We are committed to providing accessible customer service.
If you need accessible formats or communications supports, please contact us.

Nous tenons à améliorer l’accessibilité des services à la clientèle.
Si vous avez besoin de formats accessibles ou d’aide à la communication, veuillez nous contacter.

Ontario

OSISKO MINING

Osisko Mining Inc.

<u>Assessment Report</u>

Unpatented Mining Claim

4277210

Guibord Township

Larder Lake Mining Division

Mobile Metal Ions Process Geochemical Survey

June 20, 2017

Brian Madill
Dave Eves

TABLE OF CONTENTS

FIGURES

APPENDIX

Location and Access:

Guibord unpatented mining claim 4277210 is situated in the east central portion of Guibord Township in the District of Cochrane, Larder Lake Mining Division, Northeastern Ontario. The property is approximately 25km east of Matheson. Access can be gained by travelling east along Hwy. 101 a distance of 24.6 km. From this point access is gained by travelling south along a series of logging roads and ATV trails to arrive at the number 1 post. The number 1 post is located at UTM coordinates 563252.85, 5376469.64, Nad 83, Zone 17N. Elevation varies from 310m to 320m above sea level.

Property Description:

Typical climactic conditions for the central Canadian Shield are common, with short, mild, summers and long, cold winters. The temperature averages from -17°C. in January, to 18°C in July with sporadic extremes ranging from -40°C to 35°C. The area has a mean annual precipitation accumulation of anywhere from 812mm to 876mm.

The property is covered in typical boreal forest with most of the species being pine, spruce, poplar, and alders. A significant amount of ground within the Guibord Claim is swamp and underlain by Pleisocene varved clays, sand, gravel and boulders.

Previous Work:

The first definitive geological treatise on Guibord Township was that performed by V.K. Prest of the Ontario Department of Mines in 1946, Prest (1953).

In the 1940's the area was covered by the Ontario Department of Mines/Geological Survey of Canada l inch to l mile aeromagnetic survey, ODM/GSC (1970). This was followed by an more detailed survey by the Ontario Department of Mines and Northern Affairs when they contracted Barringer Research to fly a 6 township area including Guibord Township with a system comprised of total intensity magnetic, E-Phase apparent resistivity, Radiophase electromagnetic and total count gamma ray, ODMNA (1971). The latest

Introduction:

Between June 14th and June 15th of 2017, Osisko Mining Inc. conducted a geochemical soil survey program on the 100% owned Guibord Claim 4277210. Guibord Claim 4277210 is a two unit unpatented mining claim. The claim is located on the N1/4 of the N1/2 of Lot 6, Con 5 (See Figure 1) and is described as follows:

Claim No.	No. of Units	No. of Hectares
4277210	2	32.0

The purpose of the survey was to uncover any possible anomalous precious or base metal geochemical signatures that may be associated with ore deposits. Sixty four samples were collected and sent to SGS Mineral Services in Burnaby, BC, for geochemical analysis.

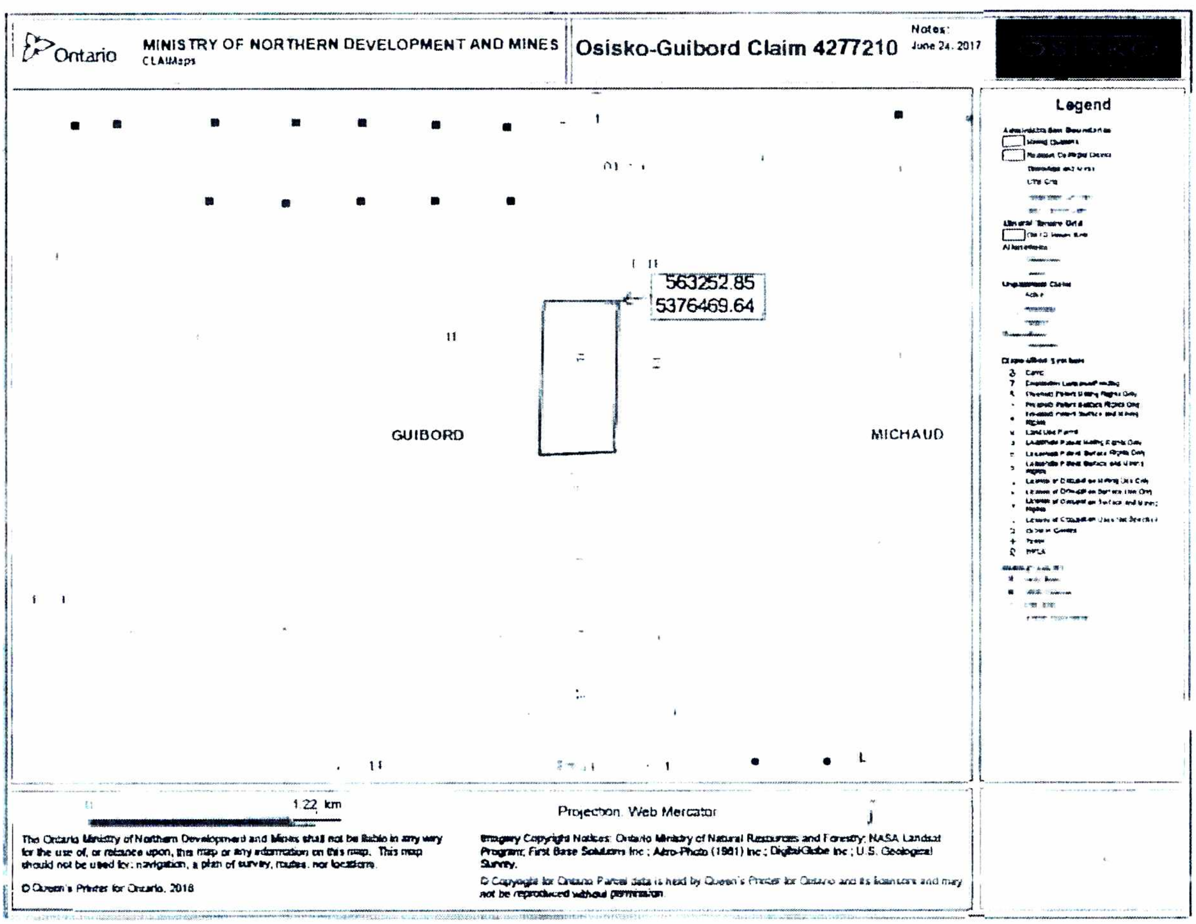


Figure 1: Claim Map (Ater MNDM ClaimMaps)

Previous work in the form of assessment work on claim 4277210 has not been extensive and has largely been part of other programs that have concentrated on claims on strike east or west of the subject claim.

Regional Geology:

Claim 4277210 is located within the Abitibi Subprovince of the Superior Province of the Canadian Shield. The volcanic, sedimentary and intrusive rocks in the Subprovince are all Archean age except the latest diabase dikes.

Keewatin-type volcanic flows are the oldest rocks in the region. Their composition varies from basaltic to rhyolitic. They are intercalated with pyroclastic and sedimentary units. Timiskaming type sediments are found locally within the volcanic pile. Rocks of the region are metamorphosed to greenschist facies and are affected by a steeply dipping, east-west striking foliation. Concordant and discordant intrusive bodies occur throughout the region. They form bodies of various sizes and shapes, with compositions that vary from ultrabasic to granitic. (See Figure 2)

The most prominent structural features in the vicinity of Guibord Township are the Destor Porcupine Fault Zone (DPFZ) and the Kirkland Lake-Larder Lake Fault Zone which cut the northern and southern limbs, respectively, of an eastern to southeasterly trending synclinorium with an easterly plunge. Numerous gold deposits are spatially related to these fault zones.

Figure 2: Regional Geology

Property Geology:

No outcrops were observed on the property. The claim group is underlain almost entirely by Mafic(to Intermediate) Metavolcanic Rocks/Intrusions. A small area to the east central portion of the property is interpreted to be Ultramafic(to Mafic) Metavolcanic Rocks/Intrusions.

The Guibord Property is positioned where the Arrow Fault to the south and a semi-parallel splay are converging towards the east boundary of the claim block. (See Figure 3)

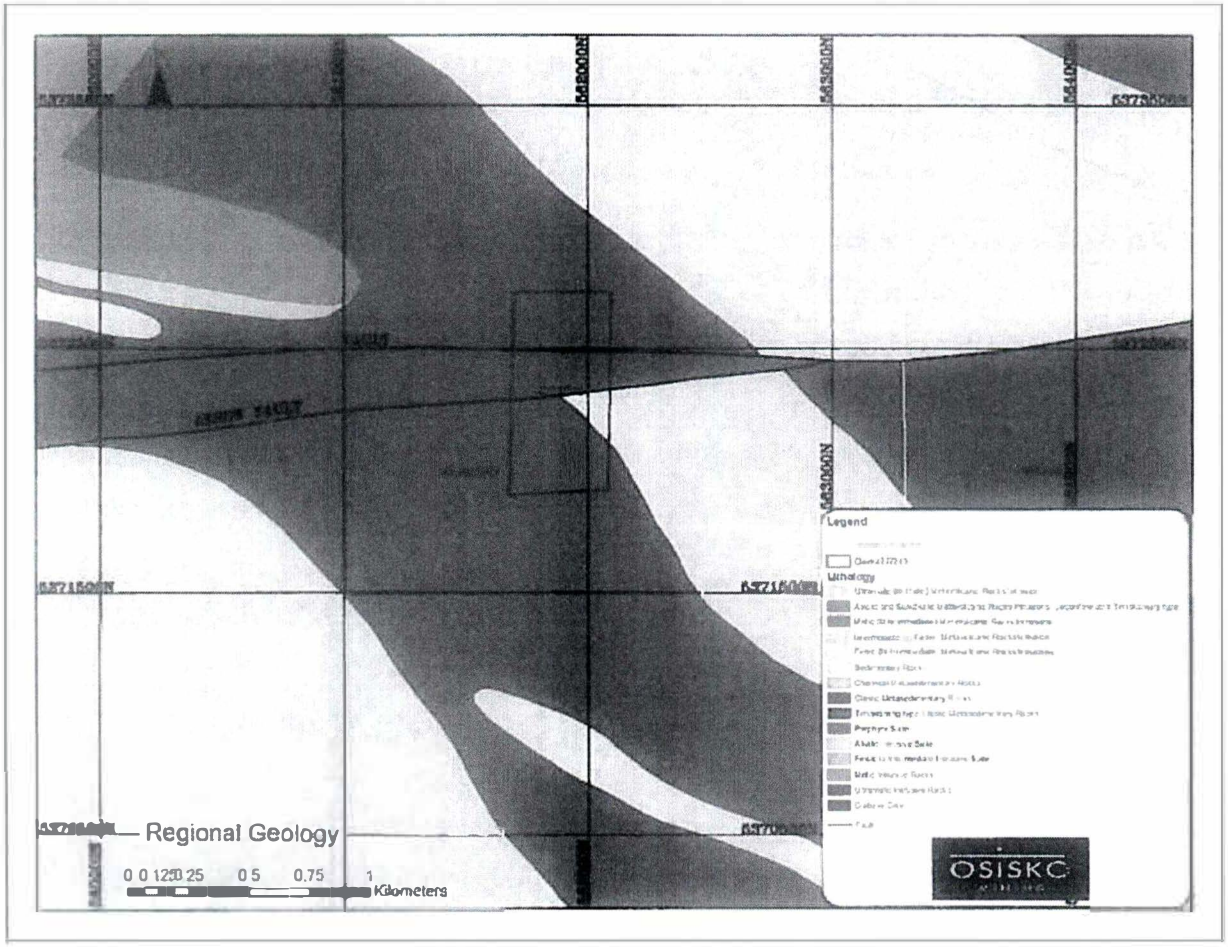


Figure 3: Property Geology

Sample Procedure:

A virtual line grid was planned using ArcGIS software having 4 lines spaced at 100m, and stations were allocated for every 50m interval along each N-S line for a total of 2.40km. UTM coordinates were derived for each station and two personnel (Dave Eves and Lisa Lang) were outfitted with maps depicting the stations, and a Garmin EXPLORIST GPS per man in order to locate the stations.

Samples were taken using a steel garden spade, and placed into 6mil poly bags that were labelled with the corresponding station designation. These bags were then placed into a larger 6 mil poly bag in order to separate the samples by line, and to facilitate easy handling. Each sample was given a quick written description including: depth of sample, sample name, soil type, soil condition, and local dendrology.

The following is an excerpt from the MMI Soil Sampling Guide, by SGS Labs, in regards to sampling in Boreal Climactic Zones:

- *Scrape away any loose non-decomposed matter, debris, and any possible cultural contamination.*
- *Dig a small pit to penetrate the organic material that still has structure (i.e. decomposing leaves, bark, twigs and peat).*
- *Identify where the organics begin to decompose and you start to see soil formation. This is the true interface (organic / inorganic) at which to begin your measurements.*
- *Collect the sample between 10 and 25 cm below this interface. The sample should be a continuous composite taken from the 15 cm interval.*
- *Using a plastic scoop take a cross section of the material between the 10 to 25 cm depth and put into clean, properly labelled plastic bags. Collect approx. 250 to 350 grams of material.*
- *Samples were counted and logged by the author upon receipt, then placed into boxes for shipping to SGS Labs.*

Assay Method:

Samples were sent to SGS Labs for Mobile Metal Ion detection assays using the MMI-M package to take advantage of the flexible multi-element assay (8) option with lower detection limits, at a reasonable cost. We will test for Gold(Au), Silver(Ag), Copper(Cu), Arsenic(As), Zinc(Zn), Lead(Pb), Platinum(Pd), and Potassium(K). The samples will be returned to Northern Gold Mining after the analysis.

MMI Theory:

The theory given below was taken from the SGS Labs - Geochem Analysis 2012 Brochure:

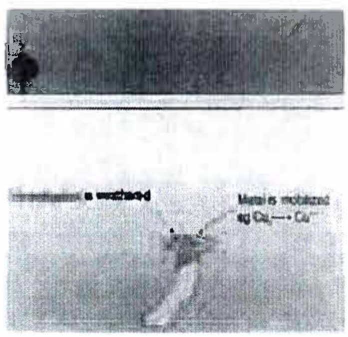
MMI® Technology is an innovative analytical process that uses a unique approach to the analysis of metals in soils and weathered materials.

Target elements are extracted using weak solutions of organic and inorganic compounds rather than conventional aggressive acid or cyanide- based digests. MMI® solutions contain strong ligands, which detach and hold in solution the metal ions that were loosely bound to soil particles by weak atomic forces. The extraction does not dissolve the bound forms of the metal ions. Thus, the metal ions in the MMI solutions are the chemically active or 'mobile' component of the sample. Because these mobile, loosely bound complexes are in very low concentrations, measurement is by conventional ICP-MS and the latest evolution of this technology, ICP-MS Dynamic Reaction Cell™ (DRC II™). (See Figure 4)

The MMI Theory - What is MMI Geochemistry

Mobile Metal Ions is a term used to describe ions which have moved in the weathering zone and that are only weakly or loosely attached to surface soil particles It is a widely held belief that these Mobile Metal Ions are transported from deeply-buried ore bodies to the surface Scientists from around the world have been studying this phenomenon for many years

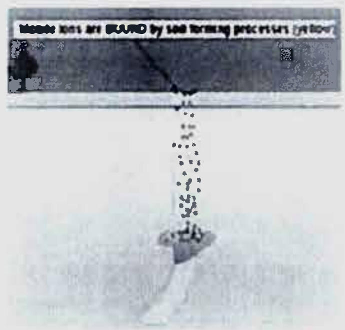
No-one is completely clear on exactly how the metal ions migrate to the surface However, research and case studies over known ore-bodies have shown that mobile metal ions accumulate in surface soils above mineralization, indicating that the metals are derived from the mineralization source The diagram below demonstrates a hypothetical model by which mobile ions are released from ore bodies migrate vertically and accumulate in surface soils



As the ions reach the surface, they attach themselves weakly to the soil particles. These are the ions that are measured by the MMI Technique to find mineralization at depths The weakly attached ions are at very low concentrations Because the ions have recently arrived to the surface they provide a precise 'signal' on where the ore-bodies are

When the mobile metal ions have arrived at the surface they have a limited lifetime as 'mobile' ions. At the surface the ions are subject to weathering and are bound up by soil forming processes (i e they become part of the soil) The diagram below demonstrates this process Note that bound ions (yellow) are subject to lateral movement away from the mineralization The mobile ions (blue), however do not move away from the source (mineralization) because they have a limited lifetime before they are

When the mobile metal ions have arrived at the surface they have a limited lifetime as mobile ions. At the surface the ions are subject to weathering and are bound up by soil forming processes (i.e. they become part of the soil). The diagram below demonstrates this process. Note that bound ions (yellow) are subject to lateral movement away from the mineralization. The mobile ions however do not move away from the source (mineralization) because they have a limited lifetime before they are converted to a bound form.



By only measuring the mobile metal ions in the surface soil, MMI Geochemistry will produce very sharp responses (anomalies) directly over the source of mobile ions. This source is ore-bodies at depth, which emit metal which make up that ore-body. For example a Cu Pb Zn base metal deposit will emit mainly Cu Pb and Zn ions.

Figure 4: MMI Theory

Results:

<u>Gold:</u> Detection Limit = 0.1 ppb

Of the 64 samples collected the gold response was poor, 75% being below the detection limit. Eight samples were at the detection limit of 0.1ppb while 6 samples were at 0.2ppb. One sample was at 0.3 and one sample was 0.8ppb found along Line 0 at 5617552/5372577

(See **Au** Plan Map)

<u>Silver:</u> Detection Limit = 0.5 ppb

All the 64 samples collected and analyzed for Ag 85.9% were found to be above the detection limit of 0.5ppb. Values ranged from <0.5ppb to 4.6ppb. The values show no real geochemical trends and seem to create isolated NE-SW trending features.

(See **Ag** Plan Map)

Copper: Detection Limit = 10 ppb

The Cu values obtained from the MMI analysis were found to be above the detection limit. Values ranged from a low of 20ppb to a high of 930ppb. The average value being 223ppb.The Cu values show the greater concentrations to the SE portion of the claim block .

(See **Cu** Plan Map)

Lead: Detection Limit = 5 ppb

All but 2 samples were found to be above the detection limit. Values ranged from a low of <5ppb to a high of 1280ppb, the average value being around 170ppb. Again values are widespread and do not seem to form any meaningful geochemical trends.

(See **Pb** Plan Map)

Zinc: Detection Limit = 10 ppb

All but 1 sample were found to be above the detection limit. Values ranged from a low of <10ppb to a high of 980ppb, the average value being around 228 ppb. Again values are widespread and do not seem to form any meaningful geochemical trends.

(See **Zn** Plan Map)

Paladium: Detection Limit = 1.0 ppb

The Pd values were found to be very flat with no values above the detection limit.

(See **Pd** Plan Map)

Arsenic: Detection Limit = 10 ppb

Of the 64 samples collected approximately 21% were below the detection limit. Values ranged from below the detection limit to a high of 80 ppb, the average value being around 23ppb. Again values are widespread and do not seem to form any meaningful geochemical trends.

(See **As** Plan Map)

Potassium: Detection Limit = 0.5ppb

All but 1 sample were found to be above the detection limit. Values ranged from a low of <0.5ppb to a high of 25.4ppb, the average value being around 5.8 ppb. Again values are widespread and do not seem to form any meaningful geochemical trends.

(See **K** Plan Map)

Conclusions and Recommendations:

In conclusion the MMI Geochemical Survey has not produced any meaning full results

As mentioned before no outcrops were observed on the property an a significant amount of ground within the Guibord Claim is swamp and underlain by Pleisocene varved clays, sand, gravel and boulders. The effectiveness of the MMI Survey proved to be somewhat unclear.

It would be prudent at this stage to augment the MMI Survey with some type of deep penetrating geophysical method as well as investigate any known drill holes in the vicinity of the property.

References:

1948 Satterly, J., Geology of Garrison Township, District of Cochrane, PR 1948-2 Ontario Department of Mine

1949 Satterly, J., O.G.S. Map No. 1948-1, Scale 1:20,000

1999 Ayer, J.A., Berger, B.R. and Trowell, N.F., 1999, Geological compilation of the Lake Abitibi greenstone belt, O.G.S. Map P3398, Scale 1:100,000

STATEMENT OF QUALIFICATIONS

I, Brian Madill, of 142 Carter Ave. Kirkland Lake, Ontario, do hereby certify that:

1. I am a Prospector/Geological/Geophysical Technician and have been practicing my profession for the past 38 years.

2. I am a graduate of Cambrian College, Sudbury, Ontario having received a Geological Engineering Technician diploma in 1979.

3. My knowledge of the property described herein was obtained by fieldwork and documentation.

4. I do not have or expect to receive any interest in the property that forms the basis of this report.

5. I am qualified to author this report.

Respectfully,

Brian H. Madill

Appendix

1832	30	Sand	Dry, Light brown to greyish, medium to fine grained
1833	30	Sand, silt, clay	Moist, Reddish brown fine grained, light to dark grey silt and clay
1834	30	Sand, silt, clay	Moist, Reddish brown fine grained, light to dark grey silt and clay
1835	30	Silt, clay mix	Wet, Dark brown fine grained silt, minor dark brown clay
1836	30	Silt, clay mix	Wet, Dark brown fine grained silt, minor dark brown clay
1837	30	Silt, clay mix	Wet, Dark brown fine grained silt, minor dark brown clay
1838	30	Sand	Wet, Black to brown, course grained, small pebbles, minor organics
1839	30	Silt, clay mix	Wet, Black to brown fine grained silt, minor greyish brown clay
1840	30	Sand	Dry, Light brown, medium to course grained
1841	30	Silt, clay mix	Wet, dark brown, course grained, course pebbles, some minor organics
1842	30	Sand mix	Wet, dark brown, course pebbles, some minor organics

10

ample umber	Depth of Sample Sample (cm)	Type of Soil	Description of Soil Type
1843	30	Silt, clay mix	Wet, Dark brown, fine to medium grained silt, minor dark brown clay, minor organics
1844	30	Silt, clay mix	Wet, Dark brown, fine to medium grained silt, minor dark brown clay, minor organics
1845	30	Silt, clay mix	Wet, Dark brown, fine to medium grained silt, minor dark brown clay, minor organics
1846	30	Silt, clay mix	Moist, Light brown to grey, fine to medium grained, organics
1847	30	Sand, silt, clay	Moist, Light brown to grey, fine to medium grained, minor organics
1848	30	Sand, silt, clay	Moist, brown to grey, fine to medium grained, organics
1849	30	Sand, silt, clay	Moist, dark brown to grey, fine to medium grained, organics
1850	30	Sand, silt, clay	Wet, Dark brown fine grained silt, minor dark brown clay
1851	30	Sand	Light brown, fine grained
[illegible]	[illegible]	[illegible]	[illegible]

1864	30	Sand, silt, clay	Moist, dark brown to light grey, fine to medium grained, organics
1865	30	Sand, silt, clay	Moist, dark brown to grey, fine to medium grained, organics
1866	30	Sand, silt	Moist, dark brown, medium to coarse grained, organics
1867	30	Sand	Light brown, fine grained
1868	30	Sand, silt	Moist, dark brown, medium to coarse grained, organics
1869	30	Sand	Light brown, fine grained
1870	30	Sand, silt, clay	Moist, dark brown to grey, fine to medium grained, organics
1871	30	Sand, silt, clay	Moist, dark brown to grey, fine to medium grained, organics
1872	30	Sand, silt, clay	Moist, dark brown to grey, fine to medium grained, organics
1873	30	Sand, silt	Moist, dark brown, medium to coarse grained, minor organics
1874	30	Sand	Light brown, fine grained

10

ample umber	Depth of Sample Sample (cm)	Type of Soil	Description of Soil Type
1875	40	Sand, silt, clay	Moist, dark brown to grey, fine to medium grained, organics
1876	30	Sand, silt	Moist, dark brown to grey, fine to medium grained, organics
1877	30	Sand, silt, clay	Moist, dark brown to grey, fine to medium grained, organics
1878	40	Silt, clay	Wet, dark brown, fine to medium grained, minor organics
1879	40	Humus	Wet, black, highly organic
1880	40	Silt, clay	Moist, black to reddish brown, minor organics
1881	30	Sand, silt, clay	Moist, dark brown to grey, fine to medium grained, organics
1882	30	Sand, silt, clay	Moist, dark brown, fine to medium grained, organics
1883	30	Sand	Moist, dark brown, medium to coarse grained, coarse pebbles, organics

SGS

Certificate of Analysis
Work Order : VC171869
[Report File No.: 0000023125]

Date: June 23, 2017

To: **GREG MATHESON**
OSISKO MINING INC
155 UNIVERSITY AVE
SUITE 1440
TORONTO ON M5H 3B7

P.O. No.: OSISKO MINING 64 samples
Project No.: -
Samples: 64
Received: Jun 19, 2017
Pages: Page 1 to 3
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
64	G_LOG02	Pre-preparation processing, sorting, logging, boxing
64	GE_MMI_M	Mobile Metal ION standard package/ICP-MS

Storage: Pulp & Reject

REJECT STORAGE DISPOSE AFTER 30 DAYS

Certified By

John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

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

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods

This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativity of the goods and strictly relate to the sample (s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law

SGS

	Element	Au	Ag	Cu	Pb	Zn	Pd	As	K
	Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	Det.Lim.	0.1	0.5	10	5	10	1	10	0.5
	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
1826		<0.1	3.2	110	228	320	<1	20	5.5
1827		<0.1	1.2	230	99	170	<1	40	5.4
1828		<0.1	1.0	140	266	110	<1	<10	1.6
1829		0.8	0.9	270	16	60	<1	<10	8.0
1830		<0.1	0.5	240	12	50	<1	<10	7.3
1831		<0.1	2.0	110	21	90	<1	20	2.7
1832		0.2	0.7	240	14	50	<1	<10	7.2
1833		<0.1	2.5	90	103	210	<1	20	4.7
1834		0.1	4.6	110	175	170	<1	30	5.7
1835		<0.1	1.7	110	32	120	<1	30	2.8
1836		<0.1	1.1	200	134	240	<1	40	4.6
1837		<0.1	1.1	140	106	350	<1	20	3.9
1838		<0.1	0.9	410	188	980	<1	20	11.5
1839		<0.1	0.9	170	212	110	<1	10	2.1
1840		<0.1	1.2	90	100	90	<1	<10	3.5
1841		<0.1	1.5	710	564	390	<1	30	8.1
1842		<0.1	2.1	640	162	370	<1	30	12.0
1843		<0.1	0.7	110	47	120	<1	30	3.9
1844		<0.1	1.2	110	10	40	<1	<10	1.7
1845		<0.1	1.2	90	7	40	<1	<10	1.4
1846		<0.1	2.4	130	327	550	<1	30	7.1
1847		<0.1	2.4	110	260	380	<1	50	8.8
1848		0.1	3.4	140	321	430	<1	30	6.9
1849		<0.1	2.2	120	201	630	<1	30	7.6
1850		<0.1	1.2	100	15	60	<1	10	2.0
1851		0.2	1.4	110	37	60	<1	10	6.7
1852		<0.1	1.2	130	26	60	<1	20	2.7
1853		0.3	2.4	130	280	350	<1	30	8.6
1854		<0.1	3.1	160	331	460	<1	40	8.9
1855		<0.1	1.4	90	46	90	<1	20	1.9
1856		<0.1	1.6	160	121	160	<1	30	3.1
1857		0.1	2.4	300	131	160	<1	10	16.6
1858		<0.1	2.1	110	139	340	<1	30	7.3
1859		0.1	<0.5	400	188	100	<1	70	8.8
1860		0.1	1.4	150	79	150	<1	30	3.0
1861		<0.1	1.2	110	9	30	<1	10	1.9
1862		<0.1	<0.5	270	97	180	<1	80	17.2
1863		<0.1	1.1	200	<5	<10	<1	<10	1.7
1864		0.1	1.2	140	15	40	<1	10	1.9
1865		<0.1	0.6	700	858	330	<1	30	4.8

This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativity of the goods and strictly relate to the sample (s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Canada Inc. | Minerals Suite E - 3260 Production Way Burnaby BC t(604) 638-2349 f(604) 444-5486 www.ca.sgs.com

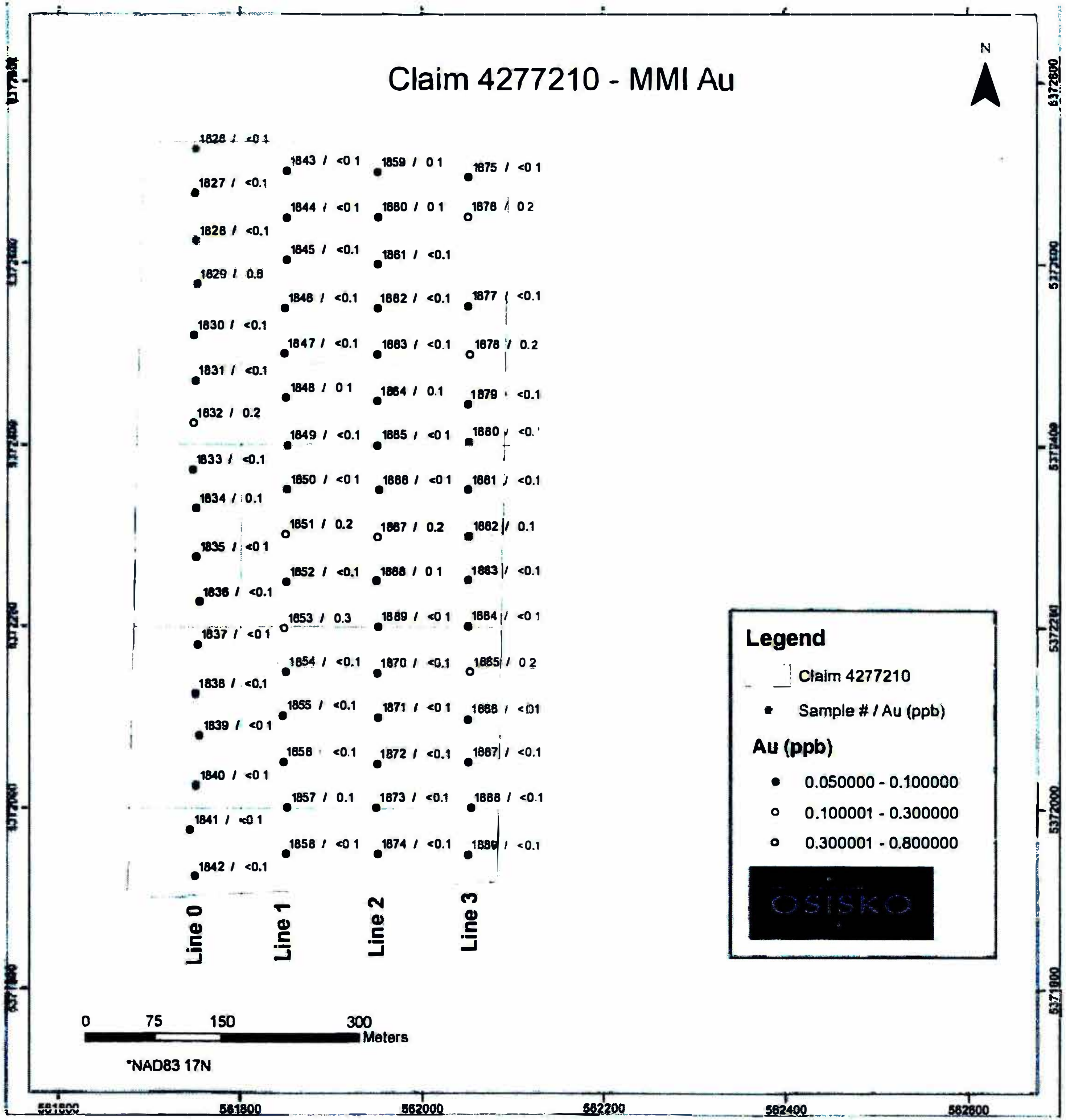
Member of the SGS Group (Société Générale de Surveillance)

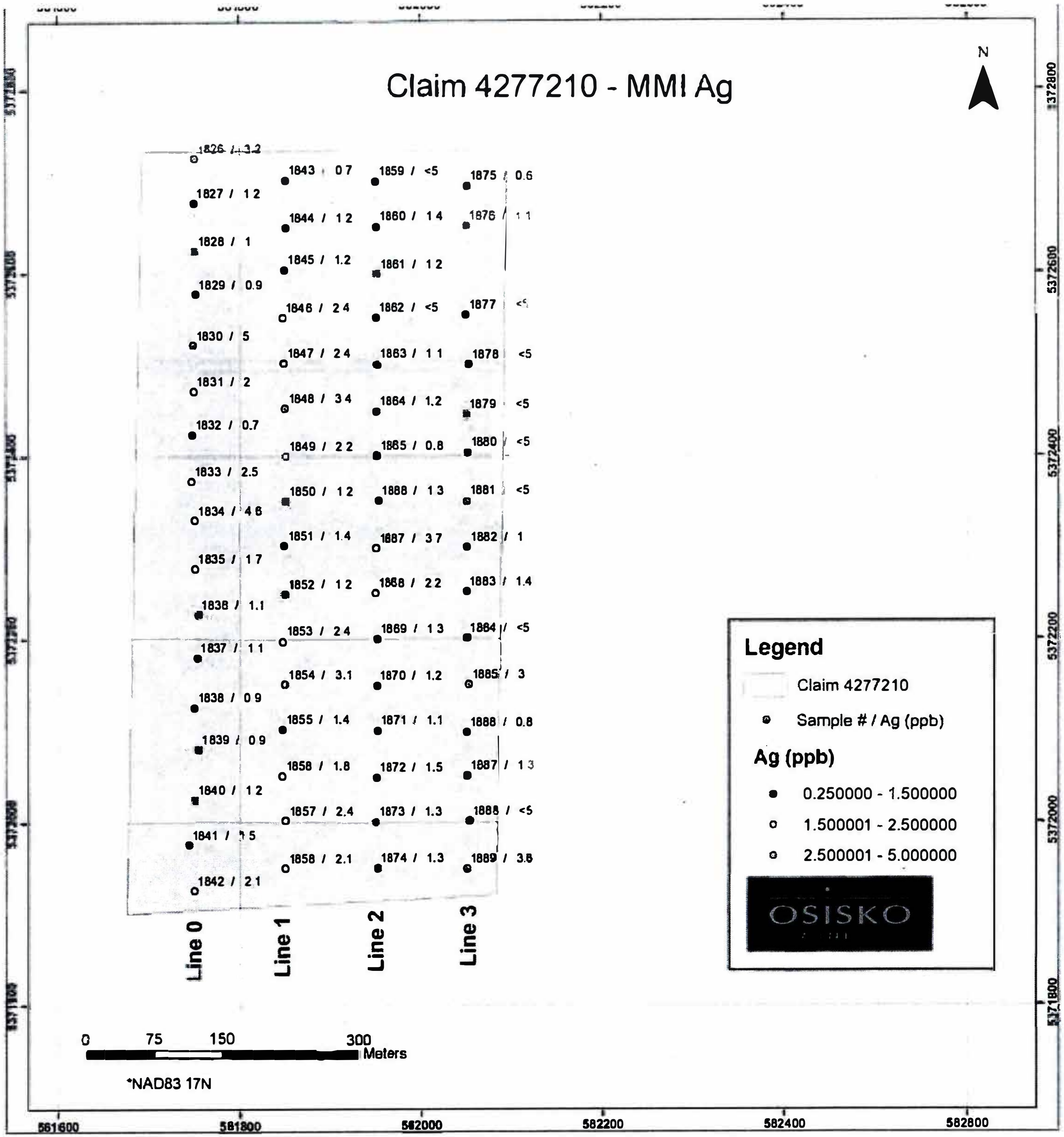
	Au	Ag	Cu	Pb	Zn	Pd	As	K
Element	Au	Ag	Cu	Pb	Zn	Pd	As	K
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	0.1	0.5	10	5	10	1	10	0.5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm
1866	<0.1	1.3	160	115	210	<1	40	3.9
1867	0.2	3.7	670	172	220	<1	20	25.4
1868	0.1	2.2	620	140	370	<1	40	14.5
1869	<0.1	1.3	90	26	30	<1	<10	6.0
1870	<0.1	1.2	140	6	20	<1	<10	1.9
1871	<0.1	1.1	120	18	60	<1	10	2.1
1872	<0.1	1.5	100	31	120	<1	20	2.3
1873	<0.1	1.3	130	53	150	<1	20	2.8
1874	<0.1	1.3	80	112	90	<1	<10	3.8
1875	<0.1	0.6	60	316	230	<1	<10	2.7
1876	0.2	1.1	350	1280	460	<1	70	13.9
1877	<0.1	<0.5	20	25	70	<1	30	5.0
1878	0.2	<0.5	180	353	960	<1	20	6.7
1879	<0.1	<0.5	110	409	430	<1	10	1.6
1880	<0.1	<0.5	140	<5	40	<1	<10	<0.5
1881	<0.1	<0.5	450	146	260	<1	20	6.7
1882	0.1	1.0	90	44	90	<1	20	2.1
1883	<0.1	1.4	880	276	360	<1	80	8.4
1884	<0.1	<0.5	360	320	90	<1	20	3.0
1885	0.2	3.0	120	217	320	<1	30	4.8
1886	<0.1	0.8	930	354	500	<1	50	7.6
1887	<0.1	1.3	70	30	150	<1	20	2.8
1888	<0.1	<0.5	210	225	390	<1	30	7.1
1889	<0.1	3.6	110	219	320	<1	20	4.9
*Rep 1829	0.3	0.8	280	16	60	<1	<10	8.4
*Rep 1847	<0.1	2.3	110	272	390	<1	40	9.6
*Rep 1858	0.2	2.2	110	146	410	<1	30	6.5
*Rep 1870	<0.1	1.1	140	7	20	<1	<10	2.0
*Std MMISRM18	8.2	22.6	870	409	790	13	20	22.3
*Std MMISRM19	4.8	25.0	2080	1170	2830	<1	10	90.9
*Blk BLANK	<0.1	<0.5	<10	<5	<10	<1	<10	<0.5
*Blk BLANK	<0.1	<0.5	<10	<5	<10	<1	<10	<0.5

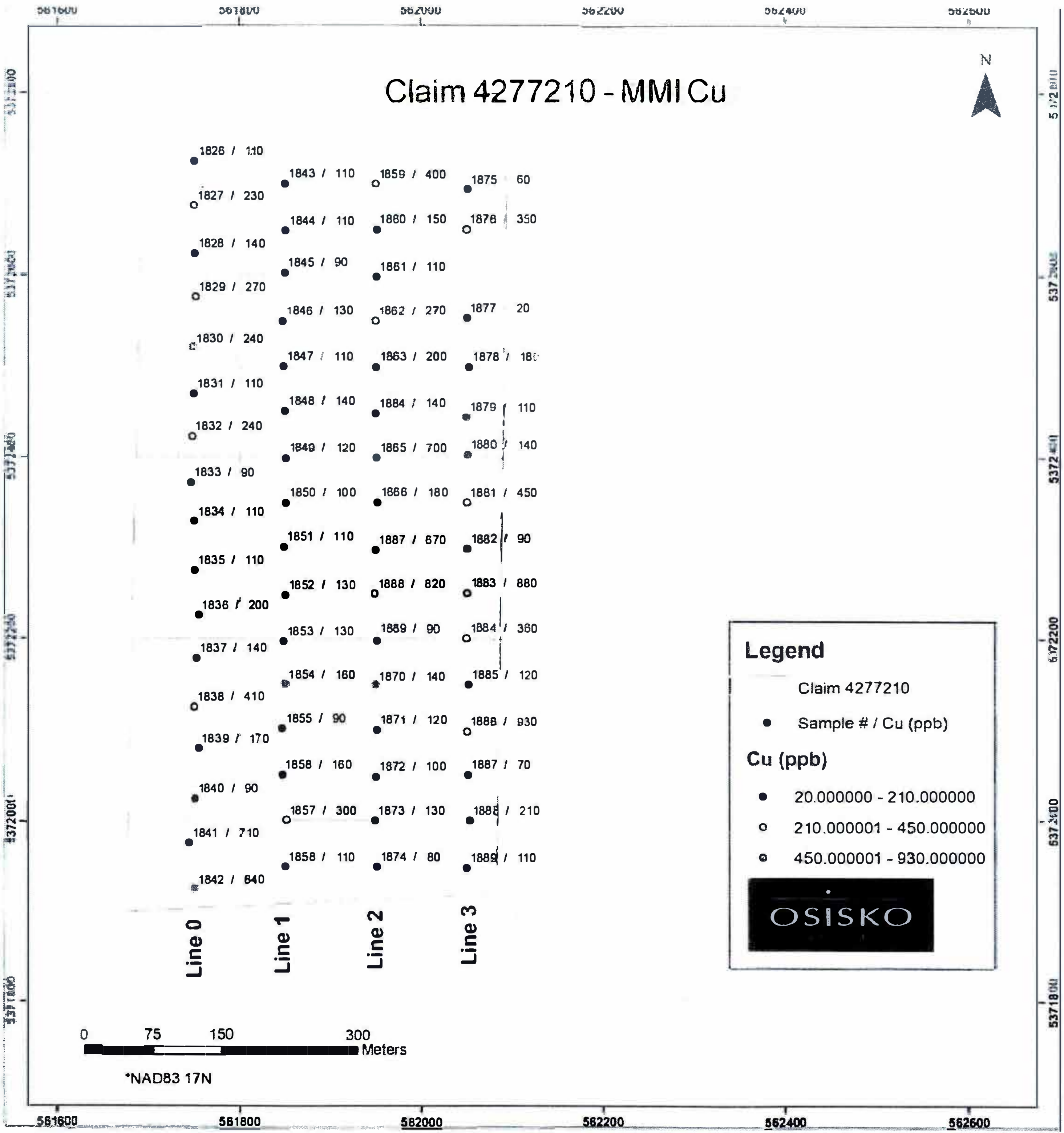
This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativity of the goods and strictly relate to the sample (s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law .

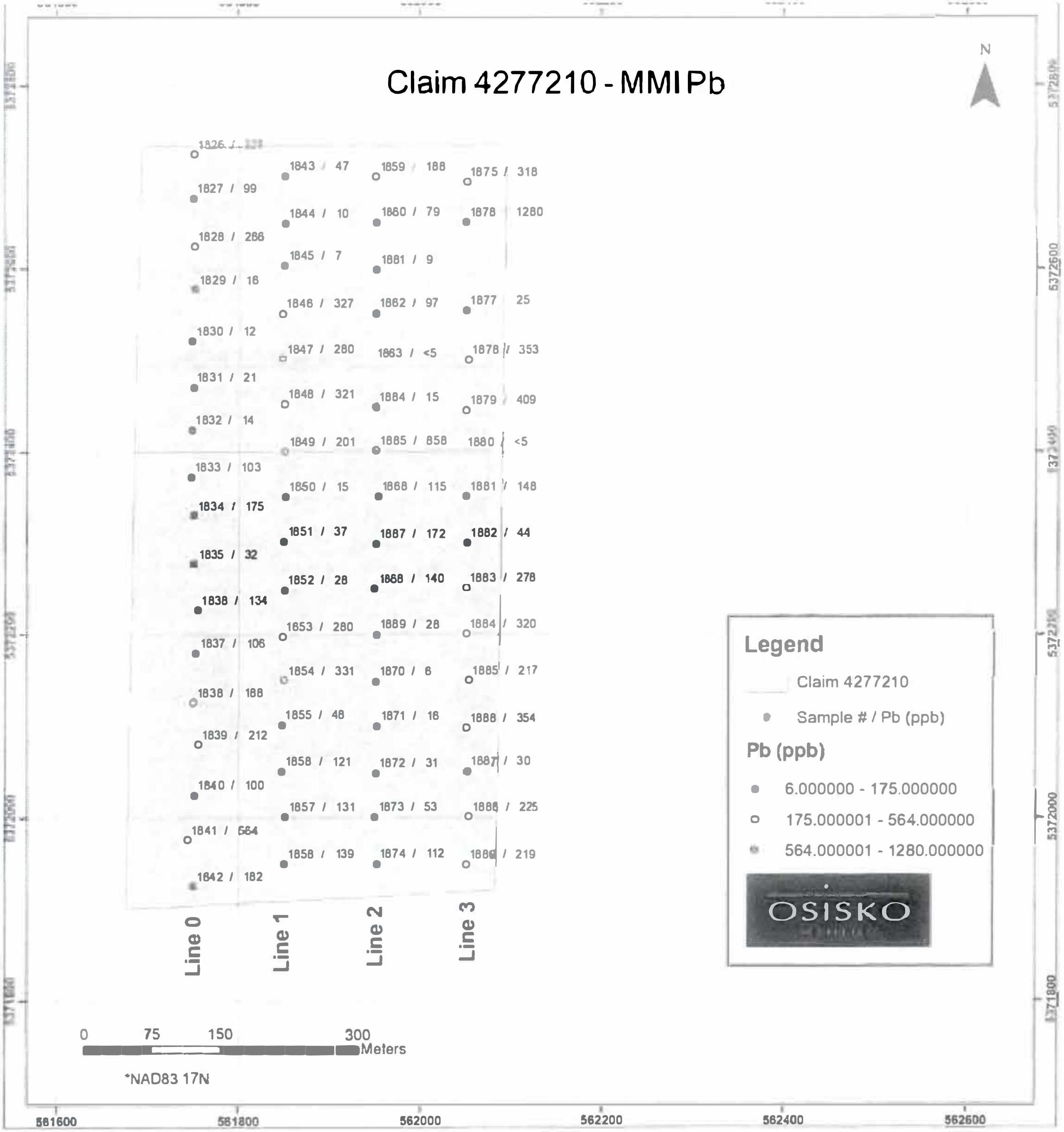
Soil Sample Plan Maps


Claim 4277210 - MMI Au
N
Line 0
Line 1
Line 2
Line 3
Legend
Claim 4277210
Sample # / Au (ppb)
Au (ppb)
0.050000 - 0.100000
0.100001 - 0.300000
0.300001 - 0.800000
0 75 150 300 Meters
*NAD83 17N
561800
562000
562200
562400
562600
5372000
5372200
5372400
5372600
5371800

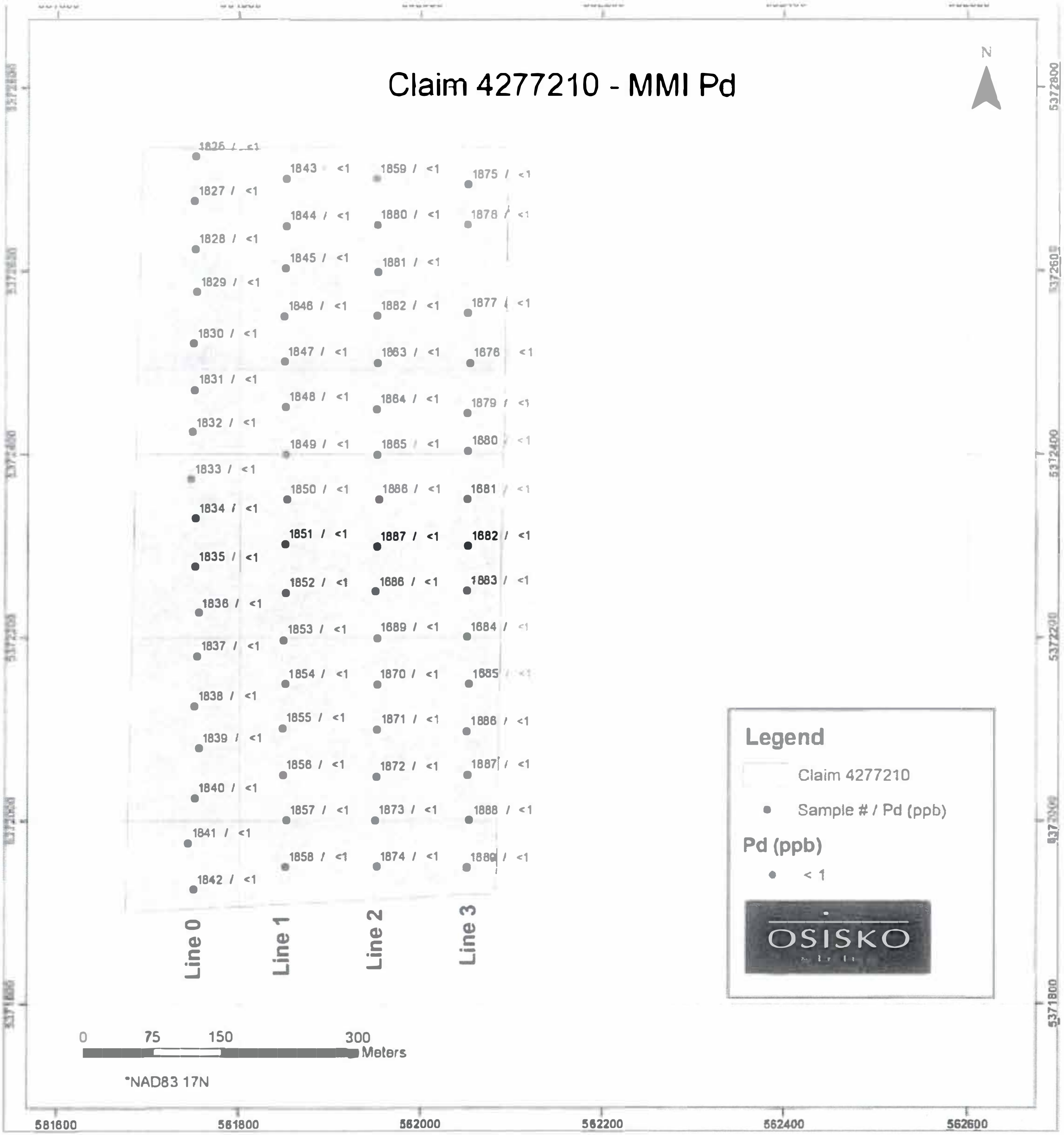

Claim 4277210 - MMI Ag
N
1826 / 3.2
1827 / 1.2
1828 / 1
1829 / 0.9
1830 / 5
1831 / 2
1832 / 0.7
1833 / 2.5
1834 / 4.6
1835 / 1.7
1836 / 1.1
1837 / 1.1
1838 / 0.9
1839 / 0.9
1840 / 1.2
1841 / 1.5
1842 / 2.1
1843 / 0.7
1844 / 1.2
1845 / 1.2
1846 / 2.4
1847 / 2.4
1848 / 3.4
1849 / 2.2
1850 / 1.2
1851 / 1.4
1852 / 1.2
1853 / 2.4
1854 / 3.1
1855 / 1.4
1856 / 1.8
1857 / 2.4
1858 / 2.1
1859 / <5
1860 / 1.4
1861 / 1.2
1862 / <5
1863 / 1.1
1864 / 1.2
1865 / 0.8
1866 / 1.3
1867 / 3.7
1868 / 2.2
1869 / 1.3
1870 / 1.2
1871 / 1.1
1872 / 1.5
1873 / 1.3
1874 / 1.3
1875 / 0.6
1876 / 1.1
1877 / <5
1878 / <5
1879 / <5
1880 / <5
1881 / <5
1882 / 1
1883 / 1.4
1884 / <5
1885 / 3
1886 / 0.8
1887 / 1.3
1888 / <5
1889 / 3.8
Line 0
Line 1
Line 2
Line 3
Legend
Claim 4277210
Sample # / Ag (ppb)
Ag (ppb)
0.250000 - 1.500000
1.500001 - 2.500000
2.500001 - 5.000000
OSISKO
0
75
150
300
Meters
*NAD83 17N
581600
581800
582000
582200
582400
582800
5371800
5372000
5372200
5372400
5372600
5372800



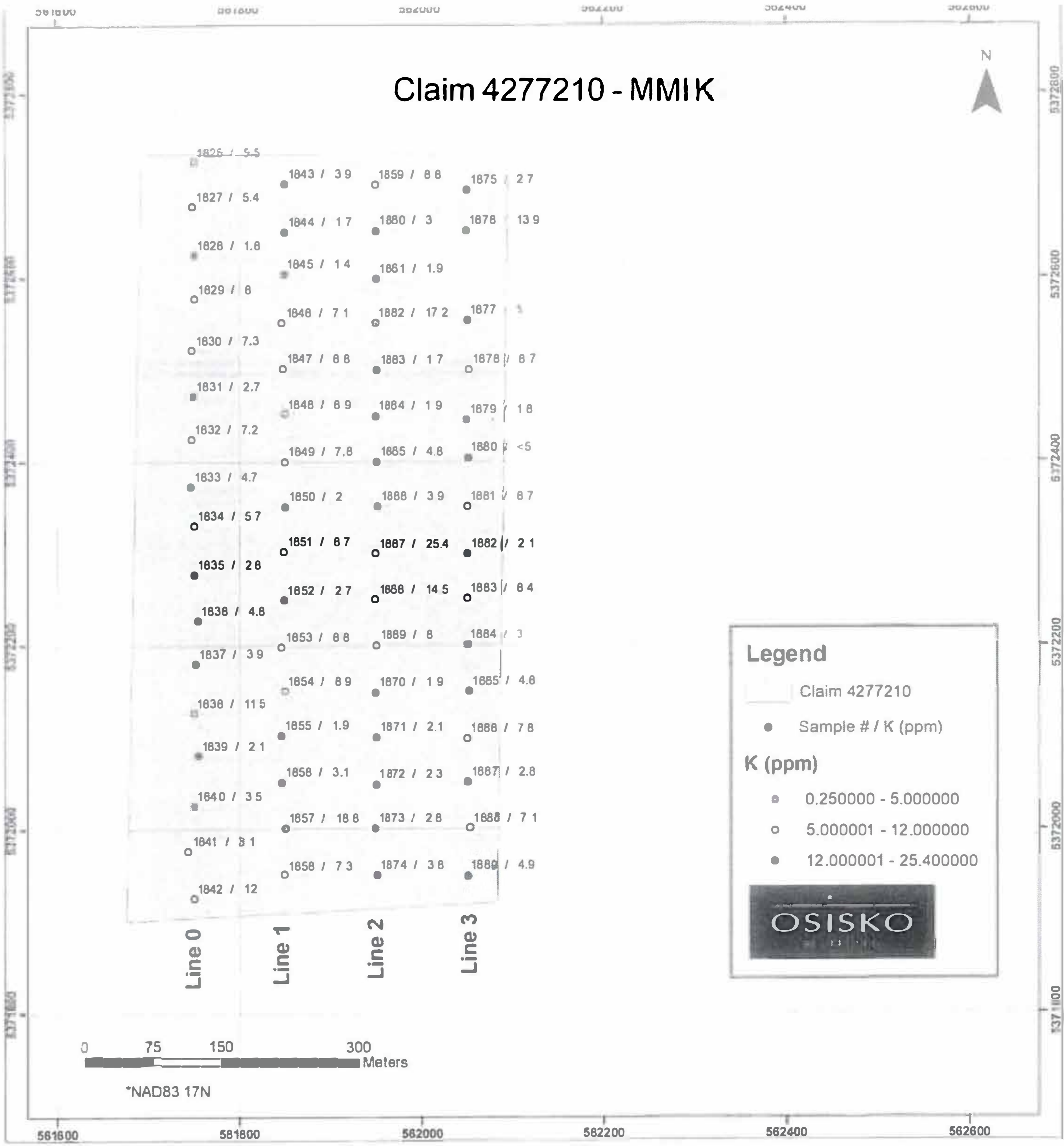
Claim 4277210 - MMI Cu
N
1826 / 110
1827 / 230
1828 / 140
1829 / 270
1830 / 240
1831 / 110
1832 / 240
1833 / 90
1834 / 110
1835 / 110
1836 / 200
1837 / 140
1838 / 410
1839 / 170
1840 / 90
1841 / 710
1842 / 640
1843 / 110
1844 / 110
1845 / 90
1846 / 130
1847 / 110
1848 / 140
1849 / 120
1850 / 100
1851 / 110
1852 / 130
1853 / 130
1854 / 160
1855 / 90
1856 / 160
1857 / 300
1858 / 110
1859 / 400
1860 / 150
1861 / 110
1862 / 270
1863 / 200
1864 / 140
1865 / 700
1866 / 180
1867 / 670
1868 / 820
1869 / 90
1870 / 140
1871 / 120
1872 / 100
1873 / 130
1874 / 80
1875 60
1876 350
1877 20
1878 / 180
1879 110
1880 140
1881 / 450
1882 / 90
1883 / 880
1884 / 360
1885 / 120
1886 / 930
1887 / 70
1888 / 210
1889 / 110
Line 0
Line 1
Line 2
Line 3
Legend
Claim 4277210
Sample # / Cu (ppb)
Cu (ppb)
20.000000 - 210.000000
210.000001 - 450.000000
450.000001 - 930.000000
OSISKO
0 75 150 300 Meters
*NAD83 17N
561600
561800
562000
562200
562400
562600


Claim 4277210 - MMI Pb
N
1826 / 328
1827 / 99
1828 / 266
1829 / 16
1830 / 12
1831 / 21
1832 / 14
1833 / 103
1834 / 175
1835 / 32
1836 / 134
1837 / 106
1838 / 188
1839 / 212
1840 / 100
1841 / 564
1842 / 182
1843 / 47
1844 / 10
1845 / 7
1846 / 327
1847 / 280
1848 / 321
1849 / 201
1850 / 15
1851 / 37
1852 / 28
1853 / 280
1854 / 331
1855 / 48
1856 / 121
1857 / 131
1858 / 139
1859 / 188
1860 / 79
1861 / 9
1862 / 97
1863 / <5
1864 / 15
1865 / 858
1866 / 115
1867 / 172
1868 / 140
1869 / 28
1870 / 6
1871 / 16
1872 / 31
1873 / 53
1874 / 112
1875 / 318
1876 / 1280
1877 / 25
1878 / 353
1879 / 409
1880 / <5
1881 / 148
1882 / 44
1883 / 278
1884 / 320
1885 / 217
1886 / 354
1887 / 30
1888 / 225
1889 / 219
Line 0
Line 1
Line 2
Line 3
Legend
Claim 4277210
Sample # / Pb (ppb)
Pb (ppb)
6.000000 - 175.000000
175.000001 - 564.000000
564.000001 - 1280.000000
OSISKO
0
75
150
300
Meters
*NAD83 17N
561600
561800
562000
562200
562400
562600
5372600
5372400
5372200
5372000
5371800

Claim 4277210 - MMI Zn


Claim 4277210 - MMI Pd
N
1826 / <1
1827 / <1
1828 / <1
1829 / <1
1830 / <1
1831 / <1
1832 / <1
1833 / <1
1834 / <1
1835 / <1
1836 / <1
1837 / <1
1838 / <1
1839 / <1
1840 / <1
1841 / <1
1842 / <1
1843 / <1
1844 / <1
1845 / <1
1846 / <1
1847 / <1
1848 / <1
1849 / <1
1850 / <1
1851 / <1
1852 / <1
1853 / <1
1854 / <1
1855 / <1
1856 / <1
1857 / <1
1858 / <1
1859 / <1
1860 / <1
1861 / <1
1862 / <1
1863 / <1
1864 / <1
1865 / <1
1866 / <1
1867 / <1
1868 / <1
1869 / <1
1870 / <1
1871 / <1
1872 / <1
1873 / <1
1874 / <1
1875 / <1
1878 / <1
1877 / <1
1876 <1
1879 / <1
1880 / <1
1881 / <1
1882 / <1
1883 / <1
1884 / <1
1885 / <1
1886 / <1
1887 / <1
1888 / <1
1889 / <1
Line 0
Line 1
Line 2
Line 3
Legend
Claim 4277210
Sample # / Pd (ppb)
Pd (ppb)
< 1
OSISKO
0
75
150
300
Meters
*NAD83 17N
581600
581800
582000
582200
582400
582600
5372600
5372400
5372200
5372000
5371800


Claim 4277210 - MMI As
N
1826 / 20
1827 / 40
1828 / <10
1829 / <10
1830 / <10
1831 / 20
1832 / <10
1833 / 20
1834 / 30
1835 / 30
1836 / 40
1837 / 20
1838 / 20
1839 / 10
1840 / <10
1841 / 30
1842 / 30
1843 30
1844 / <10
1845 / <10
1846 / 30
1847 / 50
1848 / 30
1849 / 30
1850 / 10
1851 / 10
1852 / 20
1853 / 30
1854 / 40
1855 / 20
1856 / 30
1857 / 10
1858 / 30
1859 / 70
1860 / 30
1861 / 10
1862 / 80
1863 / <10
1864 / 10
1865 / 30
1866 / 40
1867 / 20
1868 / 40
1869 / <10
1870 / <10
1871 / 10
1872 / 20
1873 / 20
1874 / <10
1875 / <10
1876 / 70
1877 / 30
1878 / 20
1879 / 10
1880 / <10
1881 / 20
1882 / 20
1883 / 80
1884 / 20
1885 / 30
1886 / 50
1887 / 20
1888 / 30
1889 / 20
Line 0
Line 1
Line 2
Line 3
Legend
Claim 4277210
Sample # / As (ppb)
As (ppb)
5.000000 - 10.000000
10.000001 - 40.000000
40.000001 - 80.000000
OSISKO
0
75
150
300
Meters
*NAD83 17N
561600
561800
562000
562200
562400
562600
5371800
5372000
5372200
5372400
5372600
5372800


Claim 4277210 - MMIK
N
Legend
Claim 4277210
Sample # / K (ppm)
K (ppm)
0.250000 - 5.000000
5.000001 - 12.000000
12.000001 - 25.400000
OSISKO
Line 0
Line 1
Line 2
Line 3
0
75
150
300
Meters
*NAD83 17N
561600
561800
562000
562200
562400
562600
5371800
5372000
5372200
5372400
5372600
5372800