

## **2008 DIAMOND DRILLING PROGRAM: ENID MASSEY PROPERTY – SANTRAP & ZED'OR GRIDS**

ENID & MASSEY TOWNSHIPS  
PORCUPINE MINING DIVISION, ONTARIO, CANADA



**Laurion Mineral Exploration Inc.**  
200 Royal Bank Plaza Bay Street  
Suite 2600  
Toronto, ON Canada M5J 2J4  
[www.laurion.ca](http://www.laurion.ca)

August 15<sup>th</sup>, 2008

Prepared By:



**Caracle Creek International Consulting Inc.**  
17 Frood Road, Suite 2  
Sudbury, Ontario, Canada P3C 4Y9  
+1.705.671.1801  
**Joerg Kleinboeck, B.Sc., P.Geo**



## TABLE OF CONTENTS

EXECUTIVE SUMMARY .....	2
1.0 INTRODUCTION .....	3
2.0 PROPERTY DETAILS .....	3
2.1 Location and Access .....	3
2.2 Topography and Vegetation .....	3
2.3 Claims .....	5
3.0 PREVIOUS WORK.....	7
4.0 GEOLOGY .....	8
4.1 Regional Geology .....	8
4.2 Property Geology .....	9
5.0 2008 DIAMOND DRILLING PROGRAM.....	10
5.1 Methods.....	10
5.2 Diamond Drilling .....	11
6.0 CONCLUSIONS.....	15
7.0 RECOMMENDATIONS.....	15
8.0 REFERENCES .....	16

## LIST OF FIGURES

Figure 1: Location of the Enid Massey Property.....	4
Figure 2: Enid-Massey Property .....	5
Figure 3: Regional Geology.....	9
Figure 3: Property Geology .....	10
Figure 4: 2008 Drill Hole Locations, Santrap Sector. ....	13
Figure 5: 2008 Drill Hole Locations, Zed’Or Sector.....	14

## LIST OF TABLES

Table 1: Claim details of the Enid-Massey Property .....	6
Table 2: Summary of diamond drill holes, Enid-Massey Property, Winter 2008. ....	11
Table 3: Summary of highest metal concentrations from Winter 2008 drilling. ....	13

## LIST OF APPENDICES

Appendix I Certificate of Qualifications
Appendix II Drill Logs
Appendix III Drill Sections
Appendix IV Assay Certificates

## MAPS (back pocket)

Map 1: Land Tenure
Map 2: Collar Locations and Traces for the 2008 Santrap Drill Program
Map 3: Collar Locations and Traces for the 2008 Zed’Or Drill Program



## **EXECUTIVE SUMMARY**

Caracle Creek International Consulting Inc. was contracted by Laurion Mineral Exploration Inc. (“Laurion”) to implement a diamond drilling program on their Enid-Massey Property.

The Enid-Massey Property (“property”) has potential for Ni-Cu-PGM mineralization hosted in gabbros, and volcanogenic massive sulphide (VMS) mineralization hosted in mafic and felsic volcanics.

The property is located in Enid, Massey, Cote and Fortune Townships in the Porcupine Mining Division, about 35 km west of Timmins, Ontario (Figure 1). It is bounded by UTM NAD83 coordinates 17U 430000E to 447000E and 5373000N to 5384000N. The property consists of 56 staked mineral claims containing 589 units approximately 9535 Ha in area, as well as 11 contiguous optioned leased mineral claims approximately 176 Ha in area.

Diamond drilling commenced on January 16<sup>th</sup>, 2008 and was completed by January 31<sup>st</sup>, 2008.

A total of 921 m of diamond drilling was completed in 8 drill holes. The drilling program was designed to test IP anomalies coinciding with previously identified AeroTEM EM anomalies. The program was split into two sectors, Santrap and Zed’Or with 5 holes totalling 630 m being completed on the Santrap sector, and 3 holes totalling 291 m on the Zed’Or sector.

Weakly anomalous copper, nickel, and zinc values were intersected in diamond drill holes SA08-01 and ZE08-01. The most significant intersection in terms of base metal mineralization was 7 ppb Au, 2.44 ppm Ag, 239 ppm Cu, 93 ppm Ni, and 1112 ppm Zn over 1.0m in diamond drill hole ZE08-01.



## **1.0 INTRODUCTION**

Laurion began to acquire the property in 2005 through staking and option agreements. Several phases of surface and diamond drilling programs have been completed by Laurion on the property.

Most of the conductors tested by diamond drilling were explained by the presence of semi-massive to massive sulphides, usually consisting of pyrrhotite with lesser amounts of pyrite. The sulphides are typically anomalous in one or more of Cu, Zn, Ag, and Au.

A diamond drilling program was completed on the property from January 16<sup>th</sup> to 31<sup>st</sup>, 2008, and is the basis of this report.

## **2.0 PROPERTY DETAILS**

### **2.1 Location and Access**

The property is located in Enid, Massey, Cote and Fortune Townships in the Porcupine Mining Division, about 35 km west of Timmins, Ontario (Figure 1). The property occurs in NTS 42 A/12 and is bounded by UTM NAD83 coordinates 17U 430000E to 447000E and 5373000N to 5384000N.

The property has been broken up into different sectors. These include the Fortune-Tyche, Santrap, Baktrian, Cote-Bihar, Biaz, Pero, Talaos, Zed’Or, Argos West, and Argos East (Map 2).

Excellent all year round access to most of the property can be gained from Timmins by driving west on Highway 101 and then turning north onto the Malette Road (also known as the Montcalm Mine Road). The Malette Road is an all weather gravel road, and traverses the Enid-Massey property from about the 31 to 44 km stations. Access to the drill sites reported herein can be reached by a series of trails located off of the Malette Road. A winter road at the 31 km station provided access to the Zed’Or grid, and a trail at the 43 km station provided access to the Santrap grid.

A full range of services, supplies, and accommodations are provided in the city of Timmins.

### **2.2 Topography and Vegetation**

The local terrain is typical of the Precambrian Shield, with low rolling hills and marshy areas. Vegetation on higher ground consists of a variety of hardwoods such as poplar and birch, with coniferous trees that include spruce and balsam. In the lower ground, typically more wet in character, black spruce, tamarack, alder swales, and cedar predominate. Water for exploration purposes is available from beaver ponds, marshes, and small streams that are located on the property.



Snowfall generally begins in November and extends into late March, early April. Lakes are usually passable with adequate ice thickness from late December through to late March. Between 50 and 100 mm of monthly rainfall is normal from April to October. The mean temperature is  $-13^{\circ}\text{C}$  in January and  $19^{\circ}\text{C}$  in July.



Figure 1: Location of the Enid Massey Property.

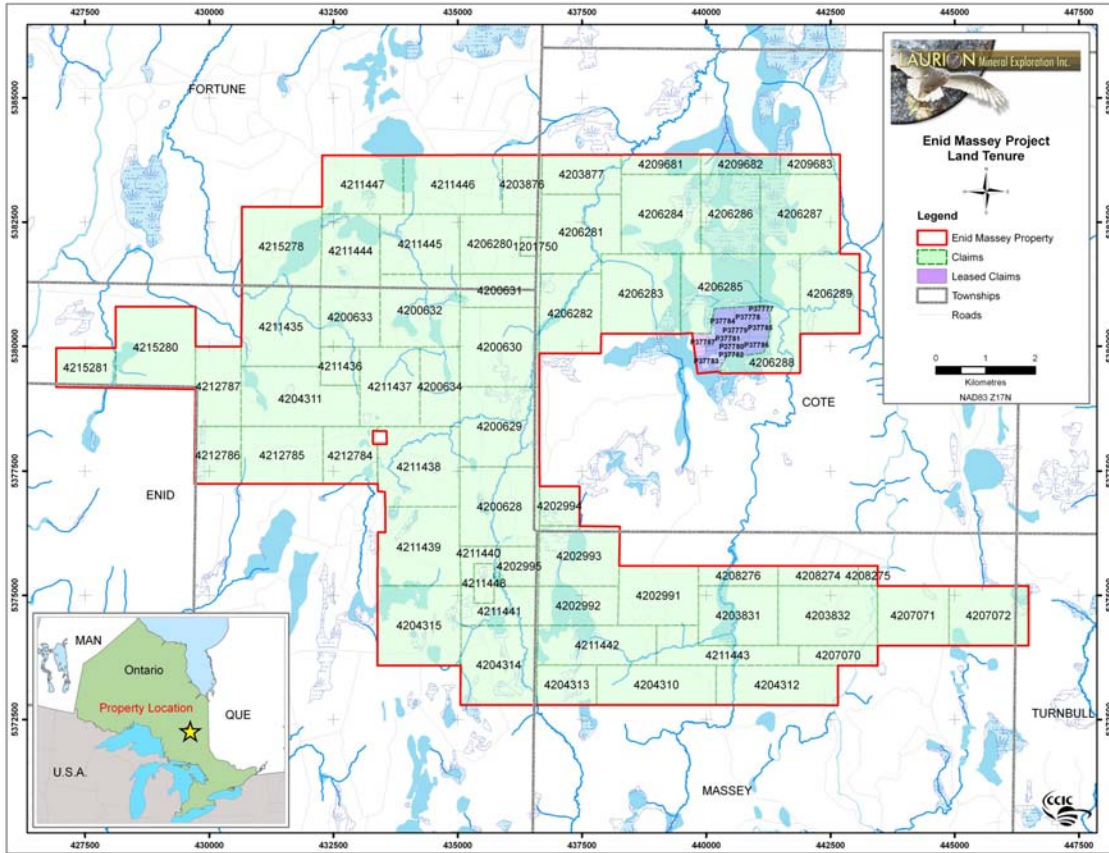


Figure 2: Enid-Massey Property

### 2.3 Claims

The property consists of 56 staked mineral claims containing 589 units, or approximately 9535 hectares and 11 contiguous optioned leased mineral claims.

The claims are located in Enid, Massey, Cote and Fortune Townships in the Porcupine Mining Division (Figure 2, Table 1).

Laurion assembled the property between 2005 and 2007 through option agreements and staking. Laurion is the recorded holder of the claims and has the right to earn 100% undivided interest on the optioned claims subject to 1 to 3% net smelter returns in favour of the original vendors.



Table 1: Claim details of the Enid-Massey Property

Claim #	Units	Township	Due Date	Work Req'd	Reserve
4209681	4	Cote	2-Mar-10	1,600	0
4209682	4	Cote	2-Mar-10	1,600	0
4209683	3	Cote	2-Mar-10	1,200	0
4200628	16	Enid	11-Mar-10	6,400	0
4200629	16	Enid	11-Mar-10	6,400	0
4200630	16	Enid	11-Mar-10	6,400	0
4200631	8	Fortune	11-Mar-10	3,200	0
4200632	16	Fortune	11-Mar-10	6,400	17,191
4200633	9	Enid	11-Mar-10	3,600	0
4200634	8	Enid	11-Mar-10	3,200	0
4202991	12	Massey	11-Mar-10	4,800	0
4202992	8	Massey	11-Mar-10	3,200	0
4202993	12	Massey	11-Mar-10	4,800	0
4202994	4	Cote	11-Mar-10	1,600	0
4202995	4	Enid	11-Mar-10	1,600	0
4206280	11	Fortune	2-May-10	4,400	0
4206281	15	Cote	2-May-10	6,000	0
4206282	12	Cote	2-May-10	4,800	0
4206283	16	Cote	2-May-10	6,400	0
4206284	16	Cote	2-May-10	6,400	0
4206285	13	Cote	2-May-10	5,200	0
4206286	12	Cote	2-May-10	4,800	0
4206287	16	Cote	2-May-10	6,400	0
4206288	13	Cote	2-May-10	5,200	0
4206289	12	Cote	2-May-10	4,800	0
4203831	12	Massey	16-May-10	4,800	0
4203832	15	Massey	16-May-10	6,000	0
4211435	16	Enid	22-Jun-09	6,400	0
4211436	4	Enid	22-Jun-09	1,600	0
4211437	12	Enid	22-Jun-09	4,800	0
4211438	16	Enid	22-Jun-09	6,400	0
4211439	16	Enid	22-Jun-09	6,400	0
4211444	11	Fortune	22-Jun-09	4,400	0
4211445	12	Fortune	22-Jun-09	4,800	0
4211446	15	Fortune	22-Jun-09	6,000	0
4211447	12	Fortune	22-Jun-09	4,800	0
4211448	2	Enid	22-Jun-09	800	0
4211440	3	Enid	23-Jun-09	1,200	0
4211441	7	Enid	23-Jun-09	2,800	0
4211442	12	Massey	23-Jun-09	4,800	0
4211443	8	Massey	23-Jun-09	3,200	0
4208274	4	Massey	26-Jun-09	1,600	0
4208275	1	Massey	26-Jun-09	400	0
4208276	4	Massey	26-Jun-09	1,600	0
4204310	12	Massey	1-Aug-09	4,800	0





4204311	16	Enid	17-Jul-09	6,400	61,108
4204312	12	Massey	1-Aug-09	4,800	0
4204313	6	Massey	1-Aug-09	2,400	0
4204314	16	Enid	1-Aug-09	6,400	0
4204315	16	Enid	1-Aug-09	6,400	0
4203876	6	Fortune	28-Nov-09	2,400	0
4203877	8	Cote	28-Nov-09	3,200	0
4207070	4	Massey	28-Nov-09	1,600	0
4207071	12	Massey	28-Nov-09	4,800	15,984
4207072	12	Turnbull	28-Nov-09	4,800	13,567
4215280	16	Enid	5-Jan-10	6,400	0
4215281	6	Enid	5-Jan-10	2,400	0
4212784	9	Enid	8-Jan-10	3,600	0
4212785	12	Enid	8-Jan-10	4,800	0
4212786	7	Enid	8-Jan-10	2,800	0
4212787	9	Enid	8-Jan-10	3,600	0
4212788	7	Enid	8-Jan-10	2,800	0
4215278	16	Fortune	8-Jan-10	6,400	2,274
1201750	1	Fortune	30-Aug-09	400	6,800

### 3.0 PREVIOUS WORK

**1930:** Hollinger Mines optioned the property from prospector George Sweet located in Laurion’s Baktrian sector. The property contained two Cu-Ni showings to Hollinger Mines. Hollinger drilled four shallow diamond drill holes, one under the northwestern showing and three under the southeastern showing. Results are unknown.

**1952:** Hollinger Mines again optioned the above property from A. Lepic and E. Gagnon of Timmins, Ontario, and carried out geologic mapping, ground magnetometer surveys and limited trenching.

**1955: Dominion Gulf Company** staked the area above area and during 1955 and 1956 carried out detailed geological mapping and ground magnetometer surveys. Authors of both reports concluded that the gabbros in the area had potential for containing sulphide deposits, especially along the contact between the gabbro and the greenstone, and both authors recommended doing an EM survey. There is no indication that the recommendations were followed up.

**1964: Magnet Consolidated, Yukeno and New Rouyn Merger Mines Ltd.** carried out ground Magnetic, Sharpe SE-200 EM and Ronka Mark IV EM on a portion of 17 claims located in the area of Laurion’s Argos sector. At least one attractive EM conductor was found and a program of geochemical soil sampling was recommended. There is no indication of further work.





**1965: Globe Exploration & Mining Company Ltd.** carried out soil sampling on the area of Laurion’s Argos Sector. No geochemical anomalies of interest were reported. A ground magnetic and EM survey was also completed. Three diamond drill holes totaling 1500 feet were completed. The core was logged as mainly greywacke with minor granitic rocks. References to the presence of pyrite, pyrrhotite, quartz and chalcopyrite, were noted, but no indications of probable concentrations. Only 7 samples were submitted for assay, and results are not known.

**1965: Mespi Mines Limited** carried out regional airborne geophysical surveys in the northeast corner of Enid Township, including a portion of the northeast corner of the Baktrian Sector, and the Santrap sector. The south-central part of the survey over flew LME’s Santrap Sector, and located only two weak conductors. They did not follow up on these conductors.

**1977: Noranda Exploration Co. Ltd** drilled two short X-Ray drill holes into the Santrap sector. Exact location is unknown but is believed to be near current hole SA-06-02. They reported basalt, silicified tuff, felsic porphyries, oxide iron formation and “a few narrow sections display fair conductivity” They found “up to 5% sulphide mineralization, chiefly pyrite with some chalcopyrite”. Their drill logs show only two samples assayed, one of which is weakly anomalous in Ag, Cu and Zn.

**2005-2007:** Laurion Mineral Exploration Inc. carried out an AeroTEM geophysical survey, completed linecutting, and ground geophysics consisting of MaxMin II, magnetics, and IP. Twenty six diamond drill holes were completed in the Santrap, Argos, Baktrian, and Biaz sectors. Anomalous Cu, Zn, Ag and Au values were intersected.

## **4.0 GEOLOGY**

### **4.1 Regional Geology**

Supracrustal rocks of the area belong to the Kamiskotia Volcanic Complex (KVC), a bimodal assemblage, including tholeiitic basalts and subordinate basaltic andesites and andesites, and high silica rhyolites. The KVC is intruded by a large layered tholeiitic intrusion known as the Kamiskotia Gabbroic Complex (KGC). The northern part of the KGC is, in turn, intruded by a large, oval shaped granophyric body which may be coeval with the KGC and may be the uppermost, volatile-rich portion of the same body (Barrie, 2000)

Four volcanogenic copper-zinc+/-silver+/-gold deposits, including the Kam-Kotia Mine have been mined from rocks of the KVC.

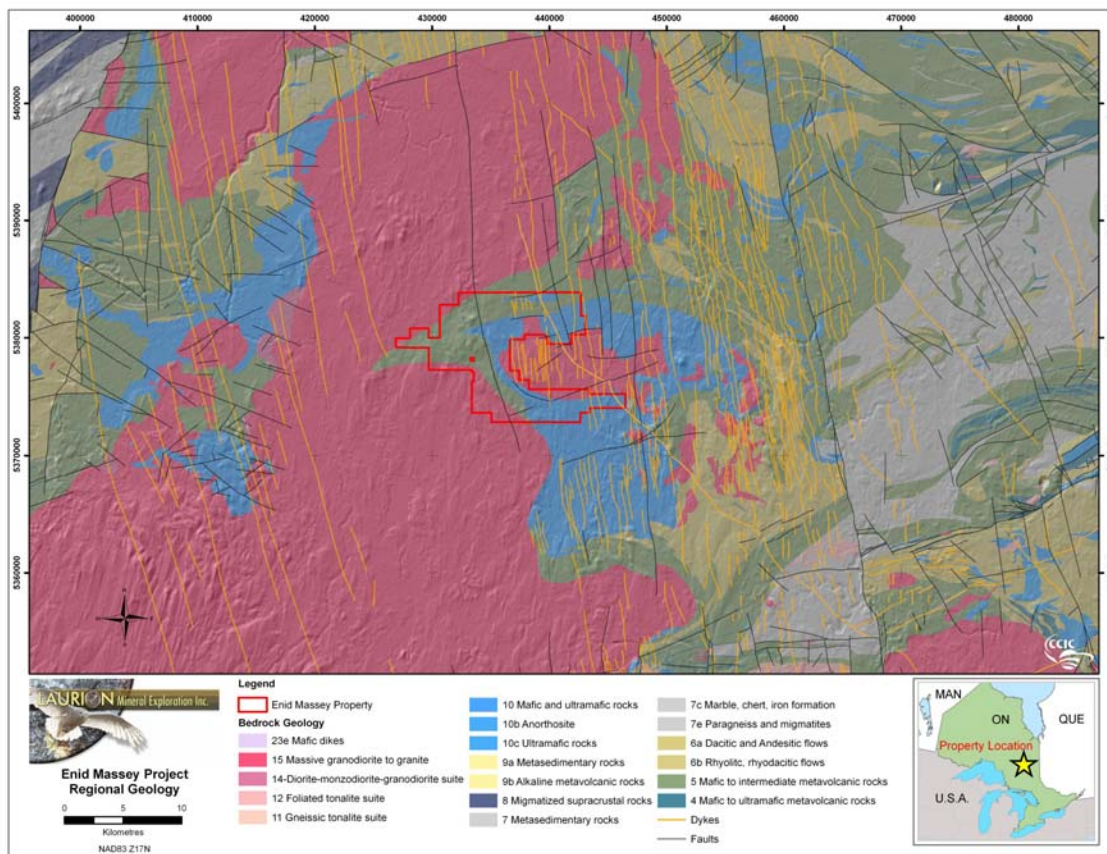


Figure 3: Regional Geology

## 4.2 Property Geology

Much of the Enid-Massey property is underlain by the northern portion of the Kamiskotia Gabbroic Complex. In this area the KGC consists of Upper Zone mesocumulus and orthocumulus gabbro-norites and ferroan gabbro-norites (Barrie, 2000). In northeastern Enid township it is common to find coarse grained pegmatoid leucogabbros with frequent massive to near massive clots many cm in diameter consisting of magnetite or ilmenite, or a mixture of the two. Rarely, lensoid concentrations of near massive pyrrhotite contain up to 1.5% combined Cu-Ni.

Due to a lack of exploration and large areas covered by swamp or glacial outwash sands, little is known of the volcanic rocks surrounding the KGC. It may be reasonably assumed that the KVC wraps around the north and west portions of the gabbro and may have similar potential for volcanogenic massive sulphide deposits as found in the Kam-Kotia Mine area (Tihor, 2007).

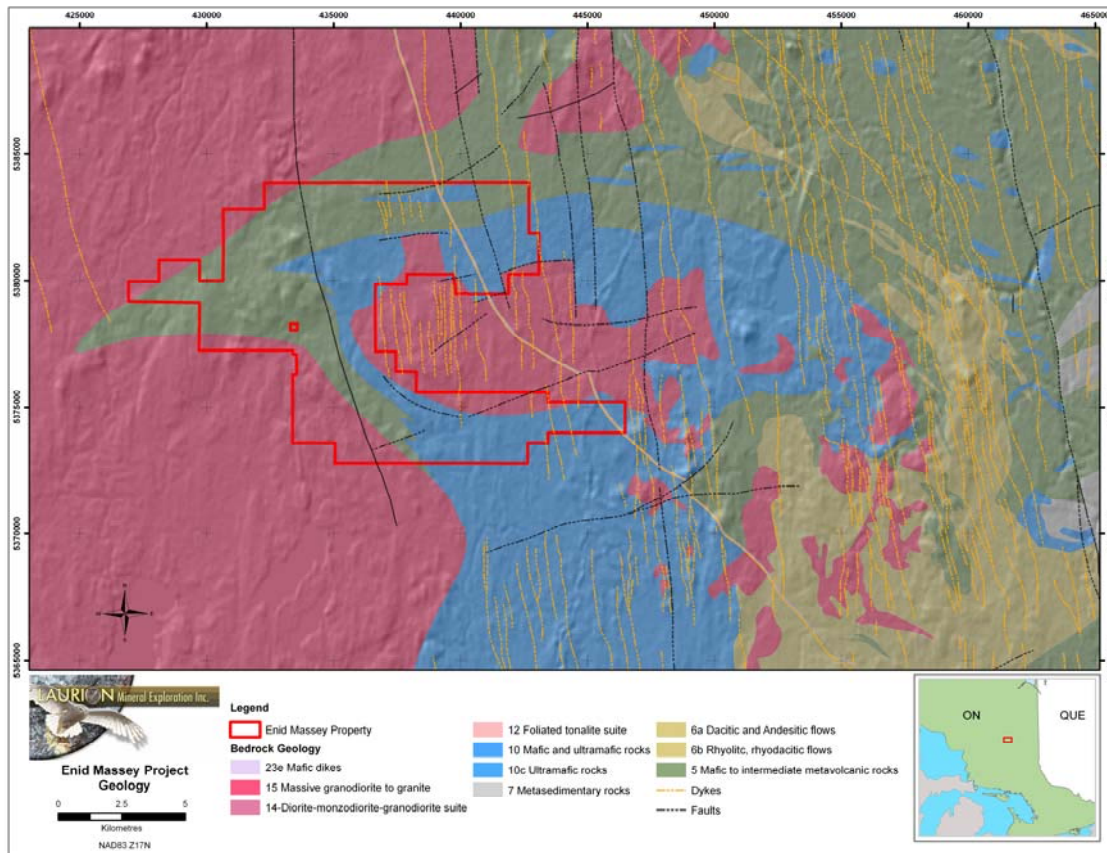


Figure 3: Property Geology

## 5.0 2008 DIAMOND DRILLING PROGRAM

### 5.1 Methods

A total of 8 diamond drill holes, totalling 841 m of drill core (Table 2), were completed on the property between January 16<sup>th</sup> and 31<sup>st</sup>, 2008. The program was split into two sectors, Santrap and Zed’Or with 5 holes totalling 630 m being completed on the Santrap sector, and 3 holes totalling 291 m on the Zed’Or sector. The drill holes completed on the Santrap sector include SA08-01 through to SA08-05, and the drill holes completed on the Zed’Or sector include ZE08-01 through to ZE08-03.

Map 3, located in the back pocket of this report, provides the drill hole locations and their respective projections to surface. Most of the holes were situated along cut grid lines using grid coordinates to locate the collars. Collars were surveyed by hand held GPS after the drill rig was moved off of the collar. A Flexit survey was used to measure the spatial relationships to the drill holes ([www.flexit.se](http://www.flexit.se)).

Drill core (NQ = 4.76cm diameter) was transported from the drill site by skidder and later by pickup truck to the core shack on the Davidson-Tisdale Mine site. Prior to transportation, the core boxes were fitted with lids and wired closed. Once on the core shack, the core was unloaded and put into a metal rack for storage prior to logging. All



eight diamond drill holes were logged, and the detailed logs for holes SA08-01 through to SA08-05, and ZE08-01 through to ZE08-03 can be found in Appendix II. The logging data was directly entered in an Excel spreadsheet using a laptop computer. Cross sections and assay certificates are provided in Appendix III and Appendix IV respectively.

Table 2: Summary of diamond drill holes, Enid-Massey Property, Winter 2008.

DDH	Easting	Northing	ELEV (m)	AZ	DIP	LENGTH (m)
SA08-01	431306	5379041	344	210	-50	153.0
SA08-02	430766	5378748	346	180	-50	177.0
SA08-03	431620	5379348	334	210	-50	99.5
SA08-04	431728	5379521	335	210	-50	107.0
SA08-05	431964	5378971	370	210	-50	93.5
ZE08-01	442432	5374234	300	360	-50	102.0
ZE08-02	442431	5374360	299	360	-50	100.0
ZE08-03	442630	5374242	297	360	-50	89.0

A total of 176 core samples were submitted for analysis. Samples were cut and sampled using a table mounted hydraulic splitter. Over the sample interval, one half of the core was placed into individual labelled plastic bags with a corresponding sample tag inserted. The bags were then stapled shut, and placed into burlap bags. The samples were then delivered by a logistics company to Accurassay Laboratories processing facility in Lively, Ontario.

Once the core had been logged and sampled, metal tags were attached inscribed with the hole number, box number, and corresponding interval. The core was then cross piled and stored on the mine site.

Core samples were prepared and assayed selectively for base and precious metals by Accurassay Laboratories in Thunder Bay, Ontario. Platinum, palladium, and gold were done using fire assay (lead collection). Base metals were completed by using an Aqua Regia dissolution with an ICP (Inductively Coupled Plasma) finish. Alternating blank and standard check samples were submitted over the intervals at every tenth sample as a quality control measure. Of the 176 samples that were submitted, 9 samples were standards, and 8 were blanks. The standard that was used was CDN-SE-2 and was purchased at Canadian Resource Laboratories located in Vancouver, B.C. The details of the standard are found in Appendix IV, Assay Certificates.

## 5.2 Diamond Drilling

The drilling program was designed to test IP anomalies coinciding with previously identified AeroTEM II EM anomalies. The program was split into two sectors, Santrap and Zed’Or with 5 holes totalling 630 m being completed on the Santrap sector, and 3 holes totalling 291 m on the Zed’Or sector.





Drill holes SA08-01 through to SA08-05 were collared on the Santrap grid, and ZE08-01 through to ZE08-03 were collared on the Zed’Or grid.

Diamond drill hole SA08-01 was collared at 2+00W, 5+35N. The hole was drilled with an azimuth of 210° and dip of -50°. The hole was drilled to a depth of 153.0 m. Sulphides consisted dominantly of trace to 1% finely disseminated and remobilized pyrite and pyrrhotite. No significant values were returned.

Diamond drill hole SA08-02 was collared at 5+00W, BL 0. The hole was drilled with an azimuth of 180° and dip of -50°. The hole was drilled to a depth of 177.0 m. Sulphides consisting of up to 1% disseminated pyrite and chalcopyrite were intersected from 42.3 to 45.0 m. No significant values were returned.

Diamond drill hole SA08-03 was collared at 1+00W, 9+70N. The hole was drilled with an azimuth of 210° and dip of -50° to a depth of 99.5 m. Sulphides consisting of pyrite and pyrrhotite up to 5% over 40cm were intersected, as well as some more minor sections. No significant values were returned.

Diamond drill hole SA08-04 was collared at 1+00W, 11+70N. The hole was drilled with an azimuth of 210° and dip of -50° to a depth of 107.0 m. A 4.9 m long section hosted in a felsic tuff contained up to 2% disseminated and wispy pyrrhotite and pyrite. No significant values were returned.

Diamond drill hole SA08-05 was collared at 4+00E, 8+35N. The hole was drilled with an azimuth of 210° and dip of -50° to a depth of 93.5m. Minor sulphide mineralization was observed. No significant values were returned.

Diamond drill hole ZE08-01 was collared at L7+00E, 2+65N. The hole was drilled with an azimuth of 000° and dip of -50° to a depth of 102.0 m. Minor sulphide mineralization consisting of disseminated and wispy pyrite and pyrrhotite was noted. No significant values were returned.

Diamond drill hole ZE08-02 was collared at L7+00E, 3+90N. The hole was drilled with an azimuth of 000° and dip of -50° to a depth of 100.0 m. Up to 5% disseminated to locally net-textured pyrrhotite and pyrite was noted. No significant values were returned.

Diamond drill hole ZE08-03 was collared at L9+00E, 2+70N. The hole was drilled with an azimuth of 000° and dip of -50° to a depth of 89.0 m. Up to 8% locally disseminated and wispy pyrrhotite and pyrite hosted in a felsic volcanic were intersected. No significant values were returned.

Figure 4 and 5 display the drill hole locations from the recently completed drilling program.



Table 3: Summary of highest metal concentrations from Winter 2008 drilling.

DDH	From (m)	To (m)	Int (m)	Au (ppb)	Ag (ppm)	Cu (ppm)	Ni (ppm)	Zn (ppm)
SA08-01	56.0	57.0	1.0	17	1.25	621	603	47
ZE08-01	44.0	45.0	1.0	7	1.66	138	52	1161
ZE08-01	45.0	46.0	1.0	7	2.44	239	93	1112
ZE08-01	69.0	70.0	1.0	9	1	104	50	1187

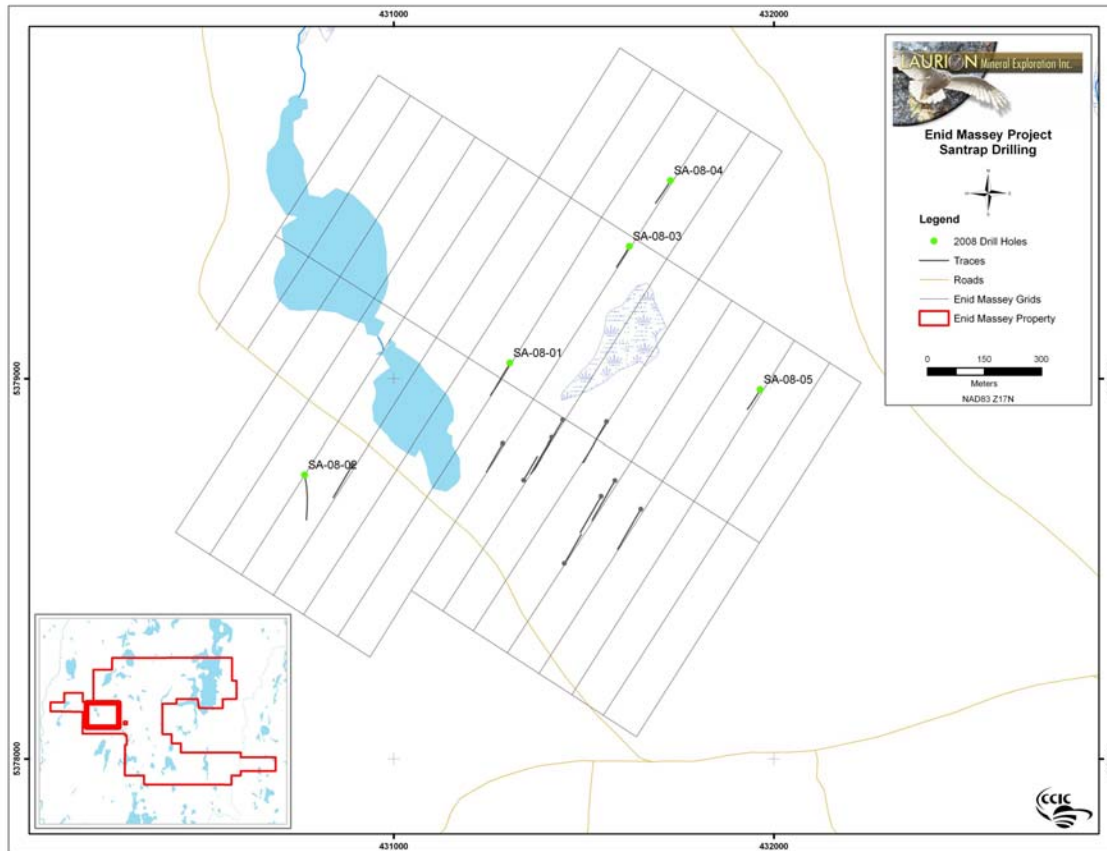


Figure 4: 2008 Drill Hole Locations, Santrap Sector.

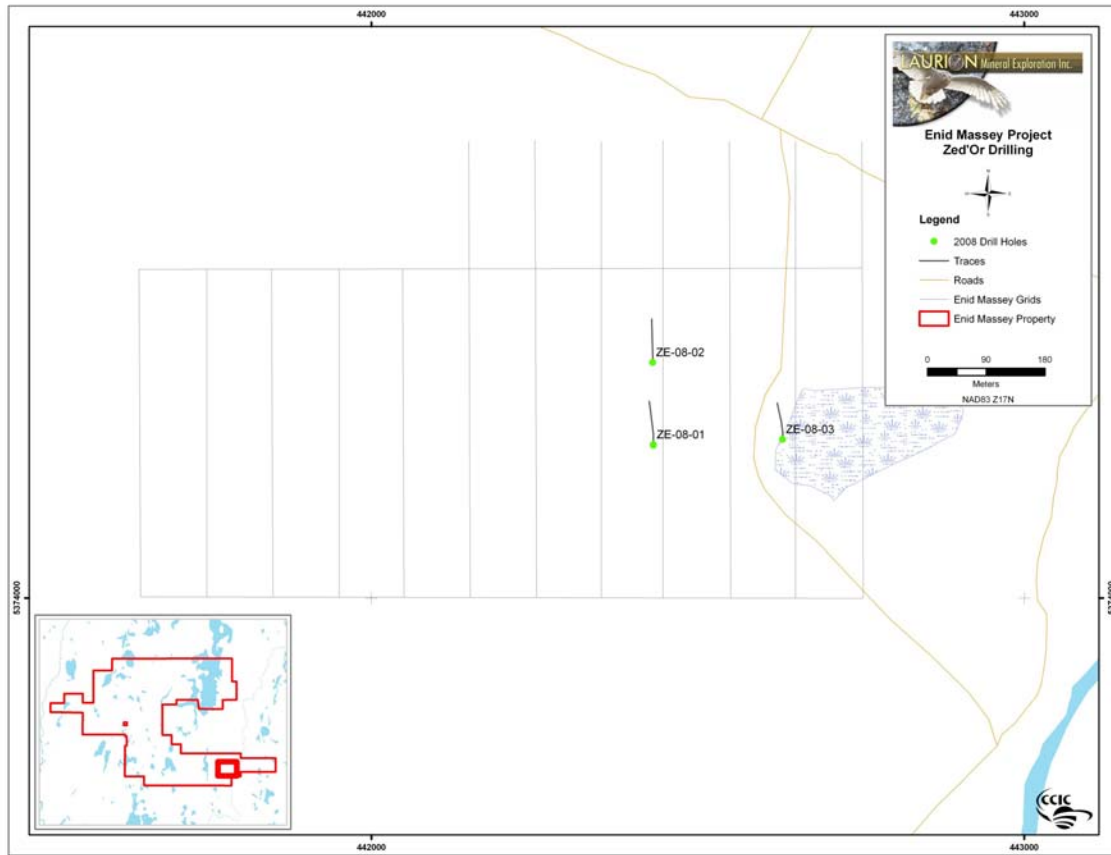


Figure 5: 2008 Drill Hole Locations, Zed’Or Sector.





## **6.0 CONCLUSIONS**

The principal conclusions of the Winter 2008 Enid Massey Property drilling program are as follows:

- 1) The drilling of the ground IP anomalies for the most part was explained by the presence of disseminated to banded sulphides. Drill hole SA08-01 and ZE08-01 intersected anomalous zones of copper, nickel, and zinc mineralization.

## **7.0 RECOMMENDATIONS**

The following recommendations can be made on the basis of the Winter 2008 exploration program completed in on the Santrap and Zed’Or sectors:

- 1) No further work is recommended on these two sectors. Further work on the property should concentrate along the northern part of the property and in the Cote-Bihar sector in the area of the C-9 sulphide showing.



## **8.0 REFERENCES**

Barrie, C.T. 2000. Geology of the Kamiskotia area; Ontario Geological Survey, Study 59, 79 p.

Tihor, L.A. 2008. A Report on the Laurion Mineral Exploration Inc. 2007 Diamond Drilling Program, Enid-Massey Project.

Wolfe, W.J. 1970. Distribution of copper, nickel, cobalt, and sulphur in mafic intrusive rocks of the Kamiskotia-Whitesides area, District of Cochrane; Ontario Department of Mines, Miscellaneous Paper 44, 29 p.



# **Appendix I**

## **Statement of Qualifications**



## STATEMENT OF QUALIFICATIONS

I, Joerg Martin Kleinboeck of 800 Peninsula Road, North Bay, Ontario, do hereby certify that:

I am a practising consulting geologist with Caracle Creek International Consulting Inc. of Sudbury, Ontario.

I am a graduate of Laurentian University, Sudbury, Ontario with a B.Sc. Geology, 2000, and have been practising my profession as a geologist since.

I am a member with the Association of Professional Geoscientists of Ontario (#1411).

I am a member of the Prospectors & Developers Association of Canada (PDAC).

I have an active prospector’s license for the province of Ontario (#1002600).

I hold no interests in the properties or securities of Laurion Mineral Exploration Inc.

Joerg Martin Kleinboeck  
August 15<sup>th</sup>, 2008  
North Bay, Ontario



## **Appendix II**

### **Drill Logs**

Laurion Mineral Exploration Inc.

Property Enid-Massey Property  
 Location Santrap  
 Claim # 4204311  
 Grid Coord: L2+00W, 5+35N  
 UTM: 431306E, 5379041N  
 Azimuth/Dip 210/-50  
 Total Depth 153.0m NQ core size  
 Core stored on Davidson Tisdale Mine Property

Depth	Tool Azi.	Cor. Azi.	Dip	Mag.
0.0	210.0	210.0	-50.0	NA
60.0	223.3	211.3	-49.4	58210
105.0	222.5	210.5	-49.5	57800
153.0	225.0	213.0	-49.2	56330

Diamond Drill Hole SA-08-01 Sheet: 1 of 3  
 Elev. Collar: 334m  
 Datum NAD83  
 Date Started 16/1/2008  
 Date Completed 18/1/2008  
 Drilled by Lafreniere Drilling  
 Logged by J.Kleinboeck

Interval (meters)		Formation	Sample Number	Sample Interval (m)		Assays				
From	To			From	To	Au(ppb)	Ag(ppm)	Cu(ppm)	Ni(ppm)	Zn(ppm)
0.0	28.0	OB - Overburden, Casing driven to 28.0m, left in hole.								
28.0	30.9	<b>FP11</b> - Quartz-Feldspar Porphyritic Dyke pinkish grey, medium grained, massive to moderately foliated @ 35 deg TCA local irregular shaped fragments of dark grey fine grained mafic basalt attenuated parallel to foliation unmineralized, non-magnetic lower contact gradational, partially digested.								
30.9	31.7	<b>VF(TUF)</b> - Felsic Tuff white to grey, very fine grained to aphanitic, strongly silicified, well bedded @ 45 deg TCA trace diss py, generally unmineralized non-magnetic lower contact broken								
31.7	58.8	<b>VM1(TUF,SIL)</b> - Basalt grey to green, very fine grained silicified mafic tuffs with minor interbedded felsic tuffs <1cm in thickness fractures 3-5/m, generally @ 30 & 45 deg TCA moderate quartz + carbonate veinlets throughout local trace disseminated pyrite associated with quartz + carbonate veinlets, and along chlorite slips. non-magnetic heavily fractured from 32.6-32.9m 43.6-45.7m grey to green mg moderately foliated diabase dyke @ 40 deg TCA fault zone from 45.7-46.0m, locat chloritic gouge	263501	48.0	49.0	5	1.27	291	198	75
			263502	49.0	50.0	33	1.37	260	312	83
			263503	50.0	51.0	9	<1	239	194	41
			263504	51.0	52.0	12	1.01	180	76	45
			263505	52.0	53.0	15	1.3	545	507	40
			263506	53.0	54.0	5	1.05	237	345	86
			263507	54.0	55.0	9	<1	199	391	61
			263508	55.0	56.0	7	<1	166	181	46
			263509	56.0	57.0	17	1.25	621	603	47
			263510	Standard CDN-SE-2		146	304.3	405	35	10964
			263511	57.0	58.0	13	<1	245	245	47







Laurion Mineral Exploration Inc

Property Enid-Massey Property  
 Location Santrap  
 Claim # 4204311  
 Grid Coord: L5+00W / 0+00  
 UTM: 430766E, 5378748N  
 Azimuth/Dip 180/-50  
 Total Depth 177.0m NQ core size  
 Core stored on Davidson Tisdale Mine Property

Depth	Tool Azi.	Cor. Azi.	Dip	Mag.
0.0	180.0	169.0	-50.0	NA
51.0	185.5	173.5	-48.4	51960
102.0	192.6	180.6	-47.1	56170
150.0	195.6	183.6	-45.6	56370

Diamond Drill Hole SA-08-02 Sheet: 1 of 3  
 Elev. Collar 346m  
 Datum NAD83  
 Date Started 23/1/2008  
 Date Completed 25/1/2008  
 Drilled by Lafreniere Drilling  
 Logged by J.Kleinboeck

Interval (meters)		Formation	Sample Number	Sample Interval (m)		Assays				
From	To			From	To	Au(ppb)	Ag(ppm)	Cu(ppm)	Ni(ppm)	Zn(ppm)
0.0	3.0	OB - Overburden, Casing driven to 3.0m, left in hole.								
3.0	45.0	VM (TUF) - Mafic Tuff dark green fine to medium grained mafic tuff with minor sections of massive mafic flows and local interbedded felsic tuffs bedding/foliation well developed @ 50 deg TCA local quartz veinlets up to 10 cm in with, generally <1cm 3.4-3.9m dark green to black vfg plag phyric diabase dyke @ 55 deg TCA. Plag phenos up to 1cm in size. 42.6-45.0m - 20% quartz and mottled quartz+kspars veins @ 45 deg TCA 42.6-45.0m - moderate pervasive epidote + sericite 3.0-42.3m - generally unmineralized with trace py along fractures and remobilized with quartz veins. 42.3-44.1m - 1% diss + wispy py 44.1-44.5m - 2-3% diss py + cp associated with ~40cm mottled quartz+kspars vein 44.5-45.0m - trace diss py lower contact sharp but broken								
			263574	39.0	40.0	<5	1.46	152	60	58
			263575	40.0	41.0	6	1.26	149	40	51
			263576	41.0	42.0	40	1.73	151	60	72
			263577	42.0	43.0	6	1.31	77	93	72
			263578	43.0	44.0	9	1.24	311	60	62
45.0	50.7	VM - Basalt dark green fine grained massive to foliated mafic flow. foliated sections at 50 deg TCA, non-mineralized lower contact sharp @ 45 deg TCA.	263579	44.0	44.5	9	1.47	81	39	56
			263580	Blank		<5	<1	5	<1	<1
			263581	44.5	45.5	10	1.41	88	41	58
			263582	45.5	46.5	9	1.73	156	47	60
			263583	46.5	47.5	8	1.62	163	77	60
50.7	70.0	VM(TUF) - dark green fine grained mafic tuff with 20% interbedded siliceous felsic tuffs irregular quartz vein from 51.1-51.3m with 30% blebby py+po 56.8-57.1, 57.8-58.0, 68.2-69.1m - grey quartz porphyry dykes @ 45 deg TCA occasional quartz veinlets <2cm in thickness	263584	47.5	48.5	12	1.47	118	65	58
			263585	48.5	49.5	11	1.44	142	38	55
			263586	49.5	51.0	11	1.87	182	50	76
			263587	51.0	51.6	9	2.62	564	79	92





Laurion Mineral Exploration Inc

Property Enid-Massey Property  
 Location Santrap  
 Claim 4204311  
 Grid Coord: L1+00W / 9+70N  
 UTM: 431620E, 5379348N  
 Azimuth/Dip 210/-50  
 Total Depth 99.5m NQ core size  
 Core stored on Davidson Tisdale Mine Property

Depth	Tool Azi.	Cor. Azi.	Dip	Mag.
0.0	210.0	210.0	-50.0	NA
51.0	224.5	212.5	-49.9	55830
93.0	223.2	211.2	-49.2	56420

Diamond Drill Hole SA-08-03 Sheet: 1 of 2  
 Elev. Collar 334m  
 Datum NAD83  
 Date Started 19/1/2008  
 Date Completed 20/1/2008  
 Drilled by Lafreniere Drilling  
 Logged by J.Kleinboeck

Interval (meters)		Formation	Sample Number	Sample Interval (m)		Assays				
From	To			From	To	Au(ppb)	Ag(ppm)	Cu(ppm)	Ni(ppm)	Zn(ppm)
0.0	9.0	OB - Overburden, Casing driven to 9.0m, left in hole.								
9.0	24.1	VM1 - Basalt dark grey to green fine to medium grained massive to fol'd mafic flow with minor interbedded felsic tuffs heavily fractured from 19.4-24.1m local weak pervasive quartz + carbonate veinlets <1cm in thickness throughout fol'n moderately developed from 13.0-24.1m non-magnetic, trace pyrite along fractures, generally unmineralized. minor quartz veining throughout <10cm in thickness. lower contact broken.								
24.1	85.0	VM(TUF) - Mafic Tuff	263544	46.6	47.6	15	1.27	113	28	69
		green very fine grained mafic tuff with 10-15% interbedded silicified felsic tuff	263545	47.6	48.0	14	2.73	301	58	124
		trace diss py, generally unmineralized	263546	48.0	49.0	11	1.14	108	31	183
		bedding well developed @ 45 deg TCA, moderate quartz carb veining <1cm in thickness dominantly oriented parallel to bedding. Non-magnetic	263547	83.0	84.0	8	<1	61	38	112
		heavily fractured from 24.1-26.0m	263548	84.0	84.3	11	1.84	580	70	90
		28.3-29.7m - white and grey quartz-feldspar porphyry dyke @ 40 deg TCA.	263549	84.3	85.5	9	1.06	66	25	86
		47.6-48.0m - 5% stringer po+py	263550	Standard -	CDN-SE-2	237	129.17	412	28	12885
		53.0-54.8m - strong pervasive biotite	263551	85.5	86.5	9	1.04	62	25	69
		57.2-57.5m - irreg quartz vein with local kspar and remobilized trace cp	263552	86.5	87.5	9	1.14	85	40	79
		80.85-80.90m - 3cm thick irreg qtz vein with 5% remobilized po+cp	263553	87.5	88.5	11	1.47	97	49	316
		84.10-84.20m - 6cm thick irreg atv vein generally @ 20 deg with 20% remobilized blebby po+cp as	263554	88.5	89.5	13	2.11	477	86	71
		84.20-84.30m - 5% stringer po+ py in host rock	263555	89.5	90.5	12	1.88	106	64	66
		lower contact sharp @ 45 deg TCA.	263556	90.5	91.5	9	1.31	53	39	36
			263557	91.5	92.5	9	1.3	93	45	32













Laurion Mineral Exploration Inc.

Property Enid-Massey Property  
 Location ZED'or  
 Claim # 4203832  
 Grid Coord: L7+00E / 2+65N  
 UTM: 442432E, 5374234N  
 Azimuth/Dip 360/-50  
 Total Depth 102.0m NQ core size  
 Core stored on Davidson Tisdale Mine Property

Depth	Tool Azi.	Cor. Azi.	Dip	Mag.
0.0	360.0	360.0	-50.0	NA
51.0	4.6	352.6	-48.8	56960
102.0	4.6	352.6	-47.9	57910

Diamond Drill Hole ZE-08-01

Sheet: 1 of 2

Elev. Collar 300m  
 Datum NAD83  
 Date Started 27-Jan-08  
 Date Completed 28-Jan-08  
 Drilled by Lafreniere Drilling  
 Logged by J.Kleinboeck

Interval (meters)		Formation	Sample Number	Sample Interval (m)		Assays				
From	To			From	To	Au(ppb)	Ag(ppm)	Cu(ppm)	Ni(ppm)	Zn(ppm)
0.0	24.0	OB - Overburden, Casing driven to 25.0m, left in hole.	263610	Standard	CDN-SE-2	234	169.76	448	34	13569
			263611	25.0	26.0	5	1.08	91	35	427
24.0	102.0	<b>VF (TUF) -Felsic Tuff</b>	263612	26.0	27.0	7	<1	28	24	79
		grey and green fine grained well bedded felsic tuff with lesser amounts of of interbedded mafic tuffs	263613	27.0	28.0	5	<1	39	33	69
		and massive flows. Local minor mafic and feldspar porphyritic dykes throughout	263614	28.0	29.0	6	<1	33	28	87
		bedding well developed @ 45-65 deg TCA, local beds folded and truncated	263615	29.0	30.0	<5	<1	25	24	68
		heavily fractured/broken core from 25.0-26.0m, 26.8-27.3m, 28.3-29.0m, 29.8-30.3m, 30.7-31.0m	263616	30.0	31.0	<5	<1	79	36	465
		33.20-33.45, 36.0-39.0m - dark green to black very fine grained mafic dykes at 80 and 70 deg TCA.	263617	31.0	32.0	5	<1	57	17	212
		40.65-40.67m - 2cm feldspar porphyry dyke @ 65 deg TCA	263618	32.0	33.0	7	<1	132	48	363
		weak to moderate quartz+carbonate veinlets oriented oblique to bedding	263619	33.0	34.0	<5	1.15	159	39	322
		40.7-41.7m - amygdoloidal mafic flow crosscut by lesser sections of feldspar porphyry	263620	Blank		9	<1	3	<1	3
		25.0-30.9m - trace to 0.5% diss po, fracture-filled py, and minor remobilized cp in quartz-filled	263621	34.0	35.0	<5	1.19	154	89	900
		fracture @ 25.4m	263622	35.0	36.0	13	1.11	199	61	336
		30.9-35.0m - 1% diss, banded, and net-textured po in bands up 8cm in width	263623	36.0	37.0	11	<1	62	115	92
		35.0-45.4m - trace to 0.5% diss + wispy po+py, trace py fracture-filling	263624	37.0	38.0	20	<1	71	145	112
		45.4-48.2m - 1% wispy + diss po+py	263625	38.0	39.0	7	<1	60	122	103
		43.5-43.7m - 20cm quartz vein @ 65 deg TCA	263626	39.0	40.0	8	<1	103	49	438
		48.2-59.0m - trace diss + wispy po+py, trace py fracture-filling	263627	40.0	41.0	8	<1	64	55	213
		59.0-71.0m - 0.5% diss + wispy po, trace py fracture-filling	263628	41.0	42.0	12	1.04	70	45	353
		62.60-62.65m - stong pervasive band of garnets up to 4mm in diameter.	263629	42.0	43.0	8	1.27	139	64	578
		71.0-102.0m - trace diss + wispy po+py, trace py fracture-filling	263630	Standard	CDN-SE-2	180	164.5	460	39	12957
		79.9-80.4m - very fine grained dyke (lamprophyre?) @ 70 deg TCA	263631	43.0	44.0	8	1.68	32	107	363
		96.0-96.4m - broken core, local chloritic gouge	263632	44.0	45.0	7	1.66	138	52	1161
			263633	45.0	46.0	7	2.44	239	93	1112
		EOH @ 102.0m	263634	46.0	47.0	7	1.08	69	36	435

Property Enid-Massey Property

Interval (meters)		Formation	Sample Number	Sample Interval (m)		Assays				
From	To			From	To	Au(ppb)	Ag(ppm)	Cu(ppm)	Ni(ppm)	Zn(ppm)
			263635	47.0	48.0	11	1.21	89	33	370
			263636	48.0	49.0	7	1.16	130	37	246
			263637	49.0	50.0	8	<1	43	26	306
			263638	50.0	51.0	8	<1	46	22	159
			263639	51.0	52.0	6	<1	47	17	101
			263640	Blank		<5	<1	4	2	6
			263641	52.0	53.0	6	<1	35	44	452
			263642	53.0	54.0	8	1.58	120	64	354
			263643	54.0	55.0	7	1.03	84	100	132
			263644	55.0	56.0	7	<1	107	103	450
			263645	56.0	57.0	6	1.2	127	72	296
			263646	57.0	58.0	9	1.18	126	46	947
			263647	58.0	59.0	<5	<1	55	28	312
			263648	59.0	60.0	5	<1	33	45	96
			263649	60.0	61.0	<5	1.19	67	84	102
			263650	Standard CDN-SE-2		230	2.64	459	37	4916
			263651	61.0	62.0	<5	1.05	93	109	51
			263652	62.0	63.0	<5	<1	102	88	52
			263653	63.0	64.0	<5	<1	100	97	43
			263654	64.0	65.0	<5	<1	70	72	38
			263655	65.0	66.0	<5	<1	54	51	31
			263656	66.0	67.0	<5	<1	67	73	40
			263657	67.0	68.0	<5	<1	67	67	38
			263658	68.0	69.0	7	1.38	125	60	230
			263659	69.0	70.0	9	1	104	50	1187
			263660	Blank		<5	<1	3	<1	2
			263661	70.0	71.0	28	1.71	265	84	144
			263662	71.0	72.0	<5	2.27	63	53	158
			263663	72.0	73.0	14	1.66	65	44	370







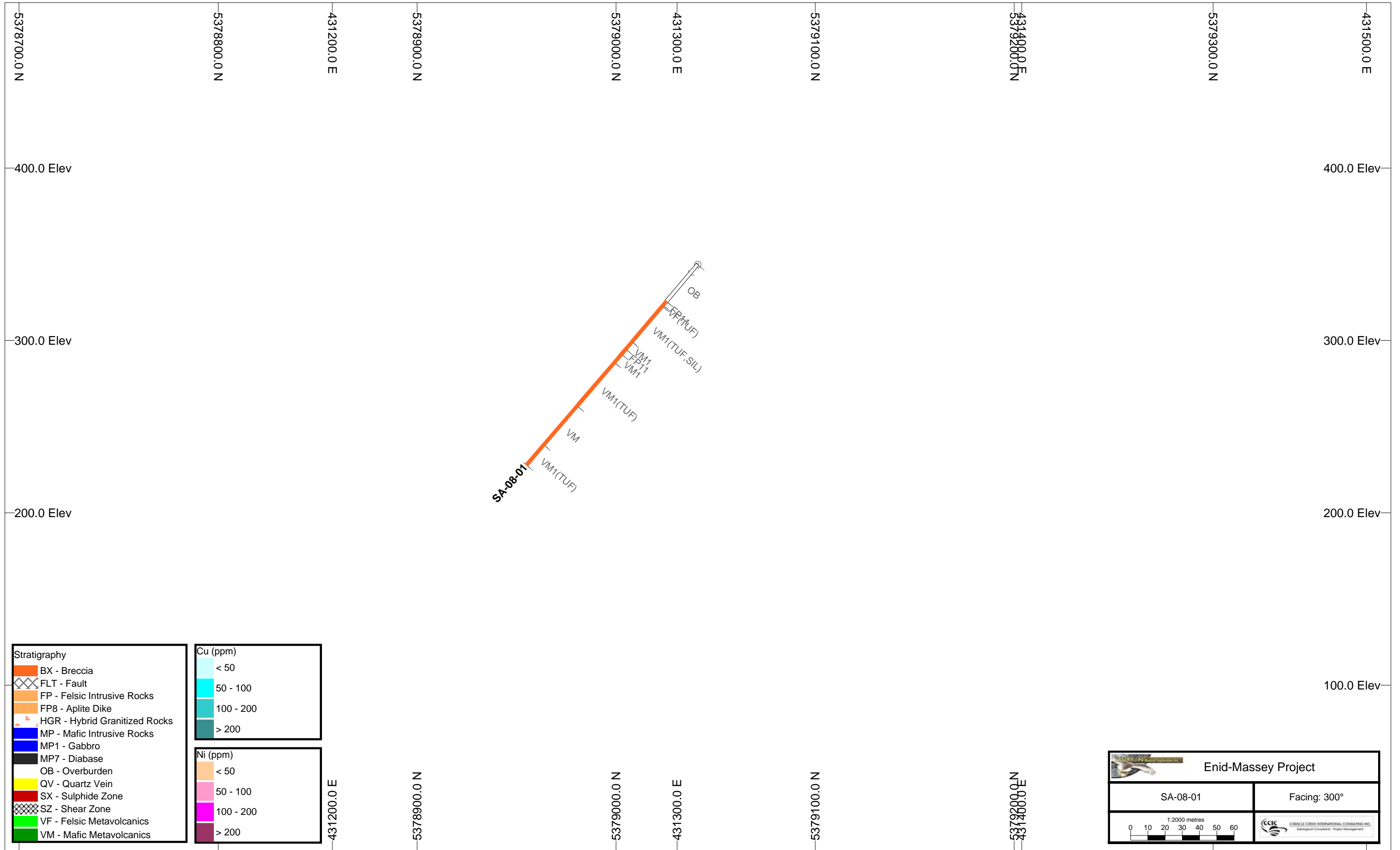






## **Appendix III**

### **Drill Sections**



**Stratigraphy**

- BX - Breccia
- FLT - Fault
- FP - Felsic Intrusive Rocks
- FP8 - Aplite Dike
- HGR - Hybrid Granitized Rocks
- MP - Mafic Intrusive Rocks
- MP1 - Gabbro
- MP7 - Diabase
- OB - Overburden
- QV - Quartz Vein
- SX - Sulphide Zone
- SZ - Shear Zone
- VF - Felsic Metavolcanics
- VM - Mafic Metavolcanics

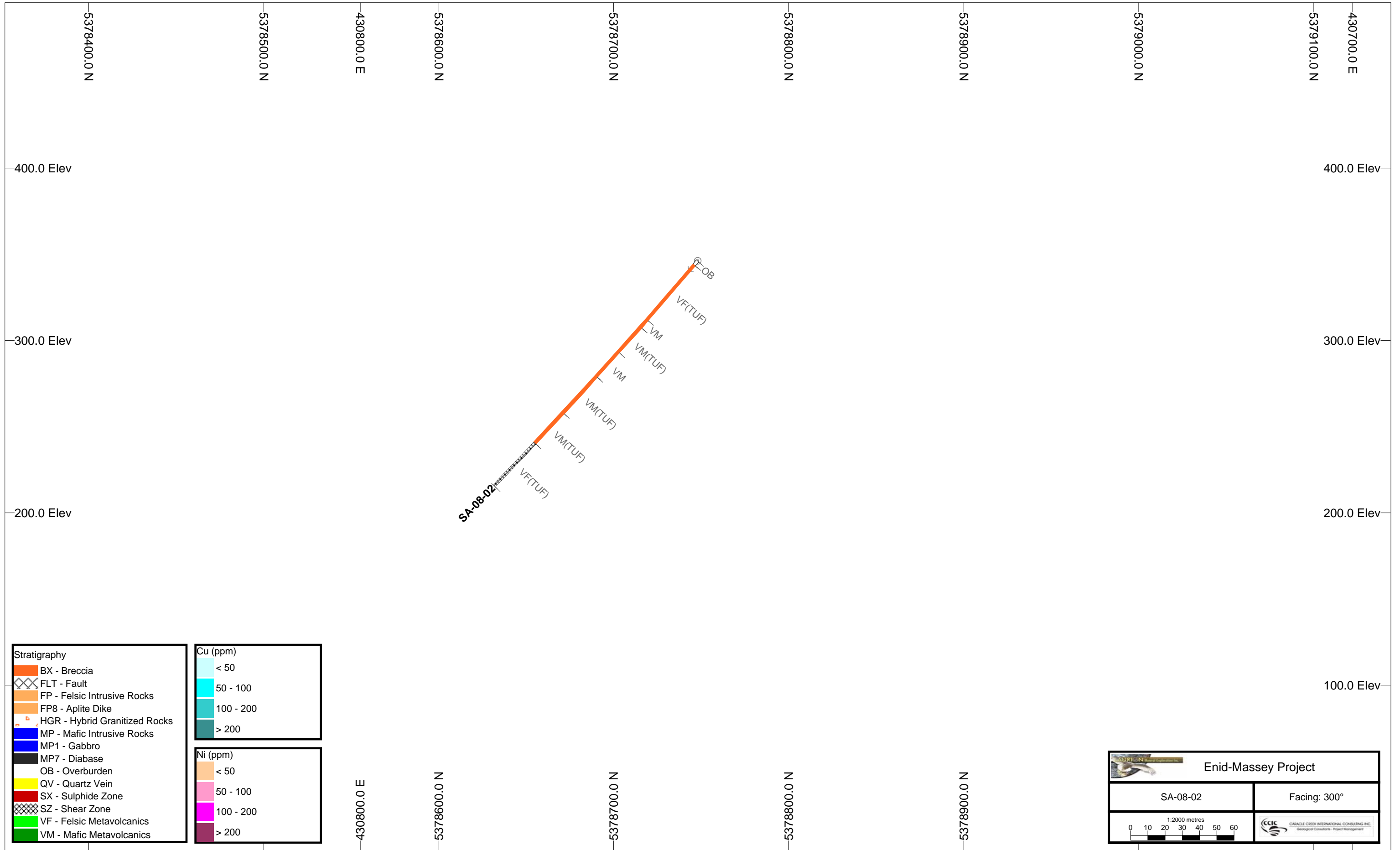
**Cu (ppm)**

- < 50
- 50 - 100
- 100 - 200
- > 200

**Ni (ppm)**

- < 50
- 50 - 100
- 100 - 200
- > 200

<b>Enid-Massey Project</b>	
SA-08-01	Facing: 300°
1:2000 metres 	
<small>CABACLE CREEK INTERNATIONAL CONSULTING INC. Geological Consultants - Project Management</small>	



**Stratigraphy**

	BX - Breccia
	FLT - Fault
	FP - Felsic Intrusive Rocks
	FP8 - Aplite Dike
	HGR - Hybrid Granitized Rocks
	MP - Mafic Intrusive Rocks
	MP1 - Gabbro
	MP7 - Diabase
	OB - Overburden
	QV - Quartz Vein
	SX - Sulphide Zone
	SZ - Shear Zone
	VF - Felsic Metavolcanics
	VM - Mafic Metavolcanics

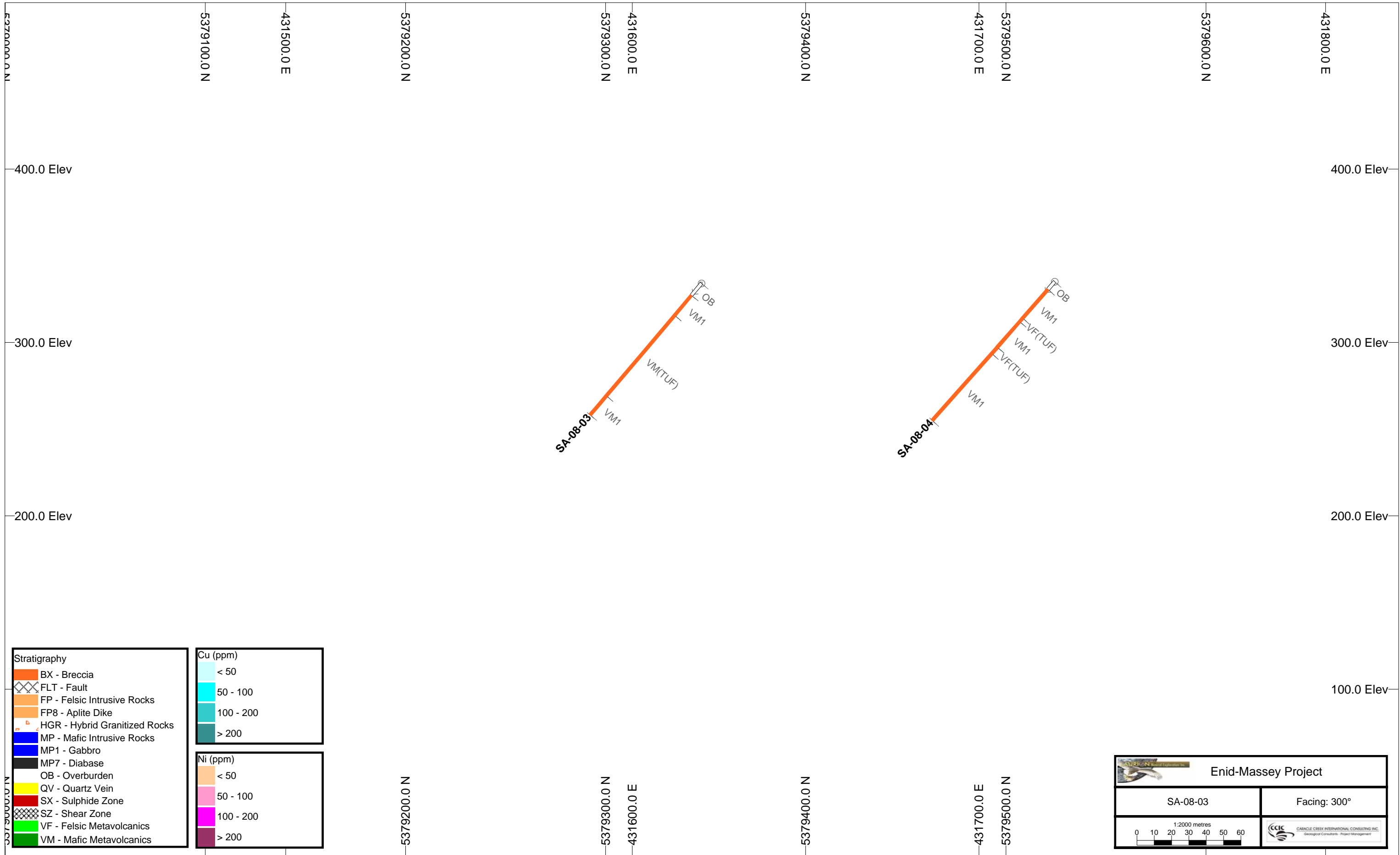
**Cu (ppm)**

	< 50
	50 - 100
	100 - 200
	> 200

**Ni (ppm)**

	< 50
	50 - 100
	100 - 200
	> 200

Enid-Massey Project	
SA-08-02	Facing: 300°
1:2000 metres 0 10 20 30 40 50 60	
CABACLE CREEK INTERNATIONAL CONSULTING INC. Geological Consultants - Project Management	



**Stratigraphy**

	BX - Breccia
	FLT - Fault
	FP - Felsic Intrusive Rocks
	FP8 - Aplite Dike
	HGR - Hybrid Granitized Rocks
	MP - Mafic Intrusive Rocks
	MP1 - Gabbro
	MP7 - Diabase
	OB - Overburden
	QV - Quartz Vein
	SX - Sulphide Zone
	SZ - Shear Zone
	VF - Felsic Metavolcanics
	VM - Mafic Metavolcanics

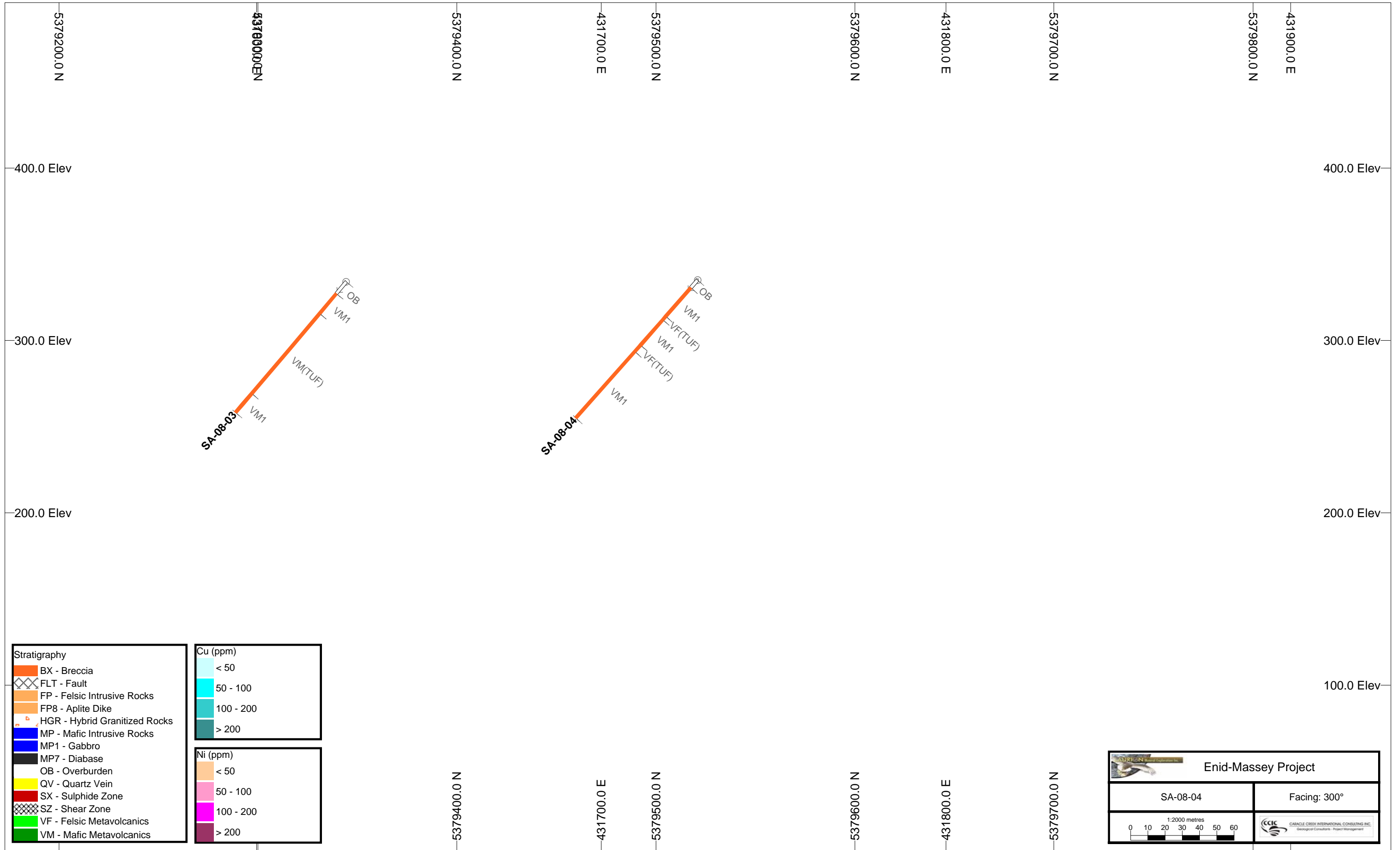
**Cu (ppm)**

	< 50
	50 - 100
	100 - 200
	> 200

**Ni (ppm)**

	< 50
	50 - 100
	100 - 200
	> 200

<b>Enid-Massey Project</b>	
SA-08-03	Facing: 300°
1:2000 metres 0 10 20 30 40 50 60	
<b>CCIC</b> CABACLE CREEK INTERNATIONAL CONSULTING INC. Geological Consultants - Project Management	



**Stratigraphy**

	BX - Breccia
	FLT - Fault
	FP - Felsic Intrusive Rocks
	FP8 - Aplite Dike
	HGR - Hybrid Granitized Rocks
	MP - Mafic Intrusive Rocks
	MP1 - Gabbro
	MP7 - Diabase
	OB - Overburden
	QV - Quartz Vein
	SX - Sulphide Zone
	SZ - Shear Zone
	VF - Felsic Metavolcanics
	VM - Mafic Metavolcanics

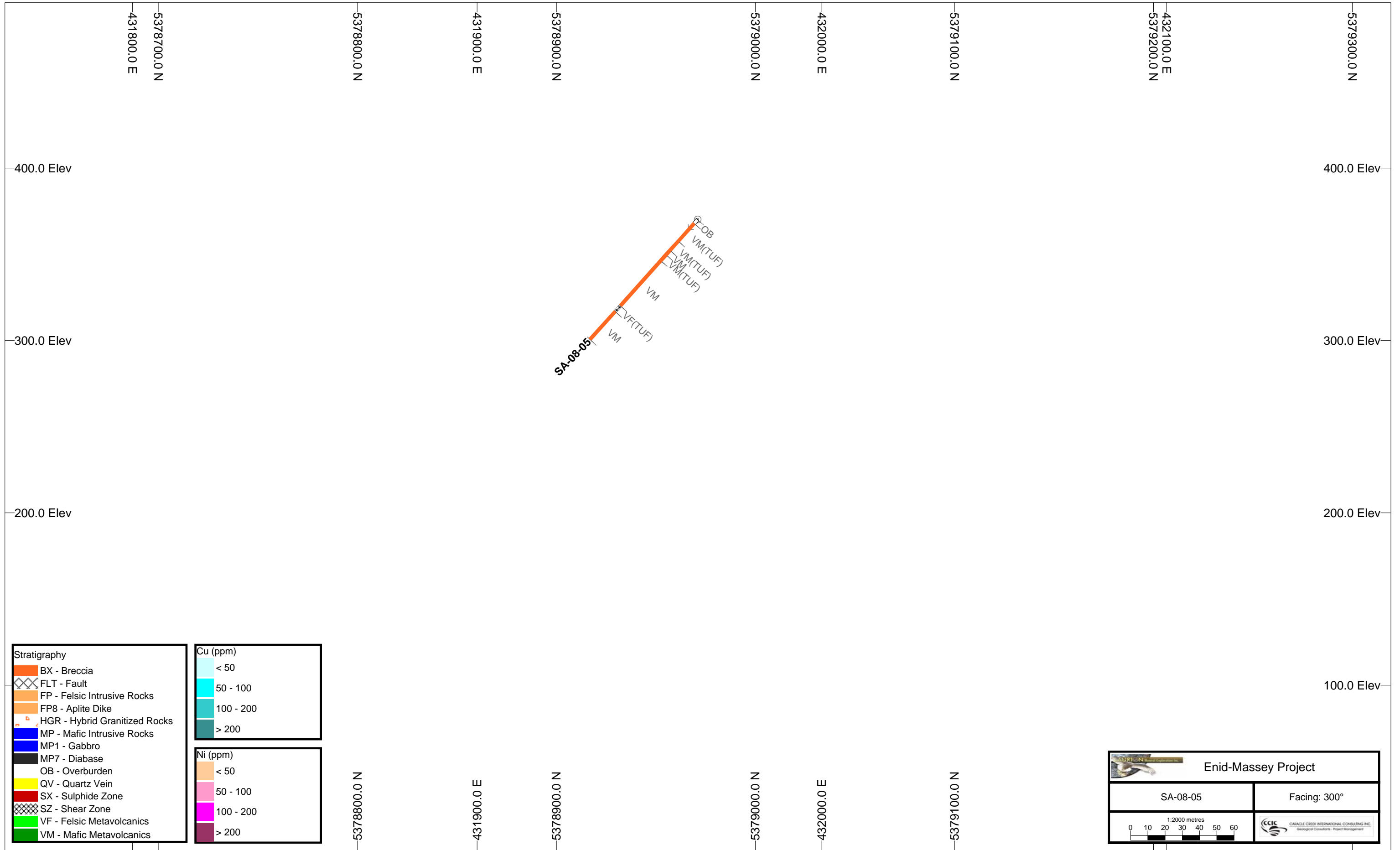
**Cu (ppm)**

	< 50
	50 - 100
	100 - 200
	> 200

**Ni (ppm)**

	< 50
	50 - 100
	100 - 200
	> 200

		<b>Enid-Massey Project</b>	
SA-08-04		Facing: 300°	
1:2000 metres			
		CIBC CREEK INTERNATIONAL CONSULTING INC. Geological Consultants - Project Management	



**Stratigraphy**

	BX - Breccia
	FLT - Fault
	FP - Felsic Intrusive Rocks
	FP8 - Aplite Dike
	HGR - Hybrid Granitized Rocks
	MP - Mafic Intrusive Rocks
	MP1 - Gabbro
	MP7 - Diabase
	OB - Overburden
	QV - Quartz Vein
	SX - Sulphide Zone
	SZ - Shear Zone
	VF - Felsic Metavolcanics
	VM - Mafic Metavolcanics

**Cu (ppm)**


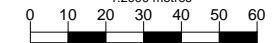

	< 50
	50 - 100
	100 - 200
	> 200

**Ni (ppm)**

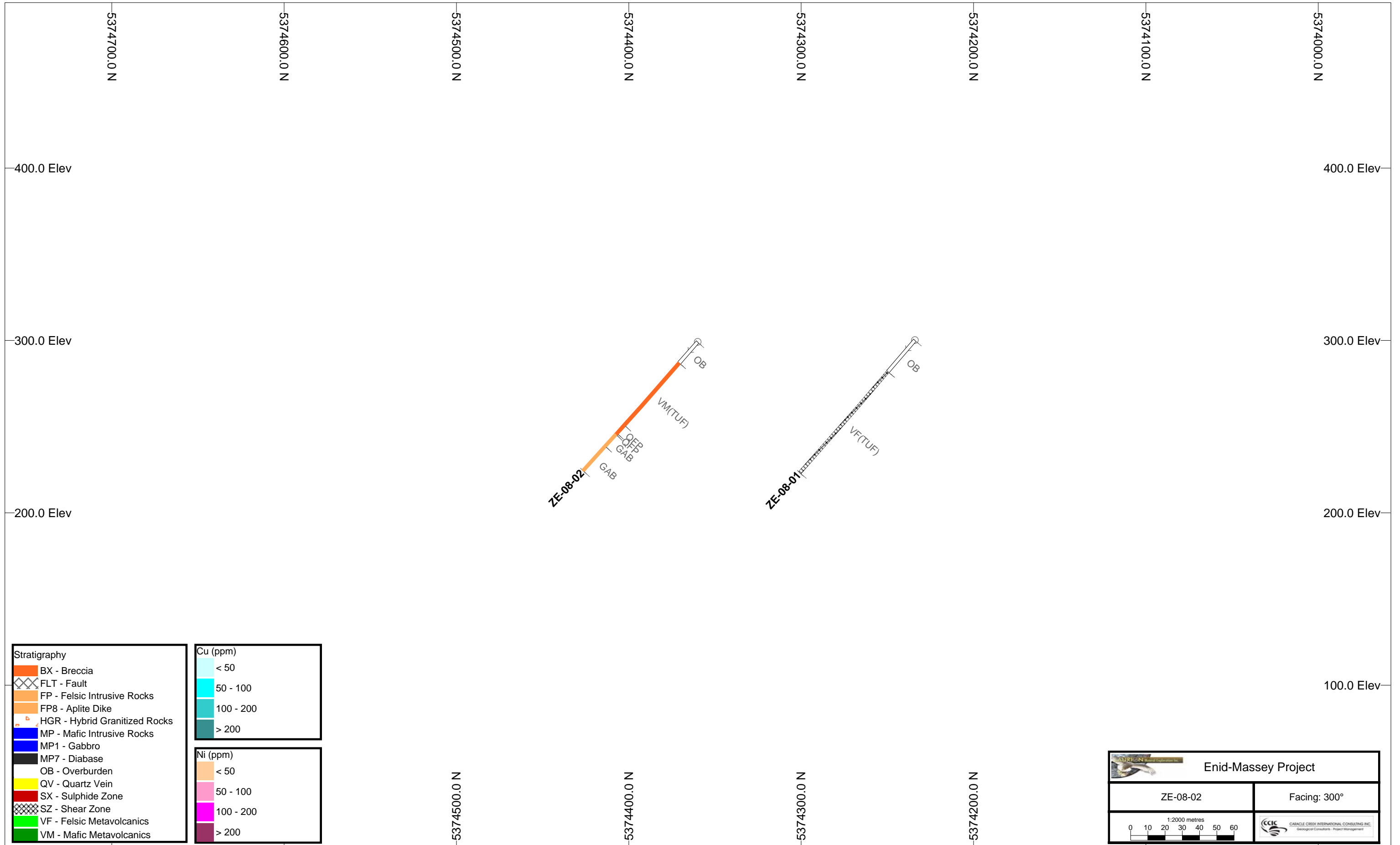
	< 50
	50 - 100
	100 - 200
	> 200

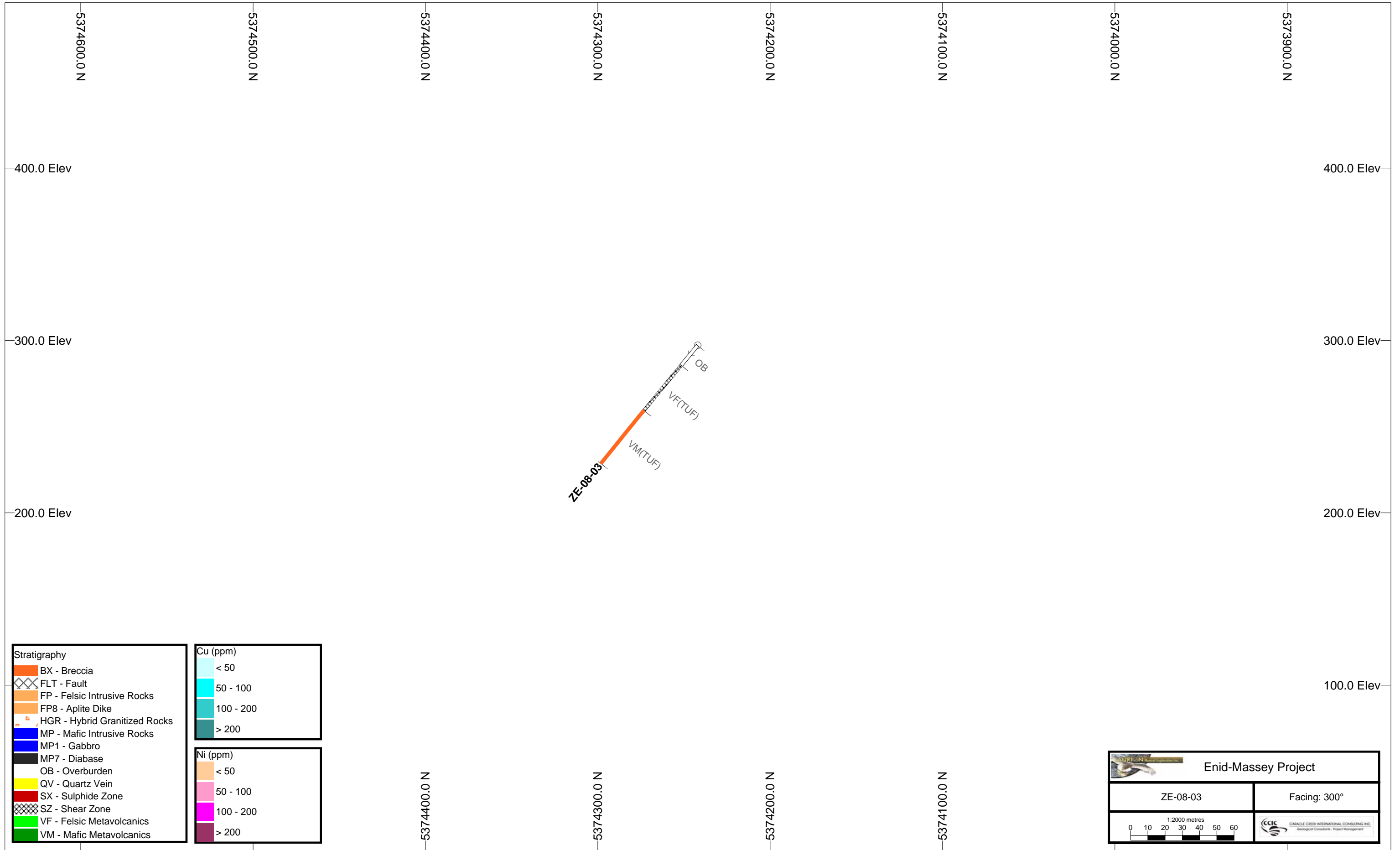
		<b>Enid-Massey Project</b>	
SA-08-05		Facing: 300°	
0 10 20 30 40 50 60		1:2000 metres	
		CIBC CIBACLE CREEK INTERNATIONAL CONSULTING INC. Geological Consultants Project Management	



 <b>Enid-Massey Project</b>	
ZE-08-01	Facing: 300°
1:2000 metres 	
 CABACLE CREEK INTERNATIONAL CONSULTING INC. Geological Consultants - Project Management	







**Stratigraphy**

	BX - Breccia
	FLT - Fault
	FP - Felsic Intrusive Rocks
	FP8 - Aplite Dike
	HGR - Hybrid Granitized Rocks
	MP - Mafic Intrusive Rocks
	MP1 - Gabbro
	MP7 - Diabase
	OB - Overburden
	QV - Quartz Vein
	SX - Sulphide Zone
	SZ - Shear Zone
	VF - Felsic Metavolcanics
	VM - Mafic Metavolcanics

**Cu (ppm)**

	< 50
	50 - 100
	100 - 200
	> 200

**Ni (ppm)**

	< 50
	50 - 100
	100 - 200
	> 200

<b>Enid-Massey Project</b>	
ZE-08-03	Facing: 300°
1:2000 metres 0 10 20 30 40 50 60	
<b>CCIC</b> CABACLE CREEK INTERNATIONAL CONSULTING INC. Geological Consultants - Project Management	



## **Appendix IV**

### **Assay Certificates**

**Certificate of Analysis**

Monday, March 10, 2008

 Caracle Creek International  
 Suite 2, 17 Froid Road  
 Sudbury, ON, CA  
 P3C4Y9  
 Ph#: (705) 671-1801  
 Fax#: (416) 599-4959  
 Email#: platadium@rogers.com

 Date Received: Feb 12, 2008  
 Date Completed: Feb 27, 2008

 Job #: 200810060  
 Reference: CCIC-Laurion--LME-EM  
 Sample #: 171 Core

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
2057	263501	5				1.27		291		198		75
2058	263502	33				1.37		260		312		83
2059	263503	9				<1		239		194		41
2060	263504	12				1.01		180		76		45
2061	263505	15				1.30		545		507		40
2062	263506	5				1.05		237		345		86
2063	263507	9				<1		199		391		61
2064	263508	7				<1		166		181		46
2065	263509	17				1.25		621		603		47
2066	263510	146				304.30		405		35	7971	10964
2067	263511	13				<1		245		245		47
2068	Dup 263511	9				<1		252		263		46
2069	263512	5				<1		88		172		47
2070	263513	7				<1		188		351		55
2071	263514	7				<1		135		92		108
2072	263515	13				1.41		357		587		65
2073	263516	179				1.03		66		298		76
2074	263517	14				1.00		91		280		64
2075	263518	10				1.20		325		513		64
2076	263519	16				1.29		581		474		48
2077	263520	6				<1		5		4		2
2078	263521	9				<1		148		207		21
2079	Dup 263521	10				<1		148		212		20
2080	263522	9				1.02		98		306		53

**Certificate of Analysis**

Monday, March 10, 2008

 Caracle Creek International  
 Suite 2, 17 Froid Road  
 Sudbury, ON, CA  
 P3C4Y9  
 Ph#: (705) 671-1801  
 Fax#: (416) 599-4959  
 Email#: platadium@rogers.com

 Date Received: Feb 12, 2008  
 Date Completed: Feb 27, 2008

 Job #: 200810060  
 Reference: CCIC-Laurion--LME-EM  
 Sample #: 171 Core

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
2081	263523	13				1.39		489		339		42
2082	263524	18				2.11		929		496		39
2083	263525	15				1.56		285		190		44
2084	263526	11				<1		155		97		43
2085	263527	13				1.08		422		362		40
2086	263528	11				1.07		379		328		41
2087	263529	14				1.25		670		768		34
2088	263530	305				166.51		455		40	4236	13071
2089	263531	15				1.16		326		313		35
2090	Dup 263531	15				<1		315		300		33
2091	263532	15				<1		297		539		46
2092	263533	143				3.17		691		205		274
2093	263534	249				2.32		525		111		188
2094	263535	29				1.62		243		42		84
2095	263536	22				1.36		133		45		51
2096	263537	217				2.38		373		83		410
2097	263538	46				1.30		133		48		56
2098	263539	26				1.23		65		38		76
2099	263540	5				<1		3		1		<1
2100	263541	487				9.33		336		209		53
2101	Dup 263541	663				9.52		341		204		53
2102	263542	68				2.76		198		42		147
2103	263543	134				4.09		283		53		219
2104	263544	15				1.27		113		28		69

**Certificate of Analysis**

Monday, March 10, 2008

 Caracle Creek International  
 Suite 2, 17 Froid Road  
 Sudbury, ON, CA  
 P3C4Y9  
 Ph#: (705) 671-1801  
 Fax#: (416) 599-4959  
 Email#: platadium@rogers.com

 Date Received: Feb 12, 2008  
 Date Completed: Feb 27, 2008

 Job #: 200810060  
 Reference: CCIC-Laurion--LME-EM  
 Sample #: 171 Core

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
2105	263545	14				2.73		301		58		124
2106	263546	11				1.14		108		31		183
2107	263547	8				<1		61		38		112
2108	263548	11				1.84		580		70		90
2109	263549	9				1.06		66		25		86
2110	263550	237				129.17		412		28	2077	12885
2111	263551	9				1.04		62		25		69
2112	Dup 263551	10				<1		63		26		66
2113	263552	9				1.14		85		40		79
2114	263553	11				1.47		97		49		316
2115	263554	13				2.11		477		86		71
2116	263555	12				1.88		106		64		66
2117	263556	9				1.31		53		39		36
2118	263557	9				1.30		93		45		32
2119	263558	9				1.35		71		26		210
2120	263559	11				1.43		96		27		232
2121	263560	9				<1		3		<1		<1
2122	263561	<5				1.24		60		26		101
2123	Rep 263561	9				1.29		61		24		103
2124	263562	7				1.67		147		35		134
2125	263563	7				1.86		95		29		109
2126	263564	9				1.30		92		43		56
2127	263565	9				<1		182		39		11
2128	263566	11				<1		90		29		35

**Certificate of Analysis**

Monday, March 10, 2008

 Caracle Creek International  
 Suite 2, 17 Froid Road  
 Sudbury, ON, CA  
 P3C4Y9  
 Ph#: (705) 671-1801  
 Fax#: (416) 599-4959  
 Email#: platadium@rogers.com

 Date Received: Feb 12, 2008  
 Date Completed: Feb 27, 2008

Job #: 200810060

Reference: CCIC-Laurion--LME-EM

Sample #: 171 Core

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
2129	263567	11				1.56		191		48		94
2130	263568	13				1.66		183		43		71
2131	263569	8				1.60		191		47		71
2132	263570	9				163.24		474		42	4042	12551
2133	263571	11				1.73		97		54		71
2134	Dup 263571	10				1.55		94		55		70
2135	263572	8				1.62		165		48		52
2136	263573	7				1.17		120		46		44
2137	263574	<5				1.46		152		60		58
2138	263575	6				1.26		149		40		51
2139	263576	40				1.73		151		60		72
2140	263577	6				1.31		77		93		72
2141	263578	9				1.24		311		60		62
2142	263579	<5				2.42		810		78		34
2143	Dup 263579	<5				<1		5		<1		<1
2144	263580	9				1.47		81		39		56
2145	263581	10				1.41		88		41		58
2146	263582	9				1.73		156		47		60
2147	263583	8				1.62		163		77		60
2148	263584	12				1.47		118		65		58
2149	263585	11				1.44		142		38		55
2150	263586	11				1.87		182		50		76
2151	263587	9				2.62		564		79		92
2152	263588	<5				1.83		107		70		86

**Certificate of Analysis**

Monday, March 10, 2008

 Caracle Creek International  
 Suite 2, 17 Froid Road  
 Sudbury, ON, CA  
 P3C4Y9  
 Ph#: (705) 671-1801  
 Fax#: (416) 599-4959  
 Email#: platadium@rogers.com

 Date Received: Feb 12, 2008  
 Date Completed: Feb 27, 2008

 Job #: 200810060  
 Reference: CCIC-Laurion--LME-EM  
 Sample #: 171 Core

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
2153	263589	8				1.55		113		90		103
2154	263590	232				175.92		439		32	4498	13921
2155	263591	28				1.70		83		37		81
2156	Dup 263591	6				1.58		83		38		82
2157	263592	14				1.71		80		40		62
2158	263593	10				1.27		107		41		68
2159	263594	8				1.00		51		39		78
2160	263595	8				1.00		115		41		56
2161	263596	8				1.16		167		41		106
2162	263597	6				1.00		134		44		60
2163	263598	6				1.23		103		37		95
2164	263599	5				1.30		164		43		310
2165	263600	<5				<1		3		1		3
2166	263601	6				1.14		115		43		66
2167	Dup 263601	5				<1		117		44		65
2168	263602	5				<1		67		29		44
2169	263603	5				1.04		119		40		51
2170	263604	<5				1.07		96		47		69
2171	263605	6				1.20		123		53		52
2172	263606	10				<1		11		11		50
2173	263607	<5				1.23		130		41		47
2174	263608	5				<1		86		38		40
2175	263609	5				<1		103		51		46
2176	263610	234				169.76		448		34	4240	13569



**Certificate of Analysis**

Monday, March 10, 2008

 Caracle Creek International  
 Suite 2, 17 Froid Road  
 Sudbury, ON, CA  
 P3C4Y9  
 Ph#: (705) 671-1801  
 Fax#: (416) 599-4959  
 Email#: platadium@rogers.com

 Date Received: Feb 12, 2008  
 Date Completed: Feb 27, 2008

 Job #: 200810060  
 Reference: CCIC-Laurion--LME-EM  
 Sample #: 171 Core

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
2177	263611	5				1.08		91		35		427
2178	263612	7				<1		28		24		79
2179	263613	5				<1		39		33		69
2180	263614	6				<1		33		28		87
2181	263615	<5				<1		25		24		68
2182	263616	<5				<1		79		36		465
2183	263617	5				<1		57		17		212
2184	263618	7				<1		132		48		363
2185	263619	<5				1.15		159		39		322
2186	263620	9				<1		3		<1		3
2187	263621	<5				1.19		154		89		900
2188	Dup 263621	13				1.15		152		89		906
2189	263622	13				1.11		199		61		336
2190	263623	11				<1		62		115		92
2191	263624	20				<1		71		145		112
2192	263625	7				<1		60		122		103
2193	263626	8				<1		103		49		438
2194	263627	8				<1		64		55		213
2195	263628	12				1.04		70		45		353
2196	263629	8				1.27		139		64		578
2197	263630	180				164.50		460		39	4027	12957
2198	263631	8				1.68		32		107		363
2199	Dup 263631	6				1.44		32		105		351
2200	263632	7				1.66		138		52		1161

**Certificate of Analysis**

Monday, March 10, 2008

 Caracle Creek International  
 Suite 2, 17 Froid Road  
 Sudbury, ON, CA  
 P3C4Y9  
 Ph#: (705) 671-1801  
 Fax#: (416) 599-4959  
 Email#: platadium@rogers.com

 Date Received: Feb 12, 2008  
 Date Completed: Feb 27, 2008

 Job #: 200810060  
 Reference: CCIC-Laurion--LME-EM  
 Sample #: 171 Core

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
2201	263633	7				2.44		239		93		1112
2202	263634	7				1.08		69		36		435
2203	263635	11				1.21		89		33		370
2204	263636	7				1.16		130		37		246
2205	263637	8				<1		43		26		306
2206	263638	8				<1		46		22		159
2207	263639	6				<1		47		17		101
2208	263640	<5				<1		4		2		6
2209	263641	6				<1		35		44		452
2210	Dup 263641	6				<1		34		43		456
2211	263642	8				1.58		120		64		354
2212	263643	7				1.03		84		100		132
2213	263644	7				<1		107		103		450
2214	263645	6				1.20		127		72		296
2215	263646	9				1.18		126		46		947
2216	263647	<5				<1		55		28		312
2217	263648	5				<1		33		45		96
2218	263649	<5				1.19		67		84		102
2219	263650	230				2.64		459		37	48	4916
2220	263651	<5				1.05		93		109		51
2221	Dup 263651	<5				1.28		96		106		49
2222	263652	<5				<1		102		88		52
2223	263653	<5				<1		100		97		43
2224	263654	<5				<1		70		72		38

**Certificate of Analysis**

Monday, March 10, 2008

 Caracle Creek International  
 Suite 2, 17 Froid Road  
 Sudbury, ON, CA  
 P3C4Y9  
 Ph#: (705) 671-1801  
 Fax#: (416) 599-4959  
 Email#: platadium@rogers.com

 Date Received: Feb 12, 2008  
 Date Completed: Feb 27, 2008

Job #: 200810060

Reference: CCIC-Laurion--LME-EM

Sample #: 171 Core

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
2225	263655	<5				<1		54		51		31
2226	263656	<5				<1		67		73		40
2227	263657	<5				<1		67		67		38
2228	263658	7				1.38		125		60		230
2229	263659	9				1.00		104		50		1187
2230	263660	<5				<1		3		<1		2
2231	263661	28				1.71		265		84		144
2232	Dup 263661	13				1.58		258		82		139
2233	263662	<5				2.27		63		53		158
2234	263663	14				1.66		65		44		370
2235	263664	6				<1		44		29		376
2236	263665	<5				1.25		133		84		293
2237	263666	<5				<1		34		29		60
2238	263667	8				<1		55		40		99
2239	263668	<5				<1		78		60		31
2240	263669	8				<1		233		158		40
2241	263670	214				1.88		443		32	128	8093
2242	263671	8				1.02		246		175		41
2243	Dup 263671	6				<1		249		173		41

**Certificate of Analysis**

Monday, March 10, 2008

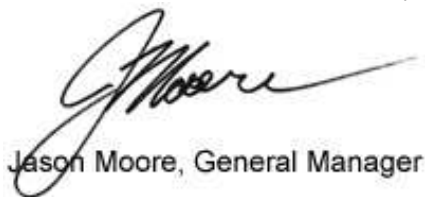
 Caracle Creek International  
 Suite 2, 17 Froid Road  
 Sudbury, ON, CA  
 P3C4Y9  
 Ph#: (705) 671-1801  
 Fax#: (416) 599-4959  
 Email#: platadium@rogers.com

 Date Received: Feb 12, 2008  
 Date Completed: Feb 27, 2008  
 Job #: 200810060  
 Reference: CCIC-Laurion--LME-EM  
 Sample #: 171 Core

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
-------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

PROCEDURE CODES: AL4AU3, AL4Ag, AL4Cu, AL4Ni, AL4Zn, AL4ICPAR

Certified By:


 Jason Moore, General Manager

 The results included on this report relate only to the items tested  
 The Certificate of Analysis should not be reproduced except in full, without the written approval of the laboratory

AL917-0032-03/10/2008 8:23 AM

## Certificate of Analysis

Wednesday, January 23, 2008

Caracle Creek International  
 Suite 2, 17 Frood Road  
 Sudbury, ON, CA  
 P3C4Y9  
 Ph#: (705) 671-1801  
 Fax#: (416) 599-4959  
 Email#: platadium@rogers.com

Date Received: Dec 19, 2007  
 Date Completed: Jan 23, 2008  
 Job #: 200710204  
 Reference: CCIC for LAurion EXP.  
 Sample #: 220 Core

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb
10281	59684	<5	<15	<10	
10282	59685	<5	<15	<10	
10283	59686	<5	<15	<10	
10284	59687	<5	<15	<10	
10285	59688	<5	17	<10	
10286	59689	<5	32	<10	
10287	59690	<5	<15	<10	
10288	Dup 59690	<5	<15	<10	
10289	59690A	<5	<15	<10	
10290	59691	103	26	<10	
10291	59692	10	<15	<10	
10292	59693	43	<15	<10	
10293	59694	6	<15	<10	
10294	59695	<5	<15	<10	
10295	59696	<5	<15	<10	
10296	59697	<5	<15	<10	
10297	59698	<5	<15	<10	
10298	59699	17	<15	<10	
10299	59700	10	28	<10	
10300	Dup 59700	10	<15	<10	
10301	59701	5	<15	11	
10302	59702	10	<15	<10	
10303	59703	<5	<15	<10	
10304	59704	24	<15	<10	

**Certificate of Analysis**

Wednesday, January 23, 2008

 Caracle Creek International  
 Suite 2, 17 Frood Road  
 Sudbury, ON, CA  
 P3C4Y9  
 Ph#: (705) 671-1801  
 Fax#: (416) 599-4959  
 Email#: platadium@rogers.com

 Date Received: Dec 19, 2007  
 Date Completed: Jan 23, 2008  
 Job #: 200710204  
 Reference: CCIC for LAurion EXP.  
 Sample #: 220 Core

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb
10305	59705	10	36	19	
10306	59706	7	<15	<10	
10307	59707	<5	<15	<10	
10308	59708	<5	<15	<10	
10309	59709	8	<15	<10	
10310	59710	11	32	20	
10311 Dup	59710	9	<15	<10	
10312	59711	8	<15	<10	
10313	59712	8	<15	<10	
10314	59713	8	27	11	
10315	59714	20	83	35	
10316	59715	11	<15	<10	
10317	59716	7	<15	<10	
10318	59717	10	15	<10	
10319	59718	7	15	<10	
10320	59719	8	<15	<10	
10321	59720	8	<15	<10	
10322 Dup	59720	8	<15	<10	
10323	59721	12	18	<10	
10324	59722	6	19	<10	
10325	59723	6	<15	<10	
10326	59724	9	<15	<10	
10327	59725	6	<15	<10	
10328	59726	24	<15	<10	

**Certificate of Analysis**

Wednesday, January 23, 2008

 Caracle Creek International  
 Suite 2, 17 Frood Road  
 Sudbury, ON, CA  
 P3C4Y9  
 Ph#: (705) 671-1801  
 Fax#: (416) 599-4959  
 Email#: platadium@rogers.com

 Date Received: Dec 19, 2007  
 Date Completed: Jan 23, 2008  
 Job #: 200710204  
 Reference: CCIC for LAurion EXP.  
 Sample #: 220 Core

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb
10329	59727	<5	16	<10	
10330	59728	6	18	<10	
10331	59729	10	18	<10	
10332	59730	5	<15	<10	
10333	Rep 59730	6	<15	<10	
10334	59731	9	19	<10	
10335	59732	9	<15	<10	
10336	59733	12	<15	<10	
10337	59734	5	<15	<10	
10338	59735	<5	<15	22	
10339	59736	7	<15	<10	
10340	59737	11	16	<10	
10341	59738	9	<15	<10	
10342	59739	6	<15	<10	
10343	59740	8	16	<10	
10344	Dup 59740	8	22	11	
10345	59741	8	<15	<10	
10346	59742	<5	<15	<10	
10347	59743	8	<15	<10	
10348	59744	11	17	14	
10349	59745	13	<15	<10	
10350	59746	9	<15	<10	
10351	59747	10	<15	<10	
10352	59748	5	<15	<10	

**Certificate of Analysis**

Wednesday, January 23, 2008

 Caracle Creek International  
 Suite 2, 17 Frood Road  
 Sudbury, ON, CA  
 P3C4Y9  
 Ph#: (705) 671-1801  
 Fax#: (416) 599-4959  
 Email#: platadium@rogers.com

 Date Received: Dec 19, 2007  
 Date Completed: Jan 23, 2008  
 Job #: 200710204  
 Reference: CCIC for LAurion EXP.  
 Sample #: 220 Core

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb
10353	59749	5	<15	<10	
10354	59750	46	39	68	
10355 Dup	59750	32	<15	<10	
10356	59751	197	17	11	
10357	59752	14	<15	<10	
10358	59753	32	<15	<10	
10359	59754	18	19	<10	
10360	59755	108	<15	<10	
10361	59756	14	21	<10	
10362	59757	15	<15	<10	
10363	59758	23	23	<10	
10364	59759	8	22	<10	
10365	59760	7	<15	<10	
10366 Dup	59760	8	<15	<10	
10367	59761	8	<15	<10	
10368	59762	6	17	<10	
10369	59763	7	<15	<10	
10370	59764	10	19	<10	
10371	59765	15	65	22	
10372	59766	9	18	<10	
10373	59767	<5	<15	<10	
10374	59768	5	<15	<10	
10375	59769	5	<15	<10	
10376	59770	<5	<15	<10	



**Certificate of Analysis**

Wednesday, January 23, 2008

 Caracle Creek International  
 Suite 2, 17 Froot Road  
 Sudbury, ON, CA  
 P3C4Y9  
 Ph#: (705) 671-1801  
 Fax#: (416) 599-4959  
 Email#: platadium@rogers.com

 Date Received: Dec 19, 2007  
 Date Completed: Jan 23, 2008  
 Job #: 200710204  
 Reference: CCIC for LAurion EXP.  
 Sample #: 220 Core

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb
10377 Dup	59770	<5	<15	<10	
10378	59771	65	<15	<10	

PROCEDURE CODES: AL4APP, AL4Cu, AL4Ni, AL4Pb, AL4Zn, AL4ICPAR



Derek Demianiuk H.Bsc., Laboratory Manager

 Certified By: The results included on this report relate only to the items tested  
 The Certificate of Analysis should not be reproduced except in full, without the written approval of the laboratory

AL907-0032-01/23/2008 3:30 PM



## **Maps**

### **Back Pocket**

431000

432000

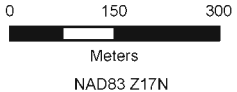


**Enid Massey Project  
Santrap Drilling**



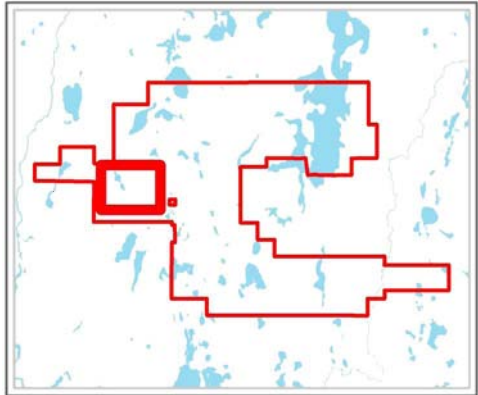
**Legend**

- 2008 Drill Holes
- Traces
- Roads
- Enid Massey Grids
- Enid Massey Property



5379000

5379000



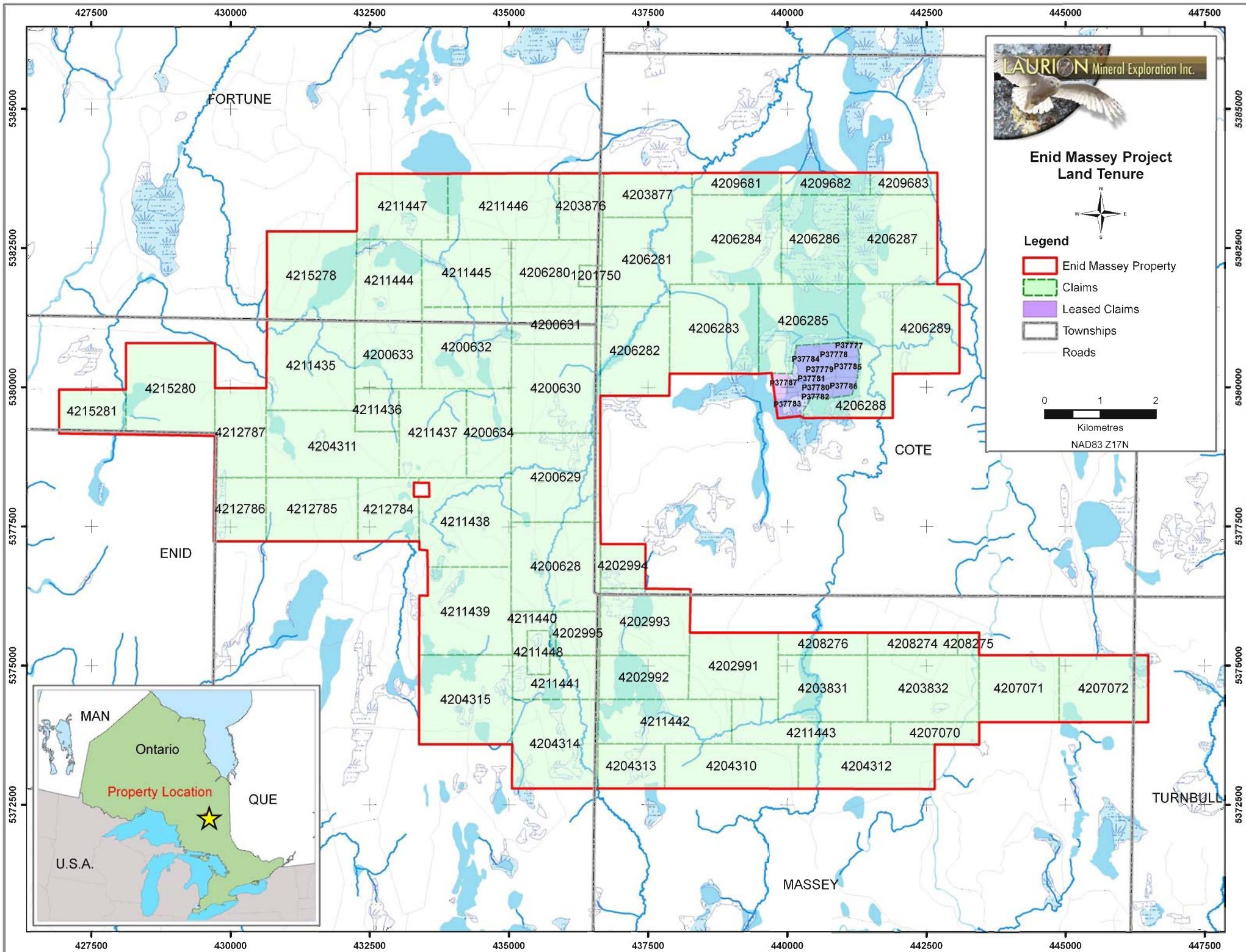
5378000

5378000

431000


432000





442000

443000



**Laurion Mineral Exploration Inc.**

**Enid Massey Project  
Zed'Or Drilling**



**Legend**

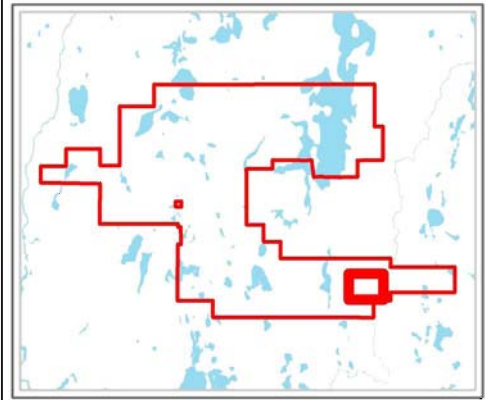
- 2008 Drill Holes
- Traces
- Roads
- Enid Massey Grids
- Enid Massey Property

0 90 180  
Meters  
NAD83 Z17N



5374000

5374000



442000

443000







# Enid Massey Project

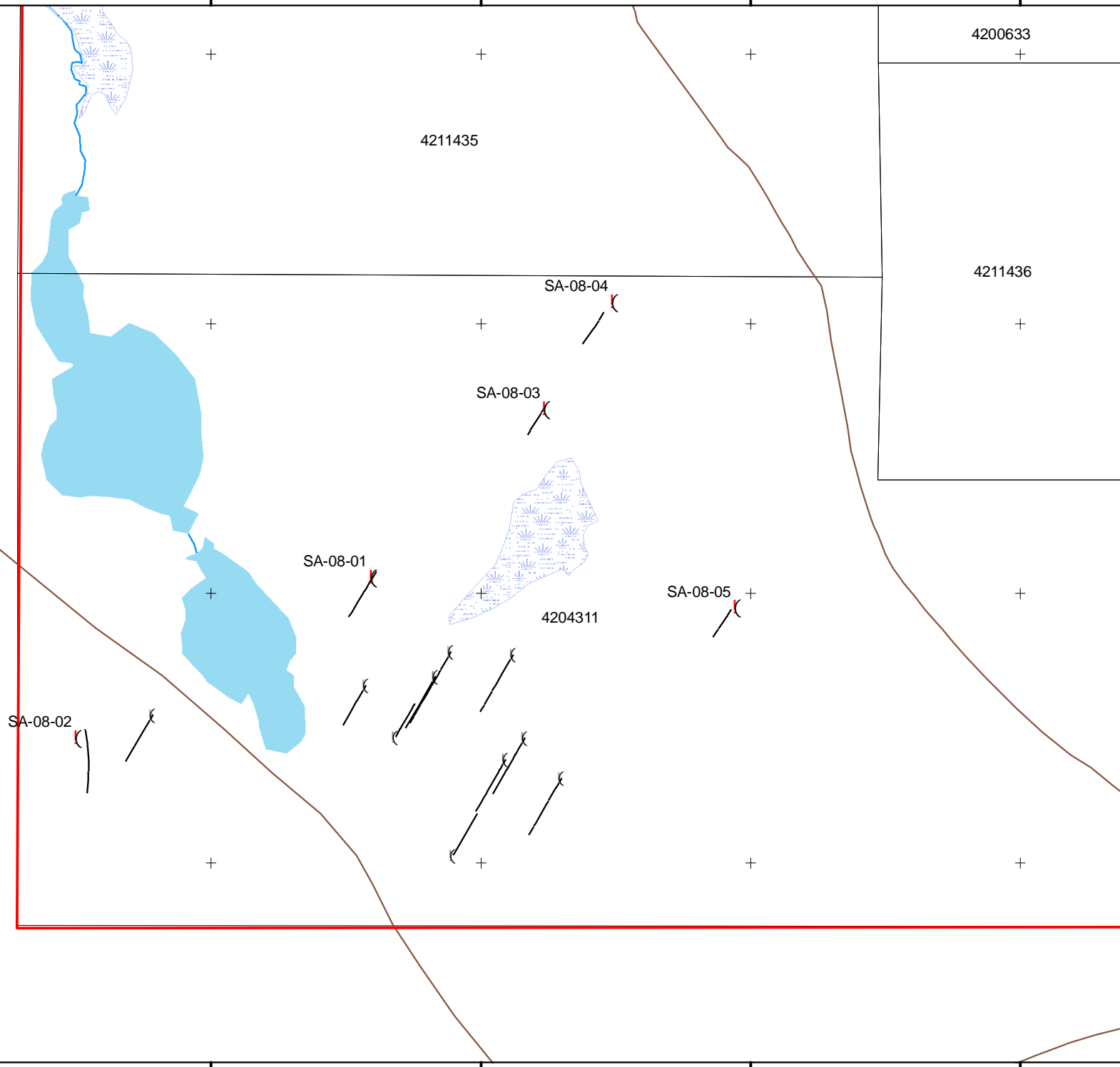
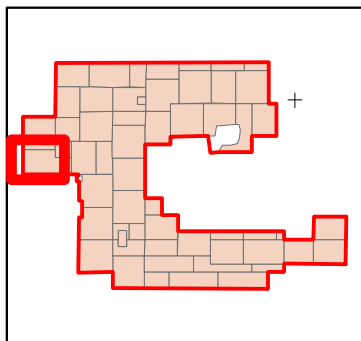
## Map 2: Location of Santrap Diamond Drill Holes

### Legend

- Property Boundary
- Claims
- Roads
- 2008 DDH's
- 2006-07 DDH's
- trace



NAD83 Z17N

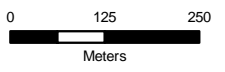




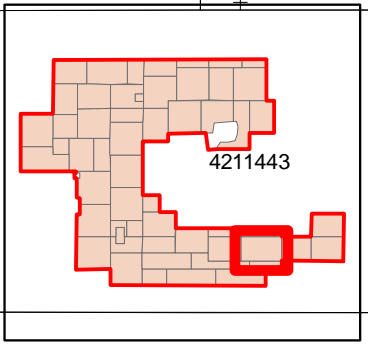
# Enid Massey Project Map 3: Location of Zed'Or Diamond Drill Holes



- Legend**
- Property Boundary
  - Roads
  - traces
  - 2008 DDH's
  - Claims



NAD83 Z17N



4211443

4204312

4208274

4208275

4203832

4207071

4207070

ZE-08-02

ZE-08-01

ZE-08-03

441500

442000

442500

443000

443500

5375000

5375000

5374500

5374500

5374000

5374000

441500

442000

442500

443000

443500