bleached IQD. This IQD unit then extends to a depth of 299 m , and seems to run along the contact from 260 m to 299 m and is indicated by the inconsistent appearance/disappearance of local country rocks (FGN). The hole intersected FGN with minor Olivine Diabase and Sudbury Breccia to 598m. Trace pyrite and chalcopyrite blebs can be seen throughout the IQD. Notable occurrences of chalcopyrite can be seen at 204 m where centimeter sized blebs were observed.

Halliburton was contracted to perform gyroscope surveying down the drill holes.

## 7. INTERPRETATION AND CONCLUSIONS

- The assays results confirmed that the sulfide mineralization exposed in Trench \#2 is $\mathrm{Ni}-\mathrm{Cu}-\mathrm{PGE}$ bearing and in general the metal tenors and ratios are typical for offsetstyle rather than footwall-style mineralization.
- An off-hole conductor was identified in WTR-044 at $\sim 85 \mathrm{~m}$ down hole distance. The conductor was modelled to be 20 m to the South of the hole with a conductance of $\sim$ 250 Siemens, dimensions of $28 \times 18 \mathrm{~m}$ and it appears to dip $60^{\circ}$ to the South.
- WTR-052 confirmed the presence of an east-west trending fault zone that displaces the trill offset.
- Drilling of WTR-052 indicated a gap in the Trill offset that can only be explained by:
- Pinching of the dyke related to the emplacement of the Quartz diorite melt.
- En echelon character of the Quartz Diorite system.
- Structural displacement along the E-W fault zone.
- Structural interpretation of the E-W fault zone and Olivine diabase dyke was carried out on drill hole intersections of drill holes WTR-038, -041, -043, -045, -050 and -052. Measurements of slickensides confirmed that all intersections belong to the same fault zone and indicate three dominant structural orientations: 98/85, 98/50, 278/20. The first set is the most important and is believed to represent the orientation of the actual fault confirming that the zone is nearly vertical. The amount of movement along the fault doesn't appear to be significant.
- Drilling confirms the overall vertical nature of the offset dyke which is complicated by smaller local flexures and other irregularities.
- Drilling of WTR-057 intercepted a pyroxenite dike that explains magnetic and Induced Polarization anomalies. The pyroxenite has anomalous nickel content (up to 1430 ppm).
- Surface mapping revealed new outcrops of Quartz Diorite on the Trill Property. They are 4.3 km west-northwest of the previously known extent of the Trill Offset and do not contain sulfides.


## 8. RECOMMENDATIONS

- Constrain the location of 4.3 km segment of the Trill Offset discovered in 2014 with trenching and drilling.
- Conduct large loop surface EM survey over the 4.3 km segment of the Trill Offset discovered in 2014.
- Explore the remainder of the Trill Offset dyke below the geophysics coverage with drilling and borehole EM.


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## CERTIFICATE

To Accompany the Assessment Report<br>for the Trill Property<br>Totten and Trill Townships<br>Sudbury, Ontario<br>for<br>Wallbridge Mining Company Limited<br>Effective: December 11, 2014

I, Nicholas Wray, do hereby certify that:

1. I reside at 859 Adelaide st, Sudbury, Ontario, Canada, P3E 4B7.
2. I am a graduate from Laurentian University in 2014 with my Bachelor of Science (Hons.) in Geology and have been practicing my profession ever since.
3. I am a Geologist in Training with Wallbridge Mining Limited.
4. I have personally performed the work carried out in 2014.
5. As an employee, and an insider, of Wallbridge Mining Company, I do not qualify as an independent Qualified Person.


Nicholas Wray.
Wallbridge Mining Company Ltd. 129 Fielding Rd.
Lively, Ont. P3Y 1L7

# APPENDIX A 

Maps

## APPENDIX B

Assay certificates

## APPENDIX C

Invoices

## APPENDIX D

Drilling logs, plans, and sections

## APPENDIX E

Geophysics reports





$5,147,900 \mathrm{mN}$.
$147,700 \mathrm{mN}$.

5,147,600 mN
$5,147,500 \mathrm{mN}$.









