Stripping and Mapping Program

Limestone Dimension-Stone Deposit

Lots 5 and 6- Concession 2: Galway Township

by

F.T. Archibald, B.Sc. P.Geol.
January 28, 2003

RECEIVED
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GEOSCIENCE ASSESSMENT OFFICE
Part Lots 5 & 6, Concession II
Galway Township, County of Peterborough
Introduction

Mr. Jeff C. Chesher and John C. Archibald have done an assessment of the limestone located on Lots 5 and 6 of Concession 2 for the purpose of evaluating the potential for a Limestone Quarry for purposes of extraction of dimensional stone for landscaping purposes.

The stripping and trenching has been located on a 17.5 hectare area of: north half Concession 2- Lot 5 (claim 1193079 and the north half of Concession 2- Lot 6 (claim 924325). The stripping program took place from January 18, 2001 through December 5, 2001, and a total of $67,633.97 has been spent on this project as trenching, stripping, and mapping.

Exploration results have confirmed that the limestone has potential for marketing, and Trowe Consulting Engineers Ltd. have submitted an application for permitting under Category 11 of the Aggregate Act. It is presently being reviewed by the Ministry of Natural Resources. The cost of the permit study has been done at a cost of $29,584.90, a cost which has not been incorporated as part of the excavating and exploration. Another cost of $3500.00 (not incorporated in the above costs) has been spent on surveying the lot and concession boundaries.

The top 3.3 to 14.6 metres of limestone belongs within the Gull River Formation.

It has been evaluated that a 14.5 hectare area encompassing some 2,500,000 of limestone down to 2.0 metres above the groundwater table contains economically viable limestone dimension stone product. A Level 1 and Level 2 report on the area of extraction has concluded that this operation would not adversely impact any flora-fauna-animal-fish-archaeological habitats.
**Site Description and Surrounding Land Use**

**Location-**
The property is located approximately 13.1 kilometers north of Bobcaygeon along County Road 49 or some 15.0 kilometers south of Kinmount along County Road 49, and another 2.7 kilometers east along Bass Lane, a Township controlled gravel road.

County Road 49 is an all-year paved highway (two-lane). Bass Lane is a one lane gravel road which has been widened for passing; specifically for the snowmobile and quarry traffic.

**Topography-**
The site is on the western slope of a limestone plateau having a high ground surface elevation of 298 metres above sea level. The marsh area to the west of the claim is at 276 metres above sea level. The marsh drains northeast to Bass Lake (at 2.5 kilometers downstream) which is at an elevation of 258.5 metres above sea level. An intermittent stream runs through the marsh; a majority of the water from spring-fed seepage from the limestone units upstream. The direction of surface drainage is from east to west.

**Vegetation-**
The area is of mixed forest composed of white pine, white birch, white cedar, red oak, sugar maple, and white spruce.

**Overburden-**
The soils (topsoil and subsoil) are generally non-existent to 0.30 metres in depth, and are mainly comprised of glacial sand-gravel and organics.
History of Area:

Vermiculite mineralization was discovered by the late Harvey Greene in Cavendish Township (southeast section), to the east of Galway Township, in 1950.

From 1975 to 1977, Bright (OGS) mapped Cavendish Township. The Ontario Department of Mines had previously mapped the northwest section of Galway Township, and no mapping had been done in the areas of the marble complexes. Previously, Galway Township was known for iron, silver, and uranium exploration.

In the mid 1970's (1975-1977), another program of renewed vermiculite exploration occurred in Cavendish Township under C.W. Archibald Ltd. when Harvey Greene transferred his properties to C.W. Archibald. These properties were optioned to Goshawk Mines Ltd. and Insulite Development Corporation under management by C.W. Archibald Ltd. During this period one deposit with inferred resources was discovered and mining permits were issued.

Between 1992 and 1995, another vermiculite deposit (West Zone) with inferred resources was discovered to the west of the first discovery.

From 1996 to 1999, Regis Resources Inc. trenching the area west of the original discovery to confirm resource calculations and grades, and has since performed bulk sample analyses and marketing studies. Regis Resources Inc. have secured Aggregate Mining permits to begin mining the vermiculite. It was observed that the quality of the material improves and the flake size increases with depth until the vermiculite grades to (unweathered) biotite.

In 1998, Merv Johnson and Jeff Parnell evaluated two limestone deposits for limestone dimension stone in Galway Township; both of which have been issued Aggregate Permits.

In 1999, John C. Archibald prospected the areas surrounding the first two discoveries and located two additional vermiculite-bearing zones through reconnaissance mapping in Galway Township. It was at this time
that J.C. Archibald and Alan A. Archibald applied for and were awarded OPAP Grants for the area acquired in Galway Township.

As the OPAP program in 1999 continued, new zones and continuations of the discovery zones of vermiculite-bearing carbonate were identified and mapped.

In 2000 and 2001, Floyd Preston evaluated a syenite-granite quarry at Mountain Lake in Galway Township, and have been issued with quarry permits.
**General Geology**

The area covered by the claims is underlain by carbonate-rich metasediments of marble and diopside (Grenville Province of the Precambrian Shield), carbonated biotite-schists (metasediments), amphibole-rich metasediments, intrusive amphibolite schist, syenite / syenite-gneiss intrusions, pegmatite intrusions, quartz monzonite, and crystalline limestones. These rocks are of mid Proterozoic age (1280-1300 Ma). The metasediments are formed from metamorphosed limestone. Bands of altered biotite or amphibolite rich rock can be observed in areas of intense deformation and shearing.

The structural geology of the Grenville Province is Complex and is dominated by large-scale regional fold structures that have been folded and re-folded by tectonism, high-grade metamorphism, and intrusive activity.

A period of major orogenic deformation occurred pre 1300 Ma when the volcanic and sedimentary rocks were deposited on the basement rocks. Felsic Intrusions dating 1240 to 1270 Ma indicates a mid Proterozoic orogenic period as most of the orogenic period occurred between 1220 to 1160 Ma period. During the Grenville Orogeny, rock units around the Anstruther Batholith and Cheddar Batholith were metamorphosed and deformed into flow-folds situated around the rim of the felsic-alkali batholiths.

The area was glaciated during the Pleistocene. In areas where geological trend is in a north-south direction the rocks have been scoured cleanly and little to no glacial till has been deposited. In areas where the geological trends are east-west, there is some glacial till deposited at the bases of hills and at the edge of valleys where there are catch-basins. In some cases there is 1.0 to 2.5 metres of glacial till which is deposited intermittently.

It is believed that the source area for the biotite is from the biotite rich syenite and syenite-breccia units which lie along the east and southeast
boundary of the metasediment units, and are related to carbonatite and pyroxenite structures which rim a series of four felsic (granite-syenite) batholith structures. These gneissic source rocks are hosted within marbles and metasediments, and the majority are situated in the southeast corner of Galway Township and within the west section of Cavendish Township.

The limestone marbles are of both calcitic and dolomitic varieties. In the permit area the limestone formed on top of the marble units under a marine environment.

The bedrock generally appears to dip steeply (70 to 85 degrees) southeasterly and strikes northeasterly. This is in contrast to the flat-lying bedding found within the deposits to the east and south of Catchacoma Lake. Weathering increases with depth where the dip steepens. In some areas close to shears and faults the dip is crenulated and flow banded.

Geological mapping has located several parallel bands of biotite-bearing marble which diverge and converge around intrusive syenite-granite-gabbro-pyroxenite units. The two most exceptional vermiculite-bearing trends, the North Zone and the South Zone, appear to average 330 metres and 200 metres in width respectively. One section of the North Zone is approximately 800 metres in width whereas one section of the South Zone is over 1300 metres in width. Where the biotite and iron-rich phlogopite mica is weathered it has altered to vermiculite. It is thought that some of the zones are actually the same but are divided by dyke systems of syenite granite, quartz monzonite, and pegmatite. Generally, the zones are continuous except where block-faulted by northeasterly trending faults. Several of these faults have been mapped either by topographical controls or geological inconsistencies between the close-spaced trenches.

It appears that the Galway marble bands dip steeply to the east-southeast and the Cavendish vermiculite bands dip steeply to the west-northwest which would confirm a synclinal structure which plunges gently southwest with the "nose" of the structure in the northeast part of Cavendish Township (Northwest Anstruther Township). Biotite host rock consisting of syenite and amphibolite is observed inbetween these
structures and within the mid-axis.

Diamond drilling in the latter part of 2001 has indicated a possible affinity of the marble complexes with carbonatite-nepheline complexes which border with syenite-pyroxenite complexes which band around an alkali-rich granite core.
**Geological Table of Formations**

**Phanerozoic** - Cenozoic- peat, marl, sand and gravel (glaciofluvial)
- Bobcaygeon Formation Limestone
- Gull River Formation Limestone
  (trilobite and gastropod interfaces)
- Shadowe Lake Formation Limestone

**Precambrian** - Proterozoic-
1160-1220Ma **Carbonatite Suite** - Pegmatite
  Carbonatite
  Granite
  Syenite
  Diorite-Gabbro

1240-1270Ma **Alaskite Suite** - Felsic Intrusive (gneisses)
  Diorite Suite - Felsic Intrusive (granodiorite gneiss)
  Mafic Intrusive (gabbro gneiss)

**Trondhjemite Suite** - Medium Intrusive (monzonite gneiss)
  Medium Intrusive (granite gneiss)
  Medium Intrusive (granodiorite gneiss)
  Mafic Intrusive (diorite gneiss)

**Nepheline Suite** - Alkaline Intrusive (potassic syenite gneiss)
  Nepheline Syenite Intrusive
  Mafic Alkaline Intrusive (nepheline gabbro)

**Anorthosite Suite** - Mafic Intrusive (gabbro gneiss)

**Calcareous Metasedimentary Suite**-
  Calcitic Marble (gneissic to massive)
  Dolomitic Marble (gneissic to massive)
  Amphibolitic mudstone-greywacke
  Calcitic-siliceous mudstone-greywacke

**Siliceous Metasedimentary Suite**-
  gneissic greywacke
  gneissic arkose

**Metavolcanic Rocks-Andesite-Dacite Suite**-
  Felsic Metavolcanics (gneissic)
  Rusty-graphitic-pyritic-pyrrhotitic

**Tonalite Gneiss Basement Rock Suite**

(After- S.B. Lumbers 2000, Ontario Geological Survey)
Exploration Program Specifics:

Permission was granted from the Township of Cavendish-Galway and Harvey to extend the Township Road Allowance from the existing Bass Lane and onto the property at Lot 5-Concession 2.

Trees were cut over the trench and stripped areas prior to exploration, and the stumps and topsoils were piled in the northeast corner of Lot 5-Concession 2 of Galway Township. These soils will be used to cover the rehabilitated land.

A east-west area of stripping was put through the northern limit of this area and limestone of the Gull River Formation was observed over a majority of this area with exception of the north west corner (west boundary) in which limestone of the Shadow Lake Formation was uncovered. Along this right of way, excavation of up to 2.0 metres in depth was done.

An area of approximately 50 meters by 75 meters was stripped in the northeast corner of Lot 5-Concession 2 and Lot 6 of Concession 2. Approximately 150 tonnes of dimension stone was stripped off during the excavating. The
2001 Work Program -

Stripping by backhoe excavator (Cat 320 EL) has delineated dimension stone thicknesses of 0.28 to 1.09 metres in thickness on the east side of claim 1193079 and 0.12 to 1.83 metres in thickness on the west side of claim 1193079.

The Shadow Lake formation, usually designated by the green colour of the limestone, is generally friable and "shaley". The Shadow Lake Formation underlies the Gull River Formation and averages 1.0 to 2.0 metres in thickness.
Photo 7  Area Excavated through Mining Exploration under Mining Act

Photo 8  Area Excavated through Mining Exploration under Mining Act
Photo 9  Area Excavated through Mining Exploration under Mining Act

Photo 10  Area Excavated through Mining Exploration under Mining Act
Results of Limestone Testing

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<th>Sample #</th>
<th>SiO2</th>
<th>Al2O3</th>
<th>CaO</th>
<th>MgO</th>
<th>Na2O3</th>
<th>K2O</th>
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<td>23317R</td>
<td>6.7</td>
<td>2.3</td>
<td>37.5</td>
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<td>0.50</td>
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<tr>
<td>25481R</td>
<td>3.3</td>
<td>0.90</td>
<td>44.1</td>
<td>7.7</td>
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<tr>
<td>23301R</td>
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<td>0.5</td>
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<tr>
<td>23302R</td>
<td>62.4</td>
<td>8.3</td>
<td>8.3</td>
<td>3.7</td>
<td>0.2</td>
<td>2.5</td>
<td>5.3</td>
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</table>

Samples 23317 R and 25481R are from the upper layers of the Gull River Formation; 23317R from the leached sections and 25481R from the underlying layers below a few metres in depth. Samples 23301R and 23302R are from the Shadow Lake Formation; 23301R from the upper chlorite rich sections and 23302R from the iron rich basal layers.

The Gull River Formation is generally bleached-white to buff to grey on surface to beige-buff-pink at depth. The rock, although calcite-reactive, has between 6.7% and 3.3% SiO2; with the silica content decreasing with depth. The limestone also varies between 37.5% and 44.1% CaO (increasing amount with depth below the bleached-leached layers). Iron content averages minus 1.1% Fe2O3.

The Shadow Lake Formation is generally green to pink at depth. Marble content (fragments) decreases with depth with an increase in chert fragments at depth. The silica content averages 59.7% to 62.4%. The CaO content decreases from 15.5% to 8.3% with depth. Iron content increases from 1.9% at the surface to 5.3% within the basal layers due to leaching.
**Surficial Mapping of Limestone (Site #1)**

Claim # - Northwest quadrant claim 1193079  
Location - quadrant (Lot 4-5 Concession 2-3)  
25.6 metres east of survey post #4 on Conc.2-Conc.3 line  
Elevation - 2.0 metres above swamp, 3.3 metres above water table  
11.2m monitor depth / waterline @ 7.0 m. depth - water table @ -4.2m surface

0-0.60 metres - Casing

0-3.30 - **Limestone (Calcitic Sediment)** - light beige/grey  
colour, *Gull River Formation*, cherty appearance, very fine  
grained and cherty texture, seams silica cemented

- 0.70-0.80 - slight porphyritic texture with slight pink-beige colour  
- 0.12 - joint-seam  
- 0.64 - joint-seam  
- 1.83 - joint-seam  
- 0.80-1.0 - slight pink-beige colour grading into beige colour

3.30-4.25 - **Limestone (Calcitic Sediment)** - red and green  
coloured layers, *Shadow Lake Formation*, fine silica rich grains  
(-1/2 mm diameter) cemented with calcitic matrix, red-iron  
oxide rich layers and green calcitic layers (derived from  
marble) ie - 4.88 green layer

- Water Monitor put down to 9.1 metres (3.0 metres riser, 6.1metres  
screen) - pipe pulled up 0.30 metres above ground level  
-water table at 3.0 to 3.7 metres below surface
Surficial Mapping of Limestone (Site #2)

Claim # - northeast quadrant of claim 1193079
Location - quadrant (Lot 5-6 Concession 2-3)
  34.4 metres west of survey post & 50.0 metres south Conc.2-3 survey line
Elevation - 5.0 metres above swamp, 6.3 metres above water table
  25.0 m monitor depth / waterline @ 12.25 m. depth- water table @ -11.35m surface
Drilling Co. - Sonic Exploration Inc., Vancouver B.C.
Core Stored - Property and Concord, Ontario warehouse

0-0.60 metres - Casing, to east stacking of two limestone layers averaging 1.2 metres total height at east side of claim boundary vertical height above drill collar is 3.30 metres (5 layers thick) of limestone

0-7.53+ - Limestone (Calcitic Metasediment) - Gull River Formation, light beige-grey colour (light bleached to medium), very fine grained with cherty texture, calcitic rich with some thin/hairline chert-shale layers with trilobite fossils of Ordovician-Devonian age., shale/mud seams generally from 0.12 m to 0.67 metres thick with some shale contacts competent and cemented and below 10.9 metre depth layers generally 0.80 to 0.23 metres thick.

  0-0.45- beige grey colour cherty texture
  0.45-0.90-beige grey colour cherty texture
  0.90-1.20-beige colour and slightly coarser grained
    mud seam @ 1.20 metre depth
  1.20-1.48- beige colour and slightly coarser grained
    mud seam @ 1.48 metre depth
  1.48-1.77- beige colour, slightly bleached, cherty texture, mud
    seam @ 2.0 metre depth
  1.77-2.58- white-beige colour, slightly bleached, cherty texture, mud
    seam @ 2.58 metre depth
  2.58-3.67-coarser grained with slight crystalline texture,
    medium grey-beige colour (slightly bleached),
  3.67-4.17- coarser grained with slight crystalline texture, beige
    colour (slightly bleached)
  4.17-4.60-finer grained, slightly bleached (white colour) with
    shale layers @ 4.52
  4.60-6.10- finer grained and more massive with cherty texture becoming light grey colour and more massive with depth,shale layers @ 4.78,4.98,5.35,5.55,5.85 (layers average 0.20 metres to 0.37 metres).
6.10-6.31- medium beige-grey colour, cherty fined grained and more calcitic than lighter coloured limestone (less silica content)
16.31- shale contact
6.31-7.53- light beige-grey colour (bleached) with shale contacts @ 6.53,7.20,7.33,7.45 intervals
7.53- shale contact (layers average 12.0 to 67.0 cm. thick)

Water monitor put down to 12.2 metres depth (0-6.0 metre riser and 6.0-12.2 metre screen), monitor pulled back 0.30 metre above ground level.

-Water table at 13.4 metre below surface after two days, and at 9.8 metres depth after five days to one week after installation.
Conclusions and Recommendations-

The north half of Lots 5 and 6 of Concession 2 in Galway Township are covered by Gull River Limestone Formation. Basal rocks below the limestone in this area are brecciated marble-limestone of the Shadow Lake Limestone Formation and below this are calc-alkalic-biotite marbles, syenites, and nepheline syenites. The iron rich zones within the Shadow Lake Formation and the basal Gull River Formation are from leaching of the iron rich syenite rocks. The Shadow Lake Formation can be seen in a cross-cut at the northwest corner of claim 1193079.

The rocks are Paleozoic (Middle Ordovician) which were formed during a marine environment which covered the basement syenitic intrusive and marble which was formed during flood environments.

The blocks within the Gull River Formation are ideal for dimension-stone as they cleave between 0.10 and 0.60 metres in width. The upper sections are bleached to buff-beige colour and transgressing to light grey colour with depth. Some zones at depth appear to have a light pink colour.

Age dating of the Gull River Formation, through fossil studies along the shale rich seams. The age of these rocks is estimated to be between 458 to 478 Ma.

The Gull River Limestone is a fine grained chert-textured calcium carbonate rock which is resistive to acidic water and natural weathering. It is well suited for the intended use as dimension-stone block for water barrier around lakeshore. The fact that the rock cleaves natural indicates that it can be extracted by mechanized equipment without the use of blasting.

Concord, Ontario
January 28, 2003

Frederick T. Archibald, B.Sc.,P.Geo!
INVOICE 02-14

F.T. Archibald Consulting Ltd.
668 Millway Ave. Unit 15
Concord, Ontario L4K3V2

IN ACCT. WITH:-  **Chesher-Archibald Limestone Quarry Exploration- 2001**
1193079 & 924325- Concession 2-Lots 5&6 Galway Twp.

**2001**

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<th>Description</th>
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<td>Mar.6-28</td>
<td>stripping area for mapping rock main pit 200'X200' (112.75 hr @ 67.66/hr)</td>
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<td>Apr.5-10</td>
<td>stripping / trenching (54.5 hr. @ 72.52/hr)</td>
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<td>72.52</td>
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<td>material to rehabilitate trenches-pits 3 hr. @ 55.00/hr</td>
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<td>55.00</td>
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<td>purchase of 2,000 tons sand from private lot adjoining claim of exploration</td>
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<td>trail into site 19 hr @ 72.5/hr</td>
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<td>Oct.20-23</td>
<td>lifting stone / excavation / trenching 60 hr (101.50/hr)main pit 200'X200' - north edge claim</td>
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<td>300</td>
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<td>filling in trenches-rehabilitation (43 hr. @ 55.00/hr)</td>
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<td>trench-pit work 5 hr @ 115 per hr ) Rehabilitation of pit and trench</td>
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<td>115</td>
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<td>(piling rock and cleaning up pit, piling of overburden for rehabilitation</td>
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<td>over pit area (33 hr @ 65.91 per hr )</td>
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<td>materials for rehabilitation of pit</td>
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**TOTAL OF PROGRAM**  $67,633.97
Work Breakdown

Claim 1193079

stripping and excavating $23,738.18  
materials and rehabilitation $ 7,978.81  
mapping and reports $ 2,100.00

Total expenditures $33,816.99

Claim 924325

stripping and excavating $23,738.17  
materials and rehabilitation $ 7,978.81  
mapping and reports $ 2,100.00

Total expenditures $33,816.98

* Jan. 18 amount 927.50 will be cut back 50% as applied after two year deadline
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<th>DATE</th>
<th>WORKER NAME</th>
<th>EQUIPMENT OR MATERIAL</th>
<th>DETAILS</th>
<th>QUANTITY</th>
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<td>B/H</td>
<td>put in culverts, gate &amp; plow</td>
<td>11</td>
<td>70.-</td>
<td>770-</td>
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<td></td>
<td>Jamie</td>
<td>labourer</td>
<td>put in culverts, gate &amp; strip</td>
<td>4½</td>
<td>35.-</td>
<td>157 50</td>
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<td>Mar 6</td>
<td>Ian</td>
<td>Dozer</td>
<td>stripping &amp; pit</td>
<td>9</td>
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<td>630-</td>
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<td></td>
<td>Arnold</td>
<td>Tandem</td>
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<td>10½</td>
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<td>55.-</td>
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<td>800-</td>
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<td>8½</td>
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<td>burn, brush &amp; strip</td>
<td>7½</td>
<td>100.-</td>
<td>750-</td>
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<td></td>
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NOTE: * Aggregates are subject to 8% PST. **ALL** items are subject to 7% GST.
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<td>Burn brush &amp; strip</td>
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<td>840 -</td>
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NOTE: * Aggregates are subject to 8% PST. **All** items are subject to 7% GST.

Revised: 1/20/2003
# JOB WORK SHEET

**Customer Name:** BSG/Quarry Rd  
**Site Location:** Bass Lane

## DATE  |  WORKER NAME  |  EQUIPMENT OR MATERIAL  |  DETAILS  |  QUANTITY  |  PRICE  |  $ AMOUNT  
--- | --- | --- | --- | --- | --- | --- |
Oct 24  |  Lawrence  |  Exc.  |  Cast up fill  |  10  |  115. -  |  1150 -  
|  Ron  |  D3  |  pit & trench  |  10  |  70. -  |  700 -  
Oct 25  |  Lawrence  |  Exc.  |  Cast up fill  |  10  |  115. -  |  1150 -  
|  Dan  |  D65  |  pit & trench  |  9  |  115. -  |  1035 -  
|  Ron O.  |  D3  |  "  |  10  |  70. -  |  700 -  
Oct 26  |  Lawrence  |  Exc.  |  Cast up fill  |  10  |  115. -  |  1150 -  
|  Dan  |  D65  |  pit & trench  |  8½  |  115. -  |  977 50 -  
|  Ron O.  |  D3  |  "  |  8  |  70. -  |  560 -  
|  Kevin  |  Tandem  |  "  |  haul fill 25 loads  |  10½  |  55. -  |  577 50 -  
|  Nath  |  Tandem  |  "  |  22 loads  |  8  |  55. -  |  440 -  
Oct 27  |  Lawrence  |  Exc.  |  Build pit  |  5  |  115. -  |  575 -  
|  Jamie  |  D65  |  "  |  5  |  115. -  |  575 -  
Oct 29  |  Arnold  |  Komatsu  |  Build pit  |  10½  |  100. -  |  1050 -  
Oct 30  |  Lawrence  |  Exc.  |  Lift rock  |  10½  |  115. -  |  1207 50 -  
|  Jamie  |  chainsaw  |  "  |  Clear area  |  10½  |  45. -  |  472 50 -  
|  Dan  |  D65  |  "  |  pit work  |  10  |  115. -  |  1150 -  
|  Arnold  |  Komatsu  |  "  |  10  |  100. -  |  1000 -  
Nov 20  |  Arnold  |  Komatsu  |  Pit work  |  10  |  100. -  |  1000 -  
|  Dan  |  D65  |  "  |  10  |  115. -  |  1150 -  

**NOTE:** *Aggregates are subject to 8% PST. **ALL** items are subject to 7% GST.*
<table>
<thead>
<tr>
<th>DATE</th>
<th>WORKER NAME</th>
<th>EQUIPMENT OR MATERIAL</th>
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<tr>
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<td>pit work</td>
<td>10</td>
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<td>1000.00</td>
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<td>Jan</td>
<td>D5</td>
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<td>10</td>
<td>115.00</td>
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Balance Forward: 37061.25

NOTE: * Aggregates are subject to 8% PST. **ALL** items are subject to 7% GST.
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PRIVATE LAND
MIXED FOREST
WHITE PINE, WHITE BIRCH, WHITE CEDAR, RED OAK, SUGAR MAPLE, WHITE SPRUCE, WHITE BIRCH

ROAD ALLOWANCE BETWEEN CONCESSION 2 & 3 (UNOPENED)
495m N71°49'30"E

LOCAL BENCHMARK
SWL=281.9m

PRIVATE LAND RU

GATE

G6
SWL=278.4

ACCESS ROAD

1. THE WATER TABLE IS AT ELEV 273.4 * 278.9 MASL IN BOREHOLE/PIEZOMETERS G6 & G7 RESPECTIVELY AS MEASURED NOV 2001
2. THIS PLAN WAS PREPARED USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS AND AUGMENTED WITH LEGAL SURVEY DATA FROM J.A. AECUEL (OLS) DATED NOVEMBER 26, 2002 AND DECEMBER 5, 2002
3. LOT, CONCESSION & BOUNDARY LINES ON THIS PLAN ARE APPROXIMATE
4. LOT, CONCESSION & BOUNDARY LINES ON THIS PLAN ARE NOT A LEGAL SURVEY DRAWING IN ACCORDANCE WITH THE PROVINCE OF ONTARIO SURVEYORS ACT 1987
5. THIS PLAN IS PREPARED UNDER THE AGGREGATE RESOURCES ACT FOR AN AGGREGATE PERMIT. CATEGORY MIXED FOREST — WHITE PINE, WHITE BIRCH, WHITE CEDAR, RED OAK, SUGAR MAPLE, WHITE SPRUCE, WHITE BIRCH

TOPOGRAPHY PLAN

J.A. AECUEL (OLS)

MIXED FOREST
WHITE PINE, WHITE BIRCH, WHITE CEDAR, RED OAK, SUGAR MAPLE, WHITE SPRUCE, WHITE BIRCH
PLAN OF SURVEY OF
PART OF LOT 5, CONCESSION 2
TOWNSHIP OF GALWAY
NOW IN THE TOWNSHIP OF GALWAY-CARDOSS-
COUNTY OF PETERBOROUGH
SCALE 1:800

J.B. FLEQUEL O.L.S.
2002

— DENOTES SURVEY MONUMENT, PEBBLE
Q — DENOTES SURVEY MONUMENT PLANTED
P — DENOTES PLAN & POST NOTES OF
RETRACEMENT, AS PER L. & S. OCT. 31, 931
BY J.B. FLEQUEL, O.L.S.
P1 — DENOTES DEPOT 6, 47.64+46
A.M.S. = DENOTES ABOVE M.S. LEVEL
P.F. — DENOTES PEACE & CONCESSION 26
G2 — DENOTES G2 CONCESSION 2

BEARINGS SHOWN ARE ATTACHED TO BE RELENT
TO THE BEARINGS "N 71° 49' 30" E" STATED IN PEACE &
CONCESSION 2 IN ACCORDANCE WITH DEPOT 6.
P1 = 47.64+46
ELEVATIONS SHOWN RELENT TO GEODETIC SURVEY
G2 G2G2 CONCESSION 2046.84M. LON.W 128.93 EX.

METRIC DISTANCES SHOWN IN METRES AND CAN
BE CONVERTED TO FEET BY DIVIDING BY 3.2808

LOCAL
BENCHMARK
LOT 1
2046.84M
 LOCAL
BENCHMARK
LOT 1

INSTRUMENT No. 206815

BYJ.B. FLEQUEL, O.L.S.
2002

CONCESSION 3

LOT 6

N 71° 49' 30" E

CONCESSION 2

LOT 5

N 71° 49' 30" E

CONCESSION 1

LOT 4

N 71° 49' 30" E

LOT 3

N 71° 49' 30" E

LOT 2

N 71° 49' 30" E
TOPOGRAPHIC PLAN OF ROAD
PART OF LOTS 5 & 6, CONCESSION 2
TOWNSHIP OF GALWAY
(NOW IN THE TOWNSHIP OF GALWAY-CAVENDISH & HARVEY)
COUNTY OF PETERBOROUGH
SCALE 1:400

METRIC: DISTANCES SHOWN HEREON ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

J.B. FLEGUEL O.L.S.
2002

LOT 5
LOCAL BENCHMARK
TOP 9 = 291.65 A.M.S.L

TOPOGRAPHY PLAN

ALLOWANCE
ACKNOWLEDGEMENT OF ANALYTICAL REQUEST

When referring to these samples, please quote:

Work Order No. 067569

TO:
Archibald Consulting Ltd.
Attn: Fred Archibald
668 Millway Ave. Unit 15
CONCORD
ONTARIO/CANADA/L4K 3V2

TEL: 905-660-0501
FAX: 905-660-7143

We have received a shipment on 28/03/02

P.O. NO: :
PROJECT NO: :
WAYBILL NO: :
FROM :

SHIPPED VIA: Self

DISTRIBUTION OF UNUSED MATERIAL:
Pulps: Return
Rejects: Return

NUMBER OF SAMPLES: 9  SAMPLE TYPES: Rock & Core & Sand

ESTIMATED DATE OF COMPLETION: 12/04/02

ANALYTICAL REQUEST:

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<th>Description</th>
<th>Quantity</th>
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<td>PP02</td>
<td>Milling 200g in Cr steel</td>
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Total

We thank you for your order.

Bonnie White
XRAL Laboratories

DATED: 28/03/02

Subject to SGS General Terms and Conditions

SGS Member of the SGS Group (Société Générale de Surveillance)
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<th>Sn ICP90</th>
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*Member of the SGS Group (Société Générale de Surveillance)*
ACKNOWLEDGEMENT OF ANALYTICAL REQUEST

When referring to these samples, please quote:

Work Order No. 007569A

TO:  
Archibald Consulting Ltd.
Attn: Fred Archibald
668 Millway Ave. Unit 15
CONCORD
ONTARIO/CANADA/L4K 3V2
TEL:  905-660-0501
FAX:  905-660-7143

We have received a shipment on 28/03/02

P.O. NO:   
PROJECT NO:   
WAYBILL NO:   
FROM:   

SHIPPED VIA:  Self

DISTRIBUTION OF UNUSED MATERIAL:

Pulps:  Return
Rejects: Return

NUMBER OF SAMPLES: 2  SAMPLE TYPES: Core

ESTIMATED DATE OF COMPLETION: 12/04/02

ANALYTICAL REQUEST:

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We thank you for your order.

Bonnie White  
XRAL Laboratories  

DATED: 28/03/02

Subject to SGS General Terms and Conditions

Member of the SGS Group (Société Générale de Surveillance)
| Element | Method | Det./Lm. | Units | Ce  | Dy  | Er  | Eu  | Gd  | Ho  | La  | Lu  | Nd  | Pr  | Sm  | Tb  | Th  | Tm  |
|---------|--------|----------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|         | 0.1 ppm | 0.05 ppm | 0.05 ppm | 0.05 ppm | 0.05 ppm | 0.1 ppm | 0.05 ppm | 0.05 ppm | 0.1 ppm | 0.05 ppm | 0.05 ppm | 0.1 ppm | 0.05 ppm | 0.05 ppm | 0.05 ppm | 0.05 ppm |
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| 23311   | n.a.   | n.a.     | n.a.   | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
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| 23313   | 2.8    | 1.46     | 1.14   | 0.17 | 0.78 | 0.34 | 1.4  | 0.23 | 1.4  | 0.34 | 0.4  | 0.17 | 1.4  | 0.20 |
| 23314   | 22.0   | 4.61     | 2.84   | 1.33 | 4.31 | 1.05 | 9.3  | 0.46 | 13.3 | 3.27 | 3.6  | 0.81 | 0.6  | 0.46 |
| 23315   | n.a.   | n.a.     | n.a.   | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| 23316   | n.a.   | n.a.     | n.a.   | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| 23317   | n.a.   | n.a.     | n.a.   | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
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*SGS Member of the SGS Group (Société Générale de Surveillance)
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## Work Report Summary

**Transaction No:** W0390.00271  
**Status:** APPROVED  
**Recording Date:** 2003-JAN-31  
**Approval Date:** 2003-APR-25  
**Work Done from:** 2001-JAN-18 to: 2001-DEC-05

**Client(s):**
- 102825 ARCHIBALD, JOHN CHARLES
- 400147 CHESHER, JEFF N.

**Survey Type(s):**
- PSTRIP
- PTRNCH

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$67,634  $67,634  $30,197  $30,197  $15,797  $15,797  $37,437  $37,437

**External Credits:** $0

**Reserve:**
- $37,437 Reserve of Work Report#: W0390.00271
- $37,437 Total Remaining

Status of claim is based on information currently on record.
Dear Sir or Madam

Subject: Approval of Assessment Work

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

Thank you for your prompt response to the 45 Day Notice dated April 11, 2003. The deficiencies outlined in the Notice have been corrected. Furthermore, your clarification of exploration expenses has resulted in the full original assessment credit amount being approved. Accordingly, assessment work credit has been approved as outlined on the Declaration of Assessment Work Form that accompanied this submission.

If you have any question regarding this correspondence, please contact STEVEN BENETEAU by email at steve.beneteau@ndm.gov.on.ca or by phone at (705) 670-5855.

Yours Sincerely,

Ron Gashinski
Senior Manager, Mining Lands Section

Cc: Resident Geologist
    Frederick Thomas Archibald
    (Agent)
    John Charles Archibald
    (Assessment Office)

Assessment File Library
John Charles Archibald
(Claim Holder)
Jeff N. Chesher
(Claim Holder)
TOPOGRAPHIC PLAN
OF
PART OF LOTS 5 & 6, CONCESSION 2
TOWNSHIP OF GALWAY
NOW IN THE TOWNSHIP OF GALWAY-CAVENDISH & HARVEY
COUNTY OF PETERBOROUGH
SCALE 1:400
METRIC: DISTANCES SHOWN HEREON ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.
J.B. FLEQUEL O.L.S.
2002

ELEVATIONS SHOWN HEREON ARE GEODETIC DERIVED FROM G.S.C. BENCHMARK No. 349-S. ELEVATION 301.39 A.M.S.L.

SURVEYOR'S CERTIFICATE
I CERTIFY THAT THIS SURVEY WAS COMPLETED ON DECEMBER 06, 2002
J.B. FLEQUEL
ONTARIO LAND SURVEYOR
SIGNED AT LAKEFIELD, ONTARIO THE 10th DAY OF DECEMBER, 2002

2.2502 m