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MMI Soil Geochem Assessment Report

Ogden Project

- Racetrack Group -

in

Ogden Township

Porcupine Mining District, Ontario

December 6, 2018

P. Burt, P.Geo

R Skeries, P.Geo

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SUMMARY

Central Timmins Exploration Corp. (CTEC) has an extensive property position within the City of Timmins, Ontario (**Fig.1**), covering highly prospective geology for both gold and base metal mineralization. Several follow-up MMI soil sampling profiles of varying lengths (11) were completed on the Ogden Project (or Racetrack Property) of the much larger CTEC Central Timmins Project. This work was performed by Exsics Exploration Ltd. In the summer of 2018, using GPS controlled sample profiles with sample sites defined by NADS 83 UTM Zone 17 coordinates.

Previous MMI sampling results had returned statistically anomalous gold, base metal, and rare earth responses in the Ogden Project sample population. The 2018 work was to test several areas of interest with additional, often orthogonal, profiles to better define the previous anomalous results and in some cases characterize airborne EM anomalies. New results were incorporated and selectively evaluated to verify anomalies and responses. It is recommended that some survey areas be sampled at a higher density or expanded with additional EW and NS profiles and target Pulse EM and IP be completed.

INTRODUCTION

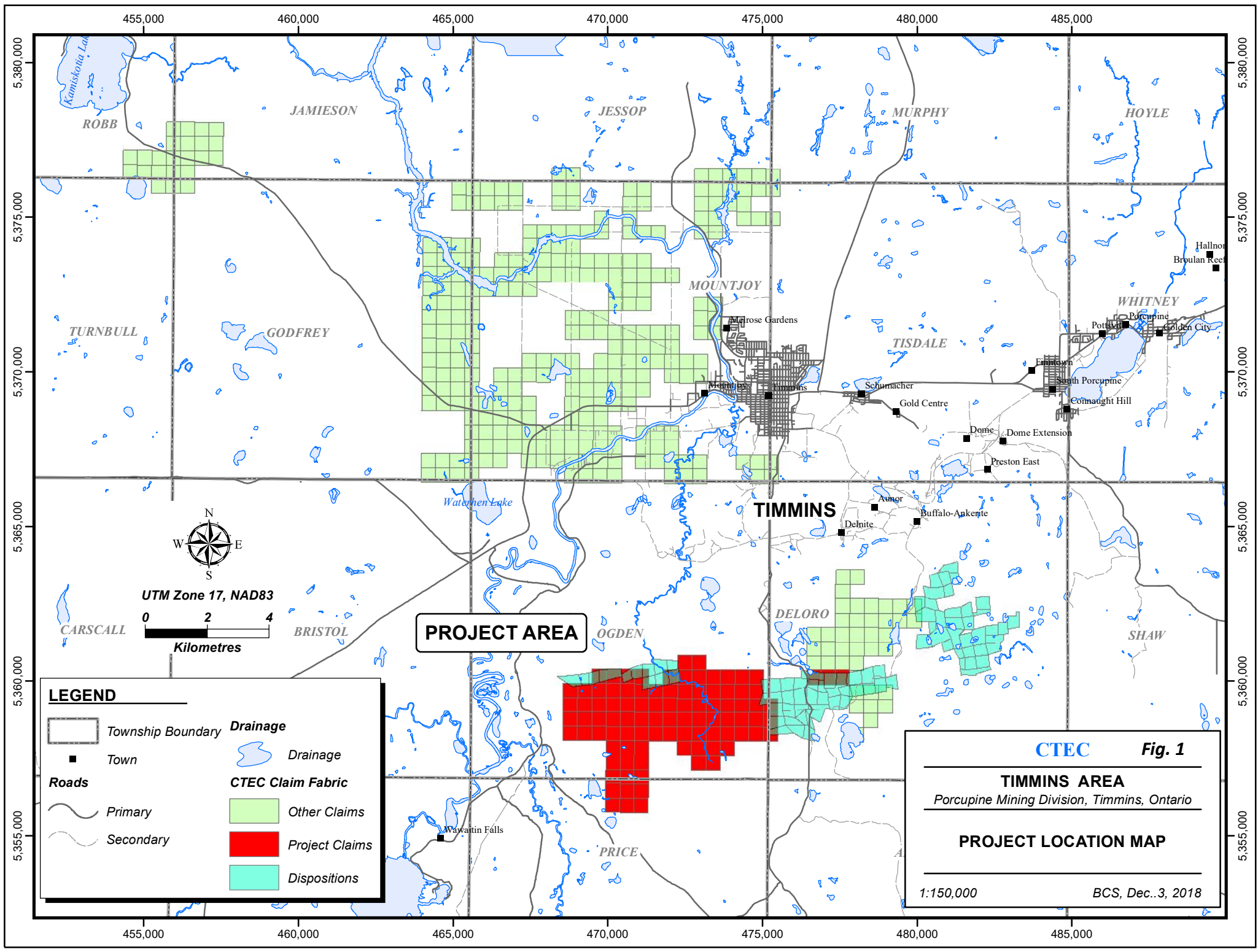
This assessment report covers recent exploration work completed on a portion of Central Timmins Exploration Corporation (CTEC) mineral exploration Ogden Township Project or Racetrack Property. The Property is believed to cover highly prospective geology for both gold and base metal mineralization in Ogden Township, and continues easterly into the immediately adjoining Deloro Township. Current work was completed during the summer of 2018, consisting of soil geochemistry surveys to validate earlier work and provide additional data for future follow-up sampling and targeted diamond drilling. Portions of the general property and geology information in this report have been sourced with modifications from the CTEC May 17, 2018 NI 43-101 report authored by P. Chamois of RPA and filed on SEDAR.

PROPERTY TENURE AND LOCATION

The Ogden Project in the southeastern portion of Ogden Township and is contiguous with additional mining lands in the immediately adjoining Deloro Township to the east. Historically there were 52 Patents and 13 legacy mining claims that straddle the Deloro and Ogden Townships boundary of which 103 legacy units, or 1,648 ha, and 14 patents covering approximately 165 ha, are in Ogden Township.

After the implementation of the new MLAS on April 10, 2018, the reconfiguration of the Ogden Project staked legacy claims did not significantly alter the total area due to boundary conditions created by scattered patented mining lands and other claim ownership. However the number of claim cells now totals a mixture of 72 boundary and 70 single cell mining claims as listed in Appendix D. (**Fig.2**) Note that 16 of the single cell mining claims are in fact undersized being “encumbered” by mining patents with reduced assessment requirements, but only if they remain as part of the conversion generation.

This area is accessible primarily by Pine St. South (Naybob Road) and numerous bush roads south and southwest of the Timmins city centre. Access from the west is via Dalton and Wawiatin Roads.



PROJECT AREA

LEGEND

	Township Boundary		Drainage
	Town		Other Claims
	Roads		Project Claims
	Primary		Dispositions
	Secondary		

CTEC *Fig. 1*

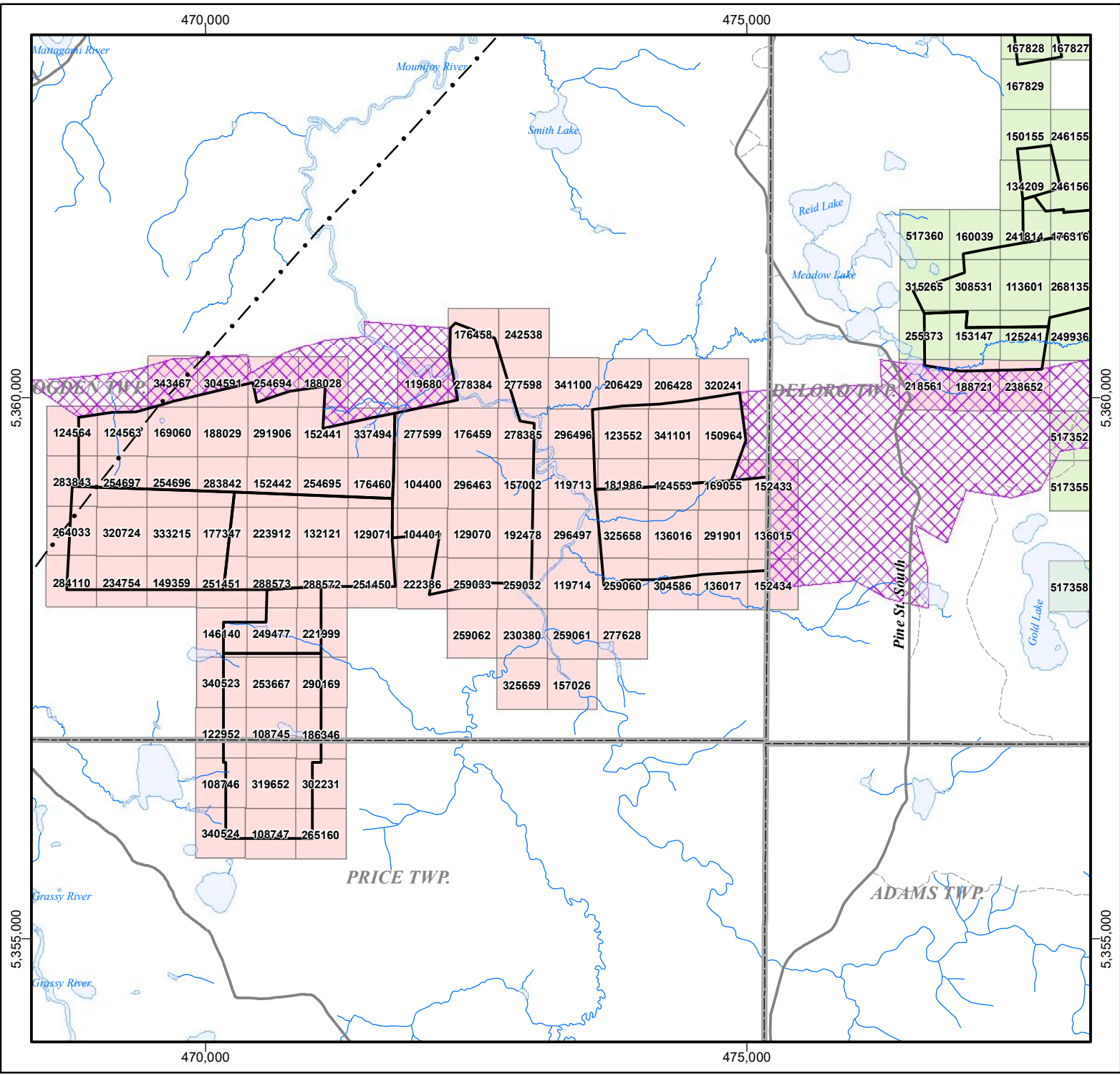
TIMMINS AREA
Porcupine Mining Division, Timmins, Ontario

PROJECT LOCATION MAP

1:150,000 BCS, Dec..3, 2018

Fig. 2

**OGDEN & DELORO TWPS.
CTEC CLAIM CONFIGURATION**



UTM Zone 17, NAD83
1:50,000
0 500 1,000
metres

LEGEND

- Drainage**
- Lake
- Creek
- Road**
- Primary
- Secondary
- Power Line
- CTEC Claim Configuration**
- Other CTEC Claim
- Assessment Block
- Legacy Claim
- CTEC Patents

December 3, 2018

CLIMATE AND PHYSIOGRAPHY

The group lies within the Boreal Shield and is marked by warm summer and cold, snowy winters with snow accumulations up to 2 metres. The climate is considered to be continental with overall temperature ranges of -40°C to +35°C. Despite the at times harsh climatic conditions, geophysical surveying and diamond drilling can be performed on a year-round basis. Geological mapping and geochemical sampling are typically restricted to the months of May through to October.

The regional landscape is generally of low relief dominated by fine-textured, level to undulating lacustrine deposits and sand dunes. Intermixed within these deposits are rare bedrock outcrops and frequent swamps. The area is relatively undeveloped with some timbered areas. The Mountjoy River provides major drainage. Tributaries, such as Paradise Creek to the east and draining westerly, are also linked to numerous small lakes that are concentrated in eastern Ogden and western Deloro Townships.

Much of this property is located within low undulating sand dunes covered by Jack pine, birch and poplar. Swampy organic terrain with spruce-tamarack-alder cover is also common. The west part of the grid area is an undulating, low sandy glacial outwash plain

GEOLOGY AND MINERALIZATION

REGIONAL FRAMEWORK

The Ogden Project is part of the Central Timmins Project which lies within the Southern Abitibi Greenstone Belt (SAGB) of the Superior Province in northeastern Ontario. In very general terms, the Abitibi Sub-province consists of Late Archean metavolcanic rocks, related synvolcanic intrusions, and clastic metasedimentary rocks, intruded by Archean alkaline intrusions and Paleoproterozoic diabase dikes. The traditional Abitibi greenstone belt stratigraphic model envisages lithostratigraphic units deposited in autochthonous successions, with their current complex map pattern distribution developed through the interplay of multiphase folding and faulting.

At a regional scale, the distribution of supracrustal units in the SAGB is dominated by east-west striking volcanic and sedimentary assemblages. The structural grain is also dominated by east-west trending Archean deformation zones and folds. The regional deformation zones commonly occur at assemblage boundaries and are spatially closely associated with long linear belts representing the sedimentary assemblages. The dominant regional fault in this area is the Destor-Porcupine, referred to as the Destor-Porcupine Fault Zone (DPFZ). The current locations of these regional deformation zones are interpreted to be proximal to the locus of early synvolcanic extensional faults. Belt scale folding and faulting was protracted and occurred in a number of distinct intervals associated at least in the early stages with compressive stresses related to the onset of continental collision between the Abitibi and older sub-provinces to the north. Throughout the history of the Abitibi Sub-province, there was repeated plutonism defined by three broad suites: 1) synvolcanic plutons, 2) syntectonic intrusions that range in age from 2695 Ma to 2680 Ma and include tonalite, granodiorite, syenite, and granite, and 3) post-tectonic granites that range in age from approximately 2665 Ma to 2640 Ma.

The volcanic and sedimentary rocks of the Timmins-Porcupine camp belong to the Deloro, Tisdale, Porcupine, and Timiskaming assemblages.

The Deloro assemblage only occurs to the south of the DPFZ. It is mainly composed of pillowed calc-alkaline mafic volcanic rocks, and constitutes the oldest volcanic rock assemblage in the camp. Intermediate to felsic volcanic and/or volcanoclastic rocks and iron formations are also present in the Deloro assemblage.

A disconformity and/or a reverse fault marks the contact between the volcanic rocks of the Deloro assemblage and those of the overlying Tisdale assemblage. In contrast to the Deloro assemblage, the Tisdale assemblage, in particular the Hersey Lake Formation, is present both to the south and to the north of the DPFZ.

The contact between the volcanic rocks of the Tisdale assemblage and the overlying sedimentary rocks of the Porcupine assemblage has been described as a disconformity. A distinct, discontinuous horizon of carbonaceous argillite (approximately 100 m) separates the Tisdale and Porcupine assemblages in much of the camp. The Porcupine assemblage comprises the following, from base to top: (1) calc-alkaline pyroclastic and volcanoclastic rocks (debris flow, talus breccia) of the Krist Formation, (2) greywackes, siltstone, and mudstone of the Beatty Formation, and (3) greywacke, siltstone, and mudstone of the Hoyle Formation. Locally, minor conglomerate and iron formation are also present.

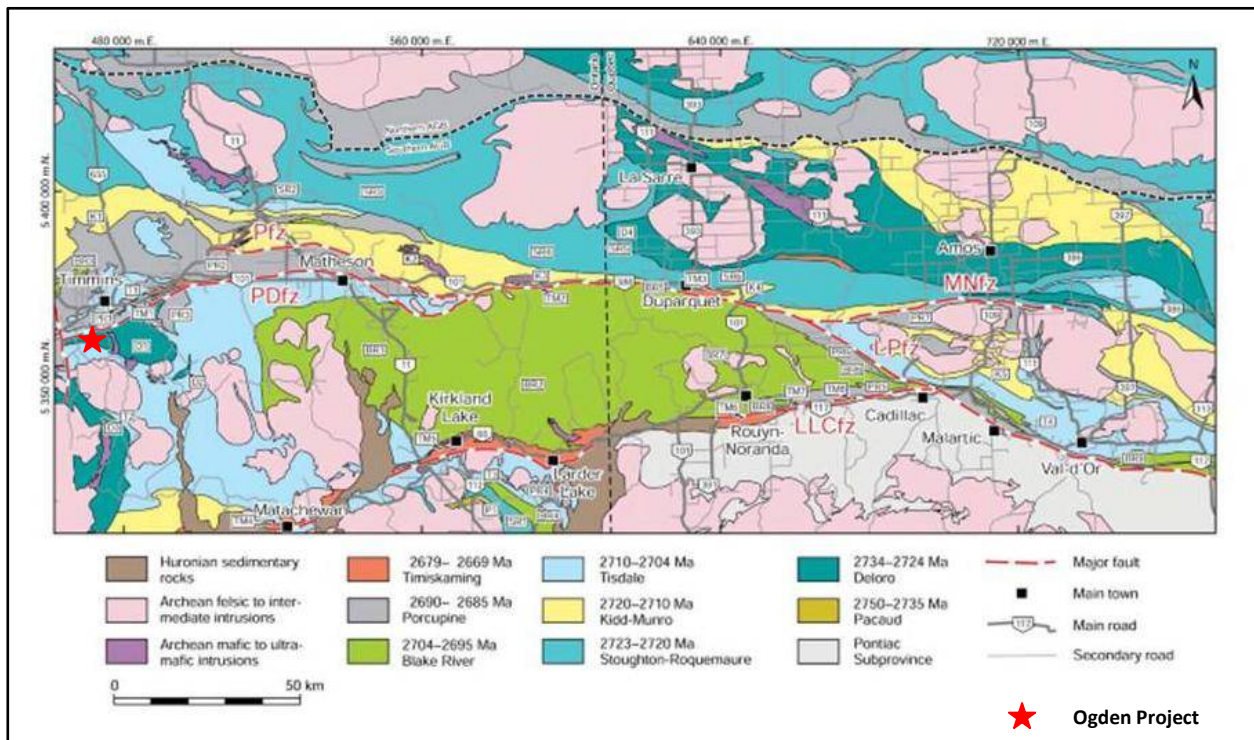


Fig. 3: Abitibi Geological Framework

The sedimentary rocks of the Timiskaming assemblage (approximately 900 m thick) are only distributed along the north side of the DPFZ and unconformably overlie the Porcupine and Tisdale assemblages. The Timiskaming angular unconformity cuts both limbs of the Porcupine syncline.

The structural setting of the Timmins-Porcupine gold camp is complex and comprises several stages of deformation and/or strain increments. The main structural feature of the camp is the east-northeast to east-west trending ductile-brittle DPFZ. It is a poorly exposed, regionally extensive (approximately 550 km), long-lived major fault zone that can be more than 100 m wide. The DPFZ is characterized by steeply dipping penetrative composite foliations (S_3 and S_4). The fault zone is marked by highly strained mafic and ultramafic rocks of the Tisdale and Deloro assemblages, transformed into talc-chlorite schists as well as sedimentary rocks of the Porcupine and Timiskaming assemblages. Quartz \pm carbonate veins and breccias, pervasive iron-carbonate hydrothermal alteration, and local development of fault gouge are also common within or in the vicinity of the fault zone.

Stratigraphic relationships indicate that, overall, the fault is characterized by a south-side-up motion, however, the fault zone has a complex geometry and kinematic history. The dip of the fault zone is steep and varies from north to south along its length with evidence for both vertical and strike-slip displacements. Presence of Porcupine assemblage sedimentary rocks and local volcanic rocks and/or intrusive rocks of the Hersey Lake Formation on both sides of the DPFZ indicate that it is not a terrane-bounding structure.

Most gold deposits in the camp are located in a carbonate alteration corridor that affects, with variable intensity, all rock units up to approximately five kilometres north of the DPFZ. This carbonate alteration footprint is particularly well developed in the flexure area, where the orientation of the DPFZ changes from an approximately east-west to west-southwest trend. The Dome fault is located in that flexure zone, and has been interpreted as a splay of the DPFZ as well as the faulted south margin of the Timiskaming basin.

OGDEN PROJECT GEOLOGY

Lithologies belonging to the Deloro Group are the oldest Keewatin volcanics in the south (Elliott, 1987) and are mostly composed of andesites and rhyolites with associated iron formation and tuff units.

Outcrop is sparse on the Ogden Racetrack Property and as such, little detailed geological information is known from the property. However, previous geological maps (OGS map P2455, P3436, P3595) indicate that tholeiitic metavolcanics with massive flows, tuffs, lapilli tuffs and agglomerate are the dominant rock types in the area. Also present are iron formations (magnetite lenses) (**Fig.4,5**).

Mafic and ultramafic intrusives occur in the southeastern part of the property. Serpentinized diorites and pyroxenites are related to the large sill-like intrusions of the dunite and peridotite on the east side (Elliott, 1987). Syenite intrusions were also noted (Hatch 1937) near the southwestern edge of the property. The western portion of the property was mapped as a porphyritic granodiorite.

Diabase dikes are also prevalent on the property cutting across the southwestern region of the property. Elliot noted that the dike was mapped at 198 m in thickness with a strike of N60°E.

It was also noted by Elliot that the trend of the volcanics and iron formations was measured at N15°W with a steep dip to the southwest. Three main faults pass through the property in a north-south trend with the most prevalent being the most westerly “Meadow Lake Fault”.

Geological mapping, stripping, and trenching (Robinson 2004) identified a few areas of outcrop on the Racetrack Property, mostly in the western portion. Most outcrops were identified as mafic volcanics cut by numerous felsic dikes and quartz veins. Robinson also noted that strong alteration assemblages were lacking in the outcrop exposures. However, large boulders of intense iron carbonate alteration with quartz veins were located, but are thought to be transported from the N-NW-W during glaciation.

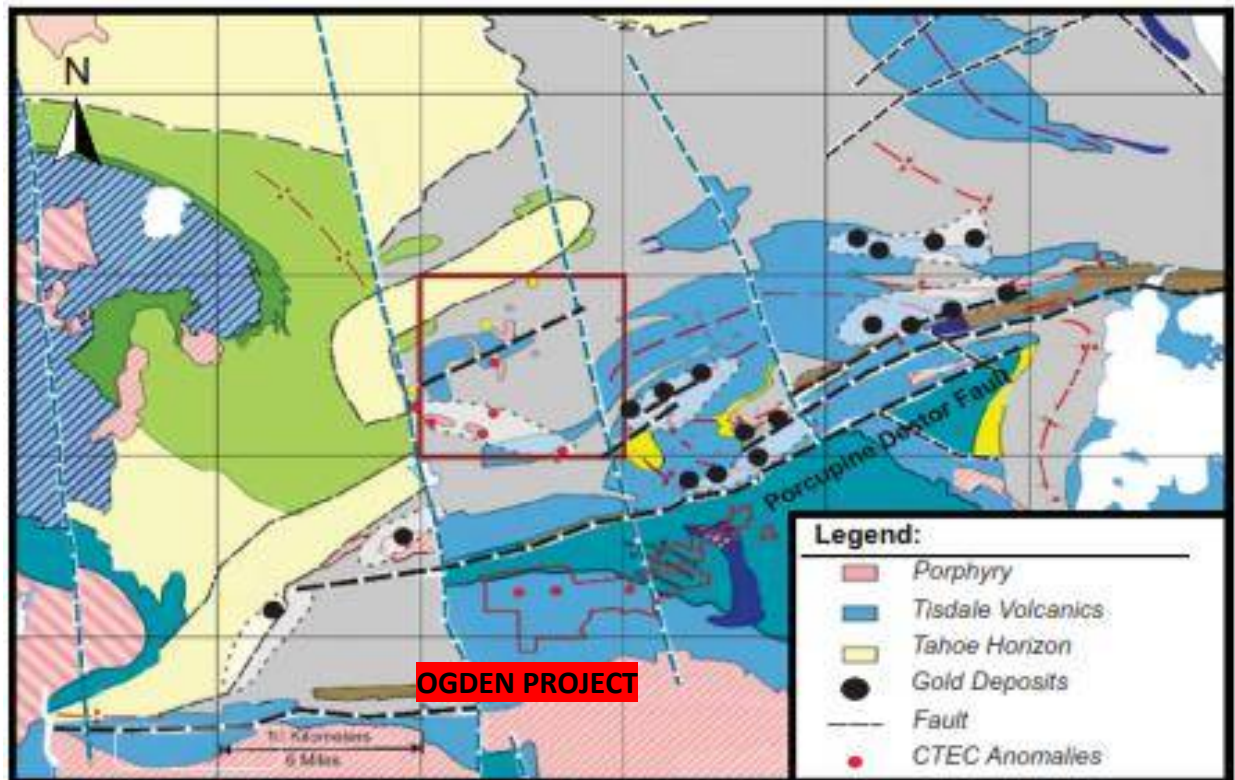


Fig. 4: Ogden Project Location and Camp Geology

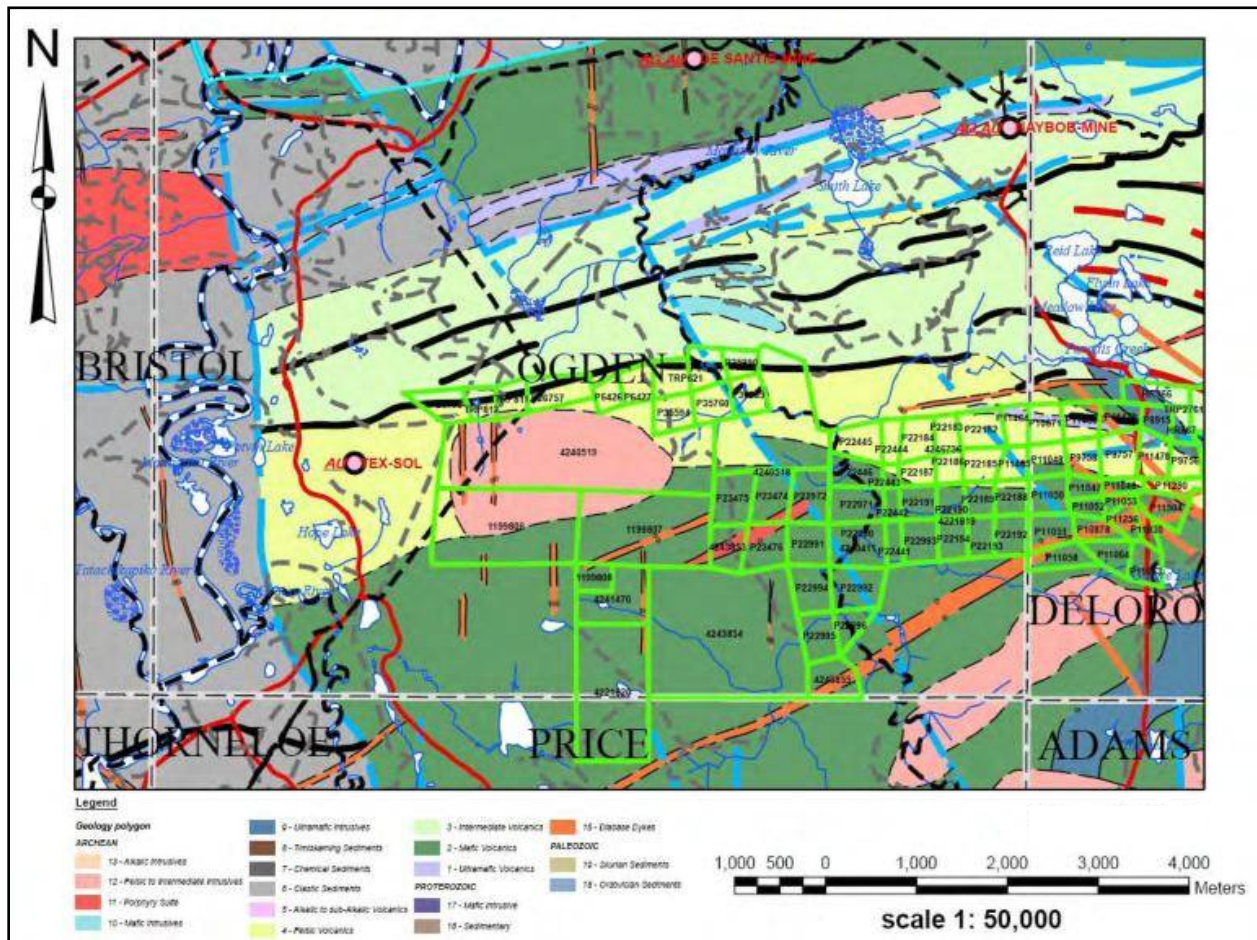


Fig. 5: Ogden Property with Geology Compilation

GOLD MINERALIZATION

Quartz-carbonate vein deposits are typically associated with deformed greenstone belts characterized by variolitic tholeiitic basalts and ultramafic flows in turn often intruded by intermediate to felsic porphyries along major crustal-scale fault zones.

Most gold deposits in the Timmins camp are located in a carbonate alteration corridor that affects, with various intensity, all rock units up to approximately five kilometres north of the DPFZ. This carbonate alteration footprint is particularly well developed in the flexure area, where the orientation of the DPFZ changes from an approximately east-west to west-southwest trend. The Dome fault (Ferguson et al., 1968; Holmes, 1968; Rogers, 1982) is located in that flexure zone, and has been interpreted as a splay of the DPFZ (Davies, 1977; Proudlove et al., 1989; Brisbin, 1997) as well as the faulted south margin of the Timiskaming basin (Bateman et al., 2008).

The Dome fault consists of a brittle-ductile east-northeast trending and south dipping reverse fault (D_3 or younger) that juxtaposes the "South Greenstone" Tisdale basalt of the Central Formation and ultramafic rocks of the Hersey Lake Formation in the hanging wall, onto younger folded (F_3 syncline) greywacke and mudstone of the Timiskaming assemblage in the footwall (Holmes, 1968; Hodgson,

1983; Brisbin, 1997; Pressacco et al., 1999). The 2690 ± 2 Ma Paymaster and 2688 ± 2 Ma Preston porphyries (Marmont and Corfu, 1989; Gray and Hutchinson, 2001) are locally highly strained and are located in the immediate footwall (north) and hanging wall (south) of the fault zone (Rogers, 1982; Pressacco et al., 1999). The Dome fault was well exposed in the Dome open pit and underground, where it coincides with a several metre wide hydrothermal alteration corridor that hosts the high-grade quartz-fuchsite vein. The latter is located near the contact between the Tisdale volcanic rocks and the Preston porphyry or the Timiskaming sedimentary rocks. This alteration corridor consists of strongly iron-carbonate, quartz, sericite, and fuchsite altered and foliated mafic and ultramafic rocks and quartz-feldspar porphyry (e.g., Holmes, 1948; Rogers, 1982; Hodgson, 1983; Moritz and Crocket, 1990, 1991).

The quartz-carbonate vein gold deposits range from simple to complex networks of laminated quartz-carbonate fault-fill veins within moderately to steeply dipping brittle to ductile shear/ fault zones with locally developed shallow dipping extensional veins and hydrothermal breccias. Extensive ankerite alteration is common and frequently accompanied by sericite and fuchsite. Gold is generally concentrated in the quartz-carbonate vein network but does occur in significant amounts within iron-rich sulphidized wall rock/vein selvages or within silicified and arsenopyrite-rich replacement zones.

The Ogden Project property covers structurally complex volcanic and intrusive stratigraphy south of the Destor-Porcupine Fault Zone with known historical gold mineralization, and has the potential to host Archean epigenetic gold deposits.

BASE METAL MINERALIZATION

Base metal mineralization expected in this area is primarily of the Volcanogenic Massive Sulphide (VMS) type given the known geology of the property. They are commonly found in Precambrian volcano-sedimentary greenstone belts with extensional arc environments such as rifts or calderas.

VMS deposits are synvolcanic accumulations of metal enriched sulphide minerals found in geological domains characterized by submarine volcanic rocks, commonly tholeiitic to transitional and bimodal. These deposits are often spatially associated with synvolcanic faults, rhyolite domes or paleo-topographic depressions, caldera rims, or subvolcanic intrusions. The sulphides represent exhalative deposits in favourable settings that enable the focused discharge of hot, metal-rich hydrothermal fluids from sub-seafloor fluid convection systems, driven by large, 15 km to 25 km long high level subvolcanic intrusions.

Idealized, un-deformed and un-metamorphosed Archean VMS deposit typically consists of a concordant lens of massive sulphides, typically containing in excess of 60% pyrite-pyrrhotite-sphalerite-chalcopyrite-(magnetite). These cap a discordant stockwork or stringer zone of vein-type sulphide mineralization with pyrite-pyrrhotite-chalcopyrite-(magnetite) generally contained in a pipe of hydrothermally altered rock. A deposit may consist of several individual massive sulphide lenses and their underlying stockwork zones. Stockwork zones are thought to be near-surface channel ways of submarine hydrothermal systems with massive sulphide lenses representing the accumulation of sulphides precipitated from the hydrothermal solutions on the sea floor above and around the discharge vent.

Deformation, faulting and other structural complexities frequently result in discordant stockwork vein systems or pipes. The associated pipes are typically comprised of inner chloritized cores surrounded by an outer zone of sericitization and occur centrally to more extensive and discordant alteration zones. Alteration zones and pipe systems may extend vertically below a deposit for several hundred metres or may continue above the deposit for tens to hundreds of metres as a discordant alteration zone. Proximal alteration zone and attendant stockwork/pipe vein mineralization have been known to connect in a series of stacked massive sulphide lenses, evidence for synchronous and/or sequential phases of ore formation during successive breaks in volcanic activity.

The Ogden Target Area covers structurally complex volcanic stratigraphy tested by the Fugro airborne EM survey of 2011 with multiple conductors identified. Previous MMI sampling was completed over two previously defined airborne conductors now detailed as CT-OG-01, CT-OG-2 and CT-OG-04. Numerous anomalous base metal responses may potentially be indicative of VMS type mineralization.

OGDEN PROJECT SELECTED HISTORY

The exploration and development history of the greater Ogden Project has been sporadic and not as intense as the northern and western portion of Ogden Township and other areas of the Timmins gold camp. The Porcupine District Resident Geologist Office assessment files in Timmins, Ontario, contain most of the exploration files associated with this property.

The earliest recorded work on the Racetrack Property is from 1955 when three holes were drilled on the northern patent# TRP-621 by the owner (E.O. Wise). Results showed trace gold and minor copper.

The first apparent mapping of the property was conducted in 1957 by Ferguson & Rogers (Ontario Dept. of Mines - map M1076).

The next mapping project in Ogden Township was completed in 1967 by H.D. Carlson (Map P341).

In December 1979 Amax Minerals Exploration undertook a South Timmins Area multi township Aerodat A.E.M survey that covered much of Odgen and Deloro Townships. Here survey lines were flown approximately N20°W and spaced at 200m with an average altitude of 70m. Several properties were staked on the basis of the results.

In late 1980 Amax drilled 3 holes to test H.E.M conductors in Ogden Twp., One drill hole (1043-03-01) is collared immediately north of the eastern CTEC patented ground in Ogden. This 165m drill hole intersected variably silicified sediments, iron formation and minor andesite. No assay data is on record.

Geological mapping was undertaken by Amax in 1981 and covered the western portion of the current property.

The property appeared to be idle again until 1996 due to the lack of outcrop and accessibility to the central portions of the property when it was obtained by Noront Resources Ltd. Line cutting was conducted on the property to establish a north-south orientated grid on the western portion of the claim group. This was immediately followed up with a ground magnetometer survey by Quantec Consulting. A more detailed magnetometer and VLF geophysical survey was completed on the property in the spring of 1997 by C.D. Huston. This work resulted in insufficient data to warrant further exploration due to the thick overburden cover (Huston, 1997).

Noront Resources looked to option the property with Haddington Resources Ltd. in 1998 (Brown, 1998). Consequently, Haddington established another north-south oriented grid along the eastern portion of the property, including the area to the east and north of the claim boundary. They conducted a ground magnetometer and VLF geophysical survey over the area with minimal results, again due to thick overburden cover (Brown, 1998). A compilation of geological data by Noront in 1998 inferred that the Racetrack claim group was underlain by granites and recommended further work outside of the present claim block perimeter (Paltser, 1998).

More recent mapping was completed in 2001 by Vaillancourt et al (Map P3436).

An airborne survey was flown in 2003 by Terraquest Ltd. for the "Porcupine Joint Venture" (Placer Dome and Kinross Gold) group (Terraquest, 2003). The survey resulted in the production of a total magnetic field maps. Calculated vertical mag gradient maps with measured longitudinal and transverse mag gradients were also created from this survey (Terraquest, 2003).

Grant Forest Products Corporation acquired the Racetrack Property in 2003. Doug Robinson Consulting was contracted to conduct another ground magnetic survey over the western portion of the property from grid lines 0+00E to 8+00E. Specific areas of outcrop in the southwestern area of the claims were also stripped, trenched and mapped for attitude determinations during this program (Robinson, 2004). Sampling results of the trenching were not stated in the report.

The above mentioned work was followed up with a MMI geochemical survey by in the summer of 2005. The grid was extended from 13+00E to 21+00E at 100m centres towards the east of the older previously established grid. The new grid area was surveyed with ground magnetometer program. The areas of high magnetic values were then followed up with a localized MMI geochemical survey. A more detailed MMI survey was recommended for future exploration work (Robinson, 2005).

The most recent mapping program was completed in 2005 by R. Bateman (Map P3555).

Vision Exploration of Timmins conducted an IP geophysical survey on the main part of the gridded property in 2006. A single area of interest was located from the survey in the central portion of claim 1199807. The author recommended compiling all previous data in the area to identify drill targets (Anderson, 2006).

In 2009 the property was staked by Grant Capital Corporation who then optioned it to Electra Gold Ltd., who in turn, optioned the property to Claim Post Resources Inc. (operator) in September 2010 under terms that would allow Claimpost to acquire 100% ownership after 4 years.

During the late summer of 2010, Claim Post contracted Exsics Exploration Limited (Exsics) to establish pace and compass, flagged grid lines over a number of claim blocks and along certain roads and complete MMI soil sampling on these newly created grids. Approximately 182 km of lines were established, and samples were collected on 25 m spacing with a stainless steel auger at a target depth of approximately 25-30 cm. Select survey results were subsequently filed in 2011 for assessment including work on former claims. In December 2010, Nadeau (2011) was engaged by Claim Post to review and interpret the results of the soil samples. A total of 2,975 samples were analyzed for a suite of 47 trace elements and six major elements by ICP-MS. Anomalous areas were recommended for additional sampling to confirm the results. It was noted that some anomalies may have resulted from historical contamination.

Claimpost in 2011 undertook an airborne geophysical survey over the entire claim block by Fugro Airborne Surveys. Modeling of the airborne survey resulted in the identification of several conductors including a deep anomaly directly east of the Mountjoy River.

2011 Claimpost drilling targeted the interpreted Fugro 2011 airborne deep EM anomaly in the area of grid CT-OG-04. Hole CPRT11-01 tested this anomaly from the east side of the Mountjoy River and was drilled to a depth of 531.0 meters before being abandoned due to badly faulted ground. Depth of overburden was 66.00 meters. A second attempt was undertaken with hole CPRT11-02 northwest of hole CPRT11-01 which also ended in poor ground conditions at 539 meters. The depth of overburden was 93.00 meters. A final attempt was with hole CPRT11-03, collared 200 meters ahead of a near surface fault zone encountered in CPRT11-02 and drilled to a depth of 590 meters before being abandoned due to poor ground conditions. Overburden depth was 102.00 meters.

In 2018, CTEC completed MMI sampling in Ogden Township (660 samples). The 2018 sampling detailed certain areas of the previous reconnaissance style grid and the results were re-interpreted. These detailed areas have been identified as CT-OG-1, CT-OG-02, and CT-OG-04.

GEOCHEMICAL SOIL SAMPLING (MMI) PROGRAM

MMI is the acronym for Mobile Metal Ion and was developed to recover interstitial, weakly and loosely attached metals on the surface of soil particles released by alteration from buried and blind ore bodies. Samples are subjected to MMI leach solutions which are a weak basic digest solution designed to extract a selected suite of metals to target gold mineralization. It is still debated but a range of processes are believed to be involved including capillary migration, gas diffusion, evaporation, and the presence of an electrochemical cell. Because the leach solution extracts only a few % of a given elements concentration in soil samples, it is analyzed using very sensitive ICP-MS equipment able to detect metals at the ppb level. Case studies of MMI applied to gold exploration have been made in Australia, Europe, and South and North America and are available from the SGS website.

The process of elemental dispersion through thick overburden and/or barren rocks and formation of anomalous concentrations of these elements in soils, does not occur randomly and is generally related to the alteration of a significant concentration of sulfides-rich or mineralized rocks/structures as well as the effect of the electrochemical cell processes. In areas devoid of any types of mineralization and alteration processes these elements are generally at background levels only.

The distribution variations and patterns of the elements extracted and their spatial association with geophysical features, underlying geology, and comparisons to element responses from case studies over known gold mineralization, give an initial evaluation. Positive soil survey results could be considered sufficient to confirm the gold potential of the project area. The chemical signature of possible gold mineralization and related elements is variable and a function of mineralization style, depth, orientation, size, and sample density. Negative results could suggest that no or only minimal gold mineralization is present rather than reflecting failure of the method.

Anomalous Au values may still be considered as the best indicator of gold mineralization and their presence generally justifies follow-up work.

CTEC SURVEY

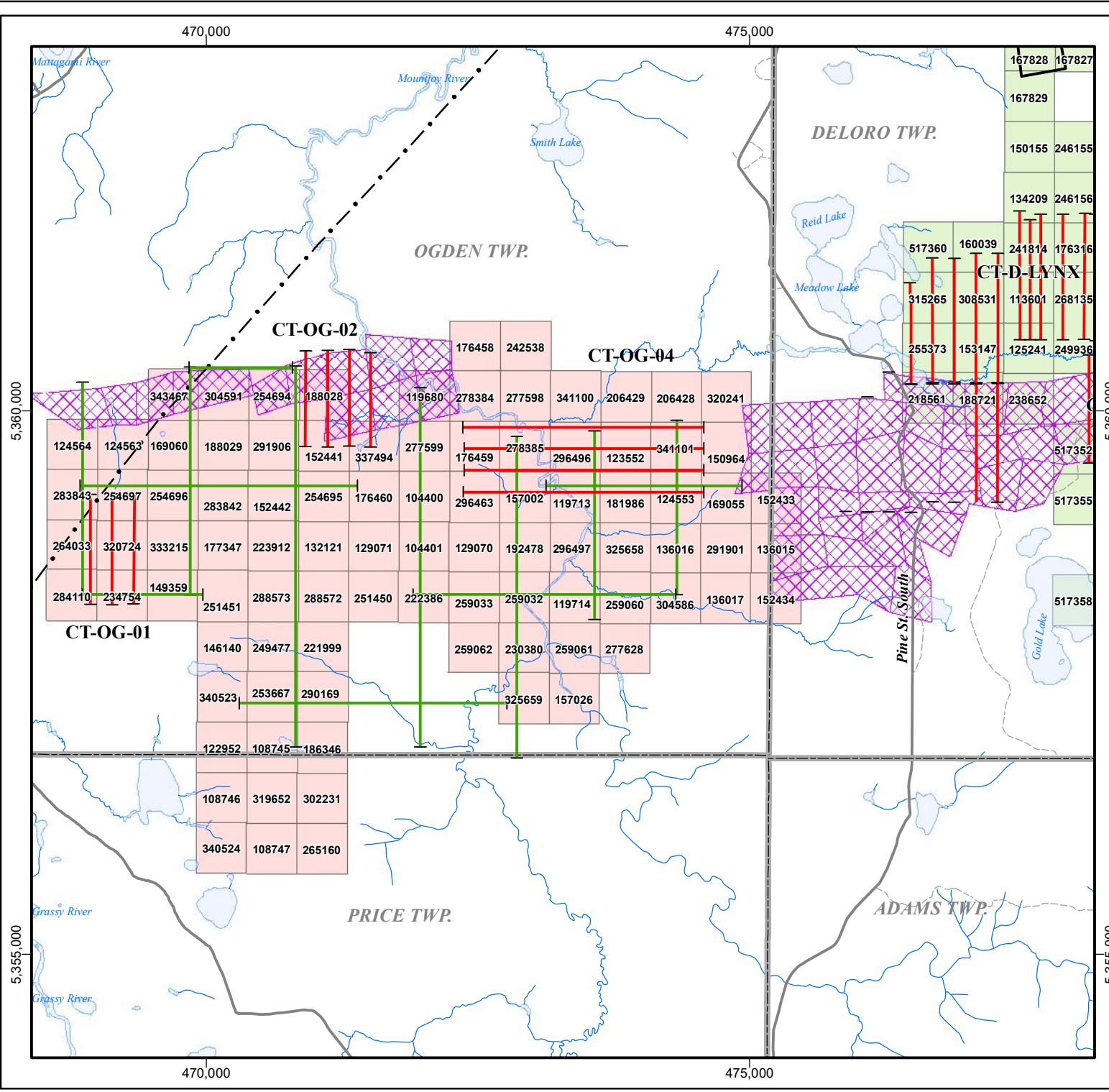
Follow-up MMI soil sampling was part of a continuing project wide exploration program building on both historical and the previous work completed by Claim Post Resources pre Central Timmins Exploration Corporation's acquisition of the project. In Ogden Township, an area known for its lack of outcrop and locally deep overburden, MMI survey profiles were laid out in 2010, in a reconnaissance style grid with both NS and EW profiles generally 1,000m apart in an attempt to help identify local geology, including the areas with no historical (Robinson 2005) sampling, and better focus follow-up work. The 2005 MMI program by a previous operator covered approximately 50% of the current CTEC mining lands package in Ogden Township.

Sampling was contracted to Exsics Exploration Ltd. of Timmins with analytical work completed by SGS Mineral Services, Toronto, Ontario. Plotting and data handling were provided by BCS Geological Services, Oakville, Ontario. The ground survey methodology has remained constant over the course of the MMI surveys. Survey profiles and sample sites are GPS controlled and coordinates recorded in NAD 83 UTM Zone 17. Typically a 2 person crew uses stainless steel auger, plastic snap sample bag and waterproof markers for labeling. Sample sites are GPS controlled and are spaced at 25m on predetermined profile spacing. Sample depth is generally 30cm and depending on site conditions may vary. Sample, soil, and site characteristics are recorded. Bagged samples are then shipped to the appropriate laboratory for analyses. It should be noted that in the time period from the earlier sampling and analyses in 2010, and

Fig. 6

OGDEN & DELORO TWPS.

**CTEC CLAIM CONFIGURATION
with
MMI GRIDLINES**



UTM Zone 17, NAD83

1:50,000

0 500 1,000



metres

LEGEND

Drainage



-  Lake
-  Creek

Road

-  Primary
-  Secondary

-  Power Line

CTEC Claim Assessment Block

-  Other CTEC Claim
-  Assessment Block

-  Legacy Claim

-  CTEC Patents

MMI Grid Line (by year)

-  2010, 2011
-  2018

December 3, 2018



Additional data plotting was carried out using select element *response ratios* (RR) based on a simple sample split between clastic (clay to mixed +/-gravel components) and organic (humus and humus clastic mixes) soils in an attempt to normalize some of the soil effects. The RR is calculated on an element by element basis, by dividing the sample's analytical value by the lower 25 percentile average of the group (population) analytical data. The calculated RRs per element of the 2 groups were combined, plotted, and compared to previous and current raw data anomalies. The calculated percentile averages used are labeled as "south" in **Table 1**.

Gold generally showed the least variability relative to soil type and thus remains the best indicator for gold mineralization. Base metal values and Ag are much more variable. Potential contamination from mining, light industrial, farming, and residential activities may be locally significant.

	25th percentile average								
	Ag	As	Au	Cd	Co	Cu	Ni	Pb	Zn
All Data	0.4	5	0.05	4	17	59	45	61	63
Clastics All	1.6	5	0.05	4	19	135	63	65	50
Organics All	0.3	5	0.05	8	14	26	33	61	155
No Data All	0.5	5	0.05	4	14	36	31	46	77
Clastics North	2.9	5	0.05	3	23	225	83	62	42
Organics North	0.5	5	0.05	12	19	72	56	80	132
No Data North	0.5	5	0.08	9	26	126	52	106	197
Clastics South*	0.6	5	0.11	5	15	83	45	96	91
Organics South*	0.3	5	0.05	5	12	13	26	48	198
No Data South*	0.5	5	0.05	4	14	36	31	46	76

*Calculations for Ogden data

Table 1: Base values for calculating MMI Response Ratios (RR)

The CTEC 2018 MMI sampling program generated 660 samples to better detail target areas identified as CT-OG-01, CT-OG-02, and CT-OG-04 with 132, 156, and 372 MMI samples respectively. **(Fig.6)**

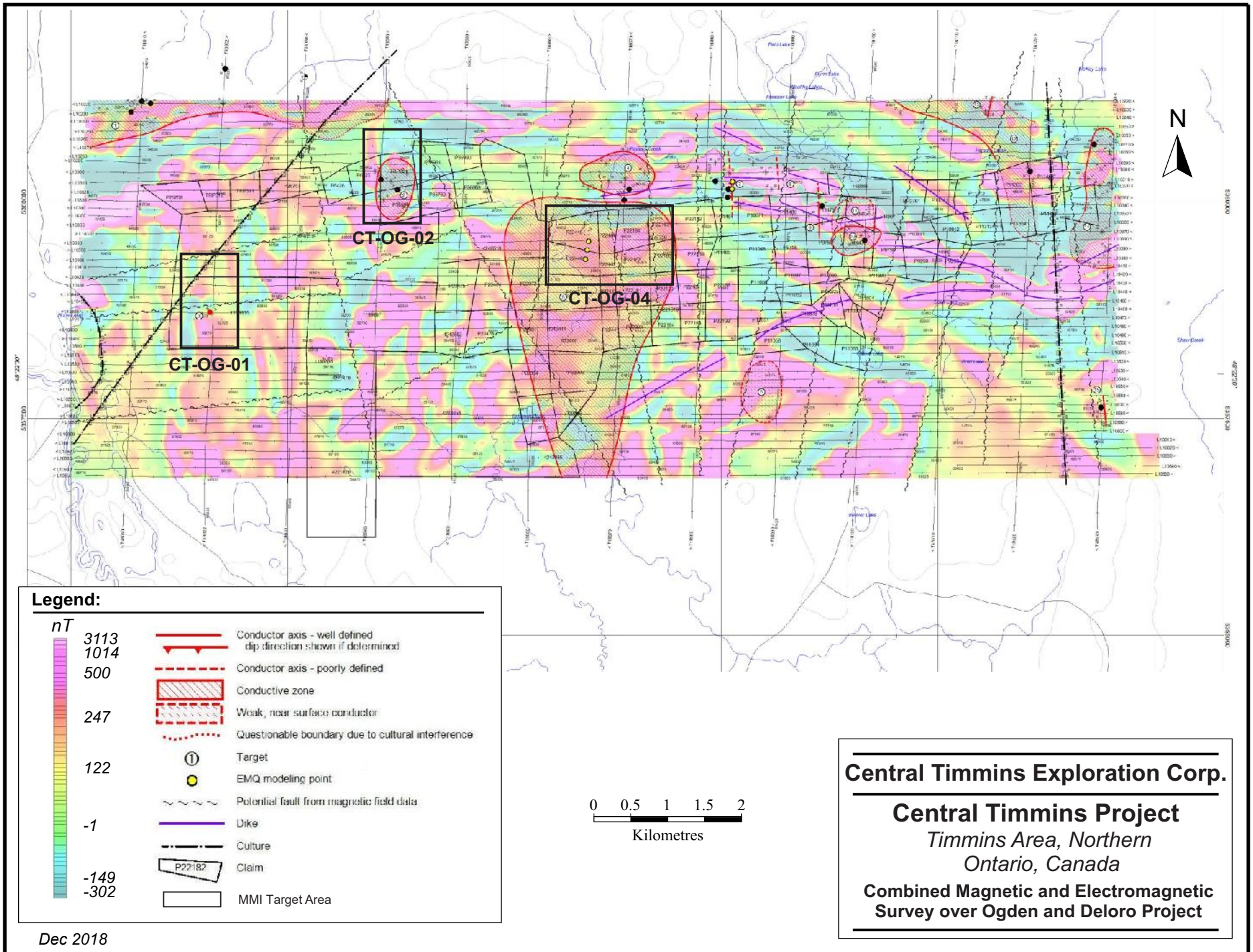
The additional MMI sampling covers previously defined airborne conductors in Ogden Township to confirm, delimit, and characterize general metal tenors of these drill targets. **(Fig.7)**

CT-OG-01

This detail grid is located in the western end of the Ogden claim group. Aggregate operations are found approximately 150m to the east while timber harvesting has taken place to the east and south.

Three N-S profiles, each 1,000m in length and spaced 100m apart, are flanked by the western portions of TL 400 S and BL 600 N, and the southern portion of L 1100 W, the most westerly grid line. Samples were taken on a 50m spacing for a total of 132 samples including 9 duplicates.

Fig. 7



The 2010 results indicated that in the western part of the Ogden grid, Au and Ag values were found to be locally anomalous in soils overlying the mafic volcanics with an associated poorly defined airborne conductor. It was recommended that the grid in this area should be extended E-W between lines 1100W and 900E, particularly along the contact of the mafic volcanic rocks and the porphyritic intrusion with an associated, but poorly defined airborne conductor. The sampling should cover the contact area over a distance of 1-2 km on the premise that Au may have been remobilized both along the contact, and in faults associated with the emplacement of the intrusion.

2018 results indicate the southwest and the north west quadrants of the grid are anomalous. Au values remain weakly anomalous, supported by Ag, Co, Cu, Pb, and Zn. As also shows weak response here but is most anomalous along grid line 2+00E, again in the south and is aligned with Pb. Much of the southern portion of the grid is a broad enhanced metal anomaly that is not delimited to the east, west and south and reflect overlapping lithological response and contacts as previously postulated. Detailed IP, potentially aligned NE, may source mineralization and characterize the airborne response.

CT-OG-02

This detail grid is located in the north-central area of the Ogden claim group. Most of the grid covers a clear cut area (recent sat image) with access roads. The Mountjoy River is immediately to the northeast.

Four N-S profiles, each 875m in length and 100m apart, were added to better delineate a previous MMI anomaly on the most northerly portion of N-S L 1900 E near TL 1600 N and test a previously defined (2011) airborne EM conductor for its metal tenor, all in preparation for a potential future pulse EM ground survey and drilling. Samples were taken on a 50m spacing for a total of 156 samples including 12 duplicates.

Responses for Ag, As, Au, combined with local Cu and Pb (local peak) are concentrated in NE quadrant. Arsenic displays an unusual wide distribution in the northern part of the grid with a local peak feature in the SE associated with Zn. Co and Ni are also more responsive in portions of the NE quadrant. This area shows overlapping metal anomalies that may reflect lithological changes with enhanced mineralization potential. IP follow-up is recommended. Zn and As(?) in southeast may be linked to a southwesterly trend crossing L 1900E but would need a southern grid extension for confirmation.

CT-OG-04

This detail grid is located in the north-eastern area of the Ogden claim group. . The upper reaches of the Mountjoy River meander through the grid northwesterly in the western portion. The area appears not to have been impacted directly by any industrial activity with some clear cutting to the southeast.

Four E-W profiles, each 2,200m in length and 200m apart with samples on a 50m spacing, were completed for a total of 372 samples including 15 duplicates. This sampling was not only to better delineate a 2010 base metal MMI anomaly in the eastern third of the current grid, but also to potentially map out lithologies and their metal tenor in the area after the 2011 CTEC drilling here of an airborne EM conductor.

Early MMI returned anomalous responses along the northern portions of L 4400 E and L 3650 E, and the associated segment of BL 600 N. Anomalous MMI values for Zn, Pb, Cd and Cu suggested base metal (VMS?) potential. The grid is generally located over felsic to intermediate volcanics/intrusions interpreted from Mag values and outcrops mapped by the OGS (P3595). The sampling also tested further along the more regional mafic/felsic volcanic contact trending westerly.

The NE corner of the grid returned an all metal clustering of anomalous values confirming the earlier survey results. Elsewhere, Zn, Cd and Cu, and to a lesser extent Ni, show particular consistency and broad distribution in the SE quadrant of the grid, with associated peaky and less dispersed Pb. Ag and As showed clustering with As and Co being very local.

A specific Cu anomaly appears to occur trending NS centrally across all 5 E-W profiles and then easterly along the lines in the southeastern part of the grid. This is mimicked by less elevated Ni and other metals. The MMI anomaly appears to continue to the east with less of an eastern cutoff (Cd) and addition of Zn. As, although relatively flat shows a distinct N-S boundary in the centre of the grid with a higher tenor to the west. This area is just east of the Mountjoy River and was drilled by CTEC in 2011 (**Fig.8**) to test a deep Fugro EM anomaly.

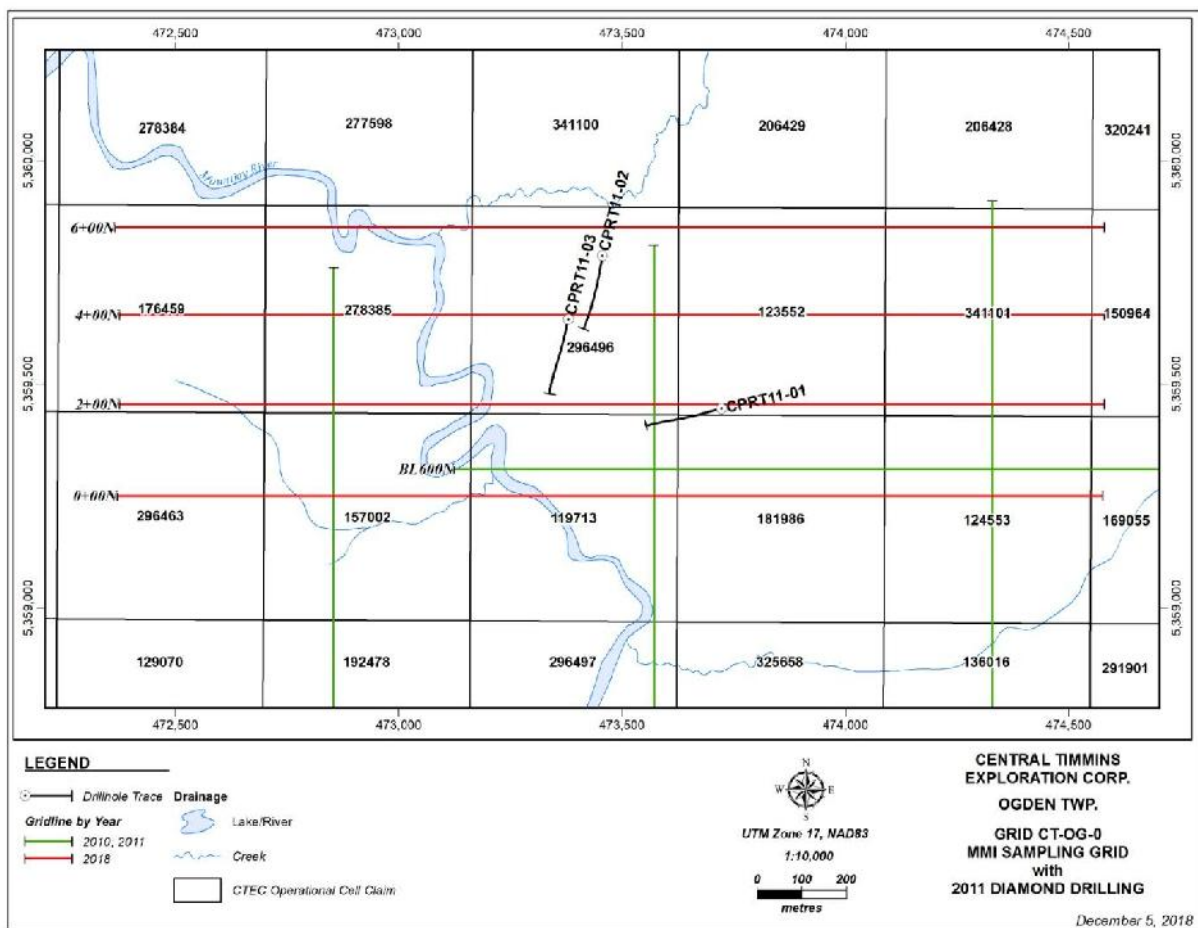


Fig. 8: CT-OG-04 Drill Hole Locations

Two drill holes are in this Cu dominant MMI anomaly, the third is westerly and may not have tested the anomaly. Drilling (1,662m) did not reach the EM target due to technical difficulties. Drill results suggested the target could carry some degree of mineralization due elevated nickel, copper and chromium values primarily in lithological contact areas. Syenite in 2 of the 3 drill holes was interpreted to be relatively flat lying with a WSW plunge. It was also inferred that the syenite unit may increase westerly and truncated to the east by the dominant north-southerly faulting. Host rocks surrounding the syenite are dominantly diabase and chlorite rich andesite, with localized shears. Less continuous MMI results to the west are not easily correlated to the inferred geology but may reflect additional mineralization. Some generational differences between NS and EW sampling are evident. Drilling may not have conclusively tested the Cu trend nor the continuation in the southeastern grid. Additional modelling work is needed.

The drill program has reaffirmed that major faults are NNW. It is not known if this fault trend consistently dips steeply west. Minor flat lying sheared splays perpendicular to the main fault direction were also intersected. More linear and broad stepped elemental MMI responses (Cu? As?) may also be reflected by these structures marking lithological changes.

Survey results on the 3 grids helped refine and expand the previously generated anomalies, in particular those potentially reflecting base metal mineralization with some well defined anomaly limits. The MMI generated anomalies and associated geophysical responses continue to be of interest and additional follow-up by increasing the MMI soil sampling densities is expected to better define potential trends and areal anomaly limits.

RECOMMENDATIONS

Additional systematic coverage of the selected anomalies is warranted given the positive 2010 to 2018 MMI indications to date. Higher density sampling is recommended both in line with current profiles and orthogonal to them. Up to 500 samples may be required to provide adequate and fill-in coverage depending on the grid sizes and sampling frequency selected. Local profiles spacing should be kept at 100m and orthogonal layouts considered. Sample spacing of 25m may be needed locally for vein type (gold) targets giving approximately 10-12 line km. Broader spacing is considered suitable for more stratigraphically constrained base metal (VMS) mineralization and could reduce the number of samples required.

In heavy organic soils sample depth should be at 10-25cm with additional samples taken from the first 10-15cm of the underlying clay soil. Field duplicates are recommended every 15 to 20 samples. Base costs are expected to closely reflect historical costs with evaluation overheads for an estimate of \$100/sample. Budget requirements may approach \$50,000, again depending on density.

Additional interpretation of selected metals that have been used in exploration for bedrock mapping, in conjunction with focused geophysical ground surveying including IP and EM, are recommended in order to generate well defined drill targets. Geophysical budgeting for Pulse EM and IP is estimated at \$75,000.

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Appendix A

MMI Background Information



MOBILE METAL ION
(MMI™)
GEOCHEMISTRY

HIGH RESOLUTION SOIL GEOCHEMISTRY

SGS



MINING

MOBILE METAL IONS (MMI)

Mobile Metal Ion (MMI) geochemistry is a proven advanced geochemical exploration technique known to find mineral deposits.

It is especially well suited for deeply buried mineral deposits. MMI™ measures metal ions that travel upward from mineralization to unconsolidated surface materials such as soil, till, sand and so on. These mobile metal ions are released from mineralized material and travel upward toward the surface. Using careful soil sampling strategies, sophisticated chemical ligands and ultra sensitive instrumentation, SGS is able to measure these ions. After interpretation, MMI data can indicate anomalous areas.

SGS is the sole provider of MMI technology. We have over 15 years of experience providing this technology, and as a result of this long-term commitment, we are the market leaders in ion extraction technology and geochemical exploration.

There are many benefits to using MMI technology for soil geochemistry:

- Few false anomalies
- Focused, sharp anomalies
- Excellent repeatability
- Definition of metal zones and associations
- Detection of deeply buried mineralization
- Low background values (low noise)
- Low limits of detection

MMI technology is an innovative analytical process that uses a unique approach to the analysis of metals in soils and related 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 metal ions that were loosely bound to soil particles by weak atomic forces in aqueous solution. This 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™). This allows us to report very low detection limits.

MMI technology uses proprietary extractants. MMI-M is a new, single multi-element leach that now provides an option to measure the concentration of a broad selection of mobile elements. With MMI-M, you can create your own individual multi-element packages, using any or all commodity elements, diamond host rock elements, lithological elements or pathfinder elements. SGS also offers enhanced detection limits with the MMI-ME package.

Partner with SGS and use MMI technology for exploration success and more precise drill hole targeting.

MMI™ GEOCHEMISTRY – OVERVIEW

MOBILE METAL ION GEOCHEMISTRY

The Mobile Metal Ion (MMI™) Process is a totally integrated geochemical approach to precious metal, base metal and kimberlite exploration. It uses a weak partial extraction and ICP-MS ultra trace element analysis to improve the conventional geochemical response over buried ore deposits.

MMI™ anomalies are sharply bounded and, in most cases, directly overlie and define the surface projection of buried primary mineralized zones.

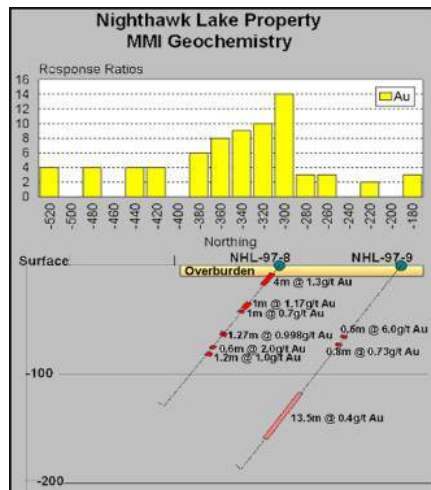
The effectiveness of the MMI Process™ has been documented in over 100 case histories on six continents and it has been responsible for numerous commercial successes.

MMI PROCESS™

The MMI Process™ consists of:

- A simple sample collection procedure in which approximately 200 to 250 grams of sample is collected at a continuous interval of 10 to 25 cm below the living organics layer regardless of which horizon this depth corresponds to.
- Samples are not otherwise prepared or dried.
- A weak extraction using a multi-component solution to release the mobile ions.
- A high sensitivity ICP-MS analysis which provides part per billion range results.

The MMI Process™ was developed by Wamtech Pty. Ltd in Australia and is performed by exclusive license at SGS accredited full service laboratory facilities in Lakefield, Ontario and Vancouver, British Columbia, Canada.



CONTACT INFORMATION

Email us at minerals@sgs.com
www.sgs.com/mining

MMI™ ORIENTATION SURVEYS

MMI™ INTRODUCTION

Mobile Metal Ion (MMI™) technology is a proprietary SGS geochemical survey technique used to accurately locate deep ore deposits. During the MMI™ procedure, we use sophisticated chemical processes and instrumentation to measure mobile metal ions (charged metal atoms and molecules) that have migrated into surface soils from mineralization below. MMI™ geochemistry strips mobile metal ions from the exterior of soil particles using a partial dissolution without digesting the soil itself, to measure metal ion concentrations in the parts per billion range.

By measuring only mobile metal ions in surface soils, SGS MMI™ surveys produces sharp responses (anomalies) over buried ore deposits. Significant reductions in your exploration costs may be realized as traditional exploration techniques such as geophysics and drilling can be focused into smaller, prioritized exploration zones, saving you both time and money. Trust SGS, the global technical leader and proprietary owner of MMI™ for your survey needs.

MMI™ ORIENTATION SURVEYS

Before a full MMI™ exploration project is undertaken, it is important that you test the technique using a properly designed Orientation Survey at a small scale over a known area of mineralization. This will ensure MMI™ applicability, and will help determine optimum survey parameters. MMI™ Orientation Surveys are valuable in all geologic settings but are strongly recommended in areas of highly transported and/or depositional soils.

An MMI™ Orientation Survey consists of a single transect over a known target, with dense site spacing and multiple samples collected from each sample pit.

The primary reasons for performing this survey are to:

- Determine a site spacing that is sufficiently dense to identify mineralization.
- Identify which elements fingerprint the mineralized zone.
- Establish the appropriate depth below live organic material at which to collect samples.
- Determine whether to do a complete MMI™ survey.
- Establish the appropriate elements to use as a reduced MMI™-M package, or whether to do a complete package.

MMI™ ORIENTATION SURVEY DESIGN

The MMI™ Orientation Survey, consisting of a single transect, must be done over a known exploration target such as an identified mineralized zone, structure, or geophysical anomaly. After this consideration is met, the following guidelines should be followed to ensure the proper design of your Orientation Survey:

- The survey spacing should be 15 – 25m generally and then reduced below 15m when directly over the mineralization target.
- Samples should be taken over the target's center and beyond to include the hanging footwalls or edges of the mineralized zone.
- Sampling must be extended at least 150m beyond the targets edges to capture the background levels of mobile metal ions.
- 25 sampling sites are required (at least 3 must be over the target) to ensure sufficient coverage to properly design an effective MMI™ survey for your exploration program.
- Each site must expose at least 40cm of soil profile.



The final, optimal distance between sample sites will be dictated by the type and size of mineral deposit being explored. For example, fault-hosted gold deposits will likely have closer sample spacing than a porphyry copper deposit.

SAMPLE COLLECTION PROCEDURES

SAMPLING DEPTH

Proper collection procedures are vital to the success of an MMI™ Orientation Survey. Four samples must be taken from each pit to obtain a broad cross section of data sufficient to capture the optimal sampling depth. First, the interface or depth to begin sampling must be located. Typically, this interface is defined by the top of the humified organic layer lying just below the stratum containing leaf litter and organic material with visible structure (i.e. decomposing leaves, bark, twigs and peat). Below this interface, four depths are marked out (0-10cm, 10-20cm, 20-30cm, and 30-40cm) and samples are carefully taken from each, beginning at the bottom and working upwards.

SAMPLING PROCEDURE, SIZE AND STORAGE

Ensure that samples are taken from the bottom to the top of the hole. This will minimize the contamination of lower samples with soil from higher in the profile. The profile's stratigraphy or pedogenic mineral horizons are of no concern, as they do not affect concentrations of mobile metal ions. Using a plastic or vinyl scoop, take a cross section of material from each layer, ensuring each sample contains 200-300g of soil and is placed in a snap-seal plastic bag (e.g. Ziploc). Samples are not dried or sieved, and no sample preparation is required other than ensuring the sample is not contaminated. Record landscape characteristics at each sample station, including moisture content, range in particle size, thickness, nature of organic/inorganic materials, colour, and contamination caused by human activity (anthropogenic contamination).

CLEANLINESS

MMI™ geochemistry measures metallic mobile ions in parts per billion or sub-parts per billion. At these concentrations contamination can easily overwhelm

metal ion counts and strict adherence to survey cleanliness is required to ensure accuracy and repeatability on your Orientation Survey. Cleanliness practices that must be followed during your MMI™ Orientation Survey include:

- Sampling equipment to be brushed clean and flushed with soil from the new sample site before digging to eliminate residue from previous samples.
- During sample collection and handling, no jewelry (watches, rings, bracelets, chains etc.) can be worn, as this can be a major source of contamination.
- Sampling pits must be excavated with "clean" shovels that are paint and rust free.
- Vertical pit surfaces must be scraped clean to remove any debris and potential contaminants.
- Sampling equipment must be made of plastic or vinyl only.

SUMMARY

Mining companies worldwide are now using the SGS MMI™ (Mobile Metal Ion) technique to find gold, base metal mineralization and kimberlites. MMI™ is a powerful geochemical exploration tool that is enabling companies to explore areas that have been previously too difficult for surface geochemistry.

An MMI™ Orientation Survey ensures your full MMI™ Geochemical Survey is properly designed to maximize its impact on your exploration program. MMI™ Orientation Survey geochemistry measures metallic mobile ions in parts per billion and requires proper methodology and attention to cleanliness to ensure accurate, repeatable data. When done properly, it will help to ensure the applicability and optimization of your full SGS MMI™ survey.

The Orientation Survey consists of a single transect over a known target, with dense site spacing and multiple samples collected from each sample pit. It will help to:

- Determine a site spacing that is sufficiently dense to identify mineralization.
- Identify which elements are fingerprinting the mineralized zone.
- Establish the appropriate depth below live organic material at which to collect samples.

Establish the appropriate elements to use as a reduced MMI™-M package, or whether to do a complete package.

The success of your MMI™ Orientation Survey depends on proper methodology that produces representative, uncontaminated samples. SGS represents the global benchmark for accuracy and integrity in analytical procedures. We will work with you to ensure your survey is performed to the level of excellence required to achieve optimum MMI™ results. Our consultants can advise you on details of specific orientation surveys or data interpretation.



CONTACT INFORMATION

Email us at minerals@sgs.com
www.sgs.com/mining

SGS

WHEN YOU NEED TO BE SURE

MMI™ SAMPLING GUIDE

NORMAL ENVIRONMENTS

- In normal soil environments samples should be collected 10 to 25cm below the surface at a consistent depth.
- The initial step in taking an MMI™ soil sample requires the 10cm surface soil layer to be scraped away eliminating loose organic matter, debris, and any possible contamination.
- The sample is then taken between 10 and 25cm depth. The sample should be a “composite” taken over this 15cm interval.
- Using a plastic scoop or shovel take a cross section of the material between the 10 to 25cm depth and put into clean, properly labelled plastic bags. Collect approx. 250 to 350 grams of material.

BOREAL ENVIRONMENTS

- 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 25cm below this interface. The sample should be a continuous composite taken from the 15cm interval.
- Using a plastic scoop take a cross section of the material between the 10 to 25cm depth and put into clean, properly labelled plastic bags. Collect approx. 250 to 350 grams of material.

GUIDELINES

- Ensure not to mix organic and inorganic soils in the collected sample. For example, if the material within the 10 to 25cm zone has a mixture of humus and inorganic soil then proceed to the base of this “mixed zone” and collect the sample from the inorganic material.
- Do not vary depth beneath the true soil interface, or target a specific layer/feature of a soil profile when sampling. Extensive research has shown that mobile element concentrations are linked to the process of capillary rise and the depth at which water is removed from a soil by evaporation and evapotranspiration (i.e. expect to see tree roots). Any significant variation in sampling depth and technique can cause severe problems for interpretation. It is imperative that all samples are collected in a consistent manner. In most tropical terrains, the true soil interface is the ground surface. In terrains with deep organic overburden, the true soil interface is the position where plant matter and debris ceases and organic soil material with an obvious mineral content becomes evident.
- Before actually taking the sample, brush sampling equipment to eliminate residue from previous samples and flush it with soil from the new sample site.
- Samples DO NOT have to be completely free of organics but should have a dominant mineral fraction. During sample collection and handling, no jewellery (watches, rings, bracelets, and chains) should be worn, as this can be a major source of contamination.
- Moist Samples – Damp samples should be collected in a similar manner to soils in dry environments. Samples should not be dried in ovens or pulverised in crushers or mills. In the case of dry plastic clays, sample material can be desegregated by crushing with a mallet between disposable plastic sheets. Sieving should be avoided if there is any possibility of serious cross-contamination during sample collection via the sieve. In this case, larger rocks and twigs/leaves etc. can be removed carefully by hand.
- Organic Material – Organic material in the form of fine roots and hairs, decomposing leaf material and other fine organic debris WILL NOT adversely affect MMI™ analyses. Experimental work has shown that variability in sampling depth has a more significant impact on element responses.
- Contaminated Sites – Where there is a potential contamination problem, samples should be collected as to avoid any contaminated material and the sampler’s judgment must be relied upon. Again, it is extremely important to keep good note of all the potential factors that may affect the sampling and interpretation.

EQUIPMENT

- A 30cm diameter plastic garden sieve or kitchen colander with minus 5mm apertures, available from hardware and supermarkets, is ideal for sample collection. This is used only to remove large pebbles or roots.
- Plastic collection dish with similar diameter and a kitchen floor brush used for cleaning the sieve and dish between samples.
- A bare steel (no paint) garden spade.
- Plastic snap seal bags, do not use calico or brown paper.

Proper labelling of all samples is critical. Do not use water soluble markers or paper inside wet bags.

OTHER ASSISTANCE

SGS has a number of case studies and technical bulletins to help with all your sampling needs. Please visit our web site for further details or to contact our local SGS representatives. Consultants are available for sampling assistance and/or interpretation.

CONTACT INFORMATION

Email us at minerals@sgs.com
www.sgs.com/mining

Appendix B

MMI Sampling Profiles and SGS Certificates

MMI Plots by Group

CT-OG-01 plots (9)

CT-OG-02 plots (9)

CT-OG-04 plots (9)

MMI Certificates by Group

VC 183049 CT-OG-04

VC 183051 CT-OG-04

VC 183052 CT-OG-04

VC 183053 CT-OG-04

VC 183054 CT-OG-04

VC 183055 CT-OG-01

VC 183056 CT-OG-02

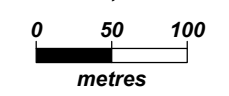
VC 183057 CT-OG-02

**CENTRAL TIMMINS
EXPLORATION CORP.
OGDEN TWP.
GRID CT-OG-01
MMI SAMPLING - Ag RESULTS
SATELLITE IMAGE BASE**



UTM Zone 17, NAD83

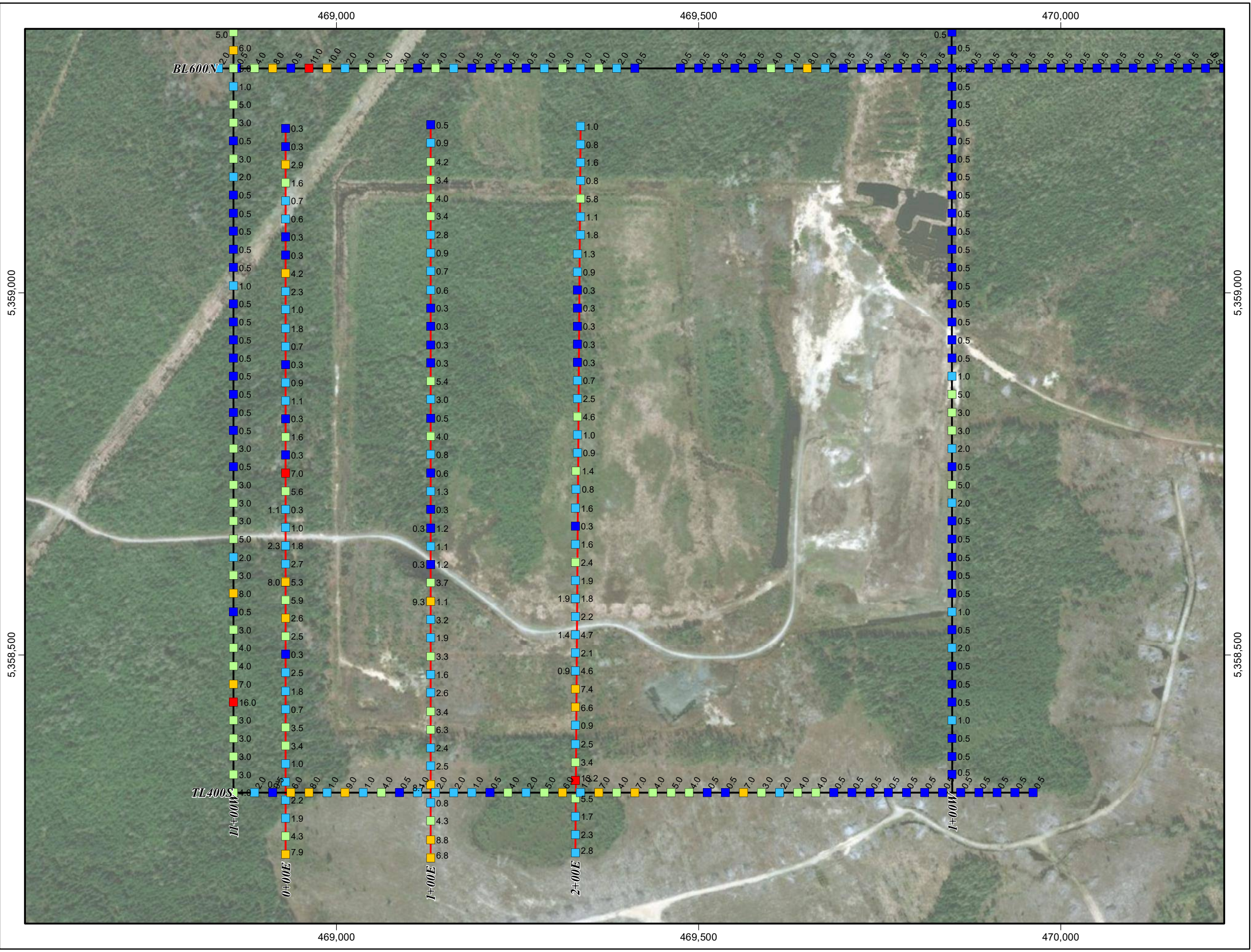
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LEGEND

Gridline by Year
 — 2010; 2011
 — 2018

MMI Ag (ppb Ag posted)
 Response Ratio by sample media
 ■ >20 RR
 ■ 10 - 20
 ■ 5 - 10
 ■ 1 - 5
 ■ 0 - 1

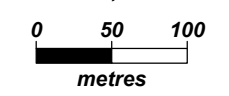


**CENTRAL TIMMINS
EXPLORATION CORP.
OGDEN TWP.
GRID CT-OG-01
MMI SAMPLING - As RESULTS
SATELLITE IMAGE BASE**



UTM Zone 17, NAD83

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LEGEND

Gridline by Year
 — 2010; 2011
 — 2018

MMI As (ppb As posted)
 Response Ratio by sample media

- >20 RR
- 10 - 20
- 5 - 10
- 1 - 5
- 0 - 1

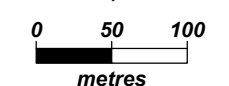


**CENTRAL TIMMINS
EXPLORATION CORP.
OGDEN TWP.
GRID CT-OG-01
MMI SAMPLING - Au RESULTS
SATELLITE IMAGE BASE**



UTM Zone 17, NAD83

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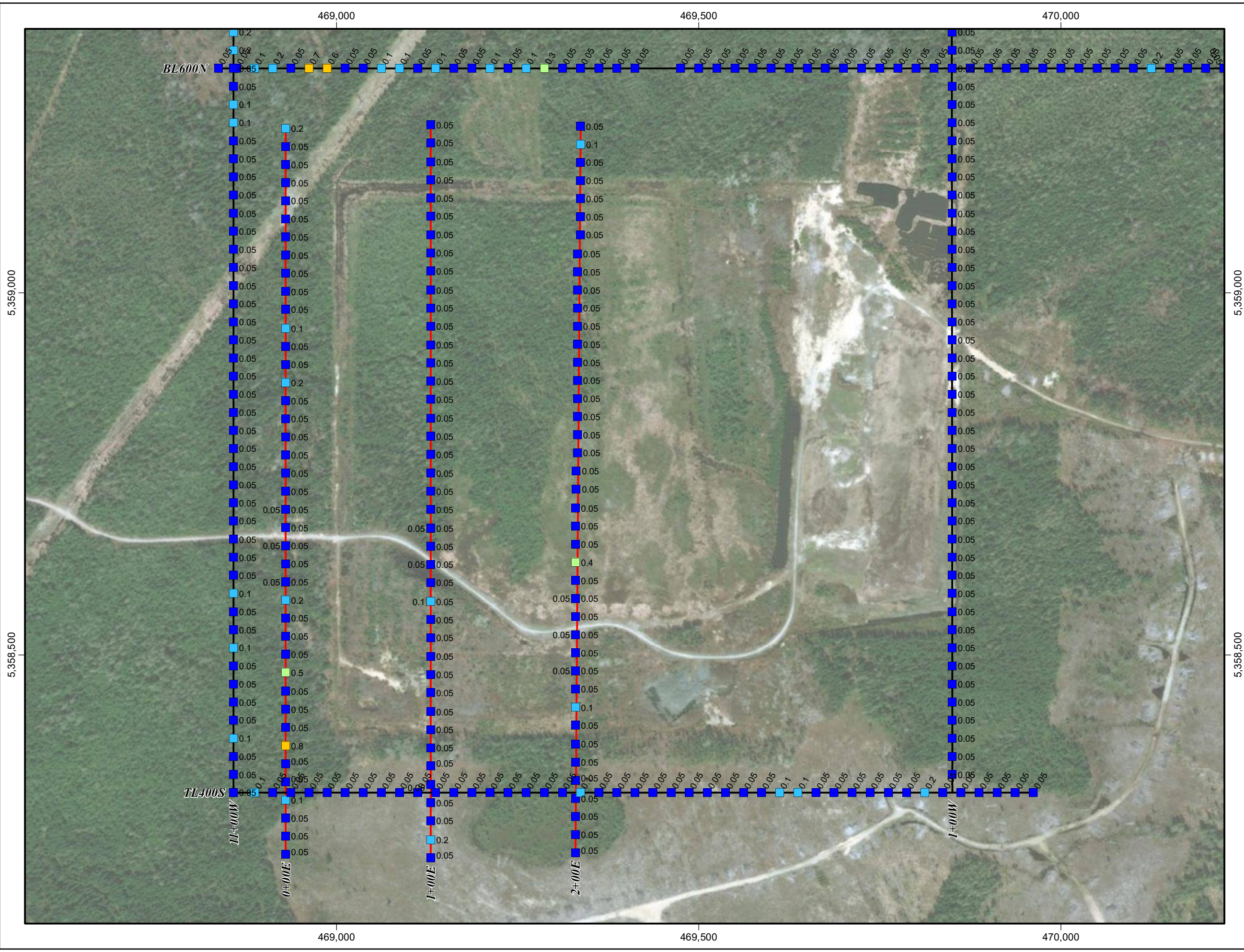


LEGEND

Gridline by Year
 — 2010; 2011
 — 2018

MMI Au (ppb Au posted)
 Response Ratio by sample media

- >20 RR
- 10 - 20
- 5 - 10
- 1 - 5
- 0 - 1

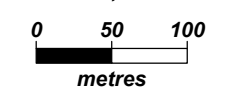


**CENTRAL TIMMINS
EXPLORATION CORP.
OGDEN TWP.
GRID CT-OG-01
MMI SAMPLING - Cd RESULTS
SATELLITE IMAGE BASE**



UTM Zone 17, NAD83

1:5,000



LEGEND

Gridline by Year
 — 2010; 2011
 — 2018

MMI Cd (ppb Cd posted)
 Response Ratio by sample media
 ■ >20 RR
 ■ 10 - 20
 ■ 5 - 10
 ■ 1 - 5
 ■ 0 - 1

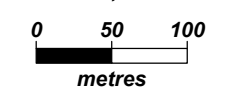


**CENTRAL TIMMINS
EXPLORATION CORP.
OGDEN TWP.
GRID CT-OG-01
MMI SAMPLING - Co RESULTS
SATELLITE IMAGE BASE**



UTM Zone 17, NAD83

1:5,000

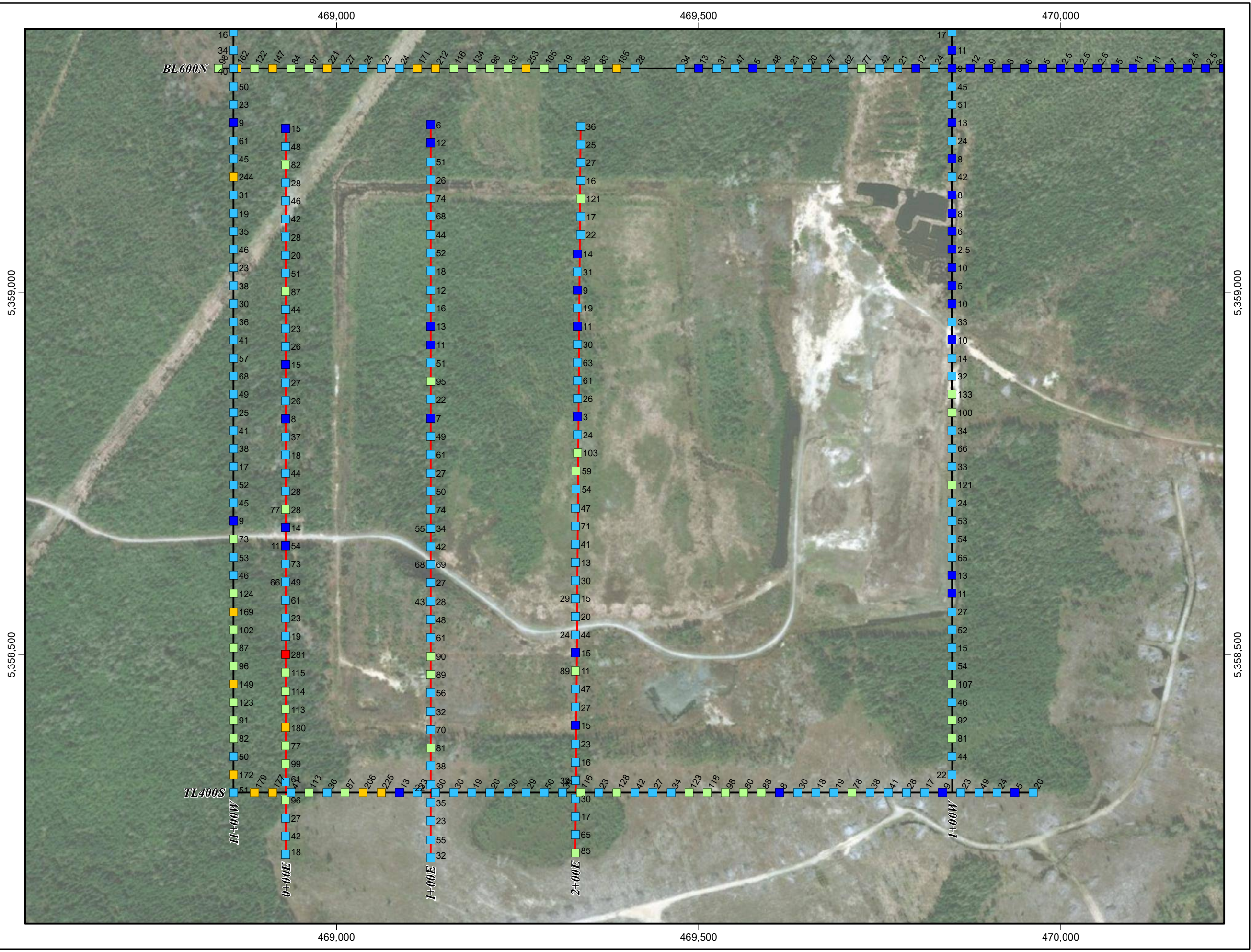


LEGEND

Gridline by Year
 — 2010; 2011
 — 2018

MMI Co (ppb Co posted)
 Response Ratio by sample media

- >20 RR
- 10 - 20
- 5 - 10
- 1 - 5
- 0 - 1

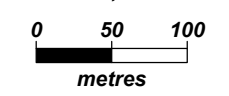


**CENTRAL TIMMINS
EXPLORATION CORP.
OGDEN TWP.
GRID CT-OG-01
MMI SAMPLING - Cu RESULTS
SATELLITE IMAGE BASE**



UTM Zone 17, NAD83

1:5,000

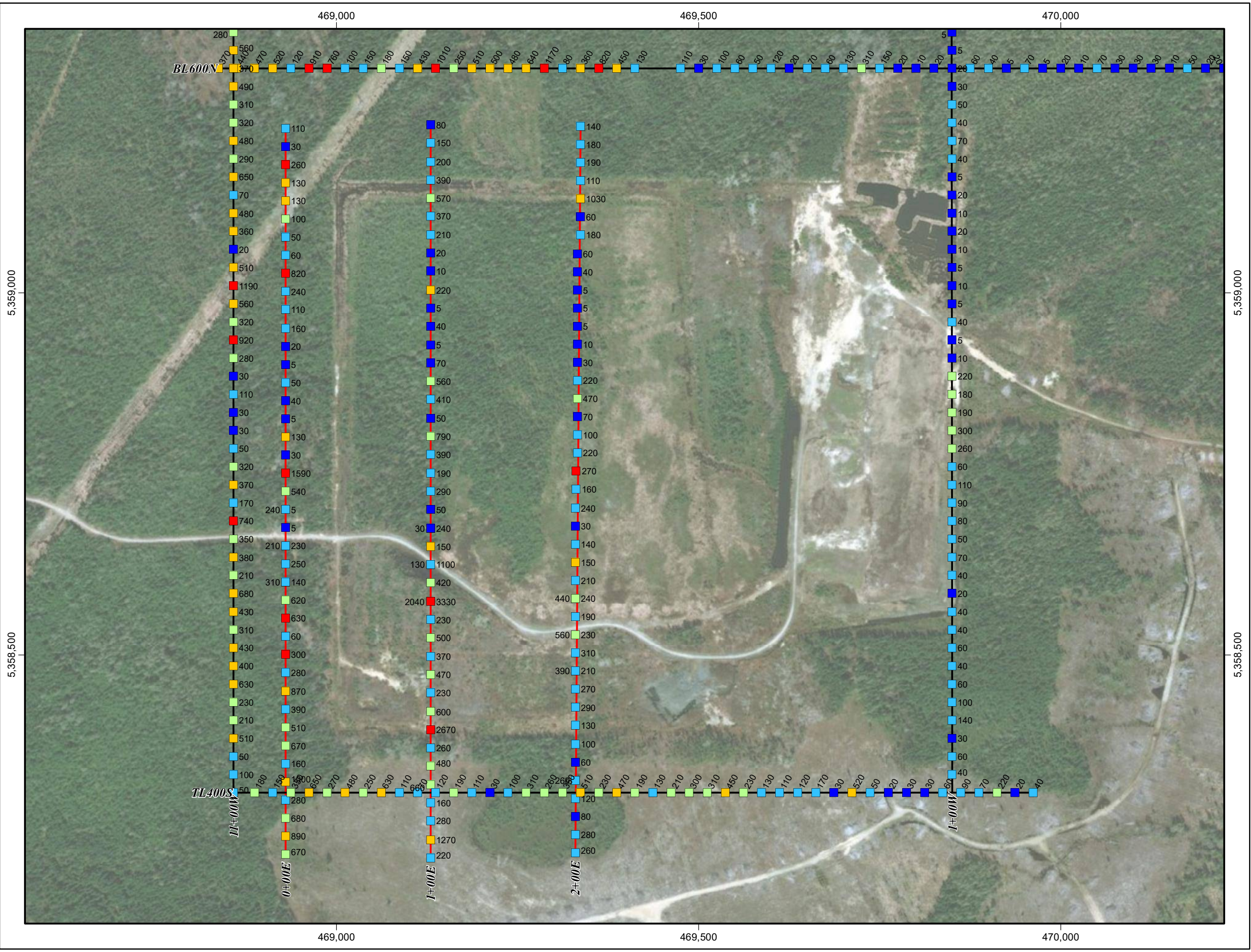


LEGEND

Gridline by Year
 — 2010; 2011
 — 2018

MMI Cu (ppb Cu posted)
 Response Ratio by sample media

- >20 RR
- 10 - 20
- 5 - 10
- 1 - 5
- 0 - 1

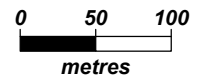


**CENTRAL TIMMINS
EXPLORATION CORP.
OGDEN TWP.
GRID CT-OG-01
MMI SAMPLING - Ni RESULTS
SATELLITE IMAGE BASE**



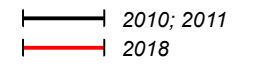
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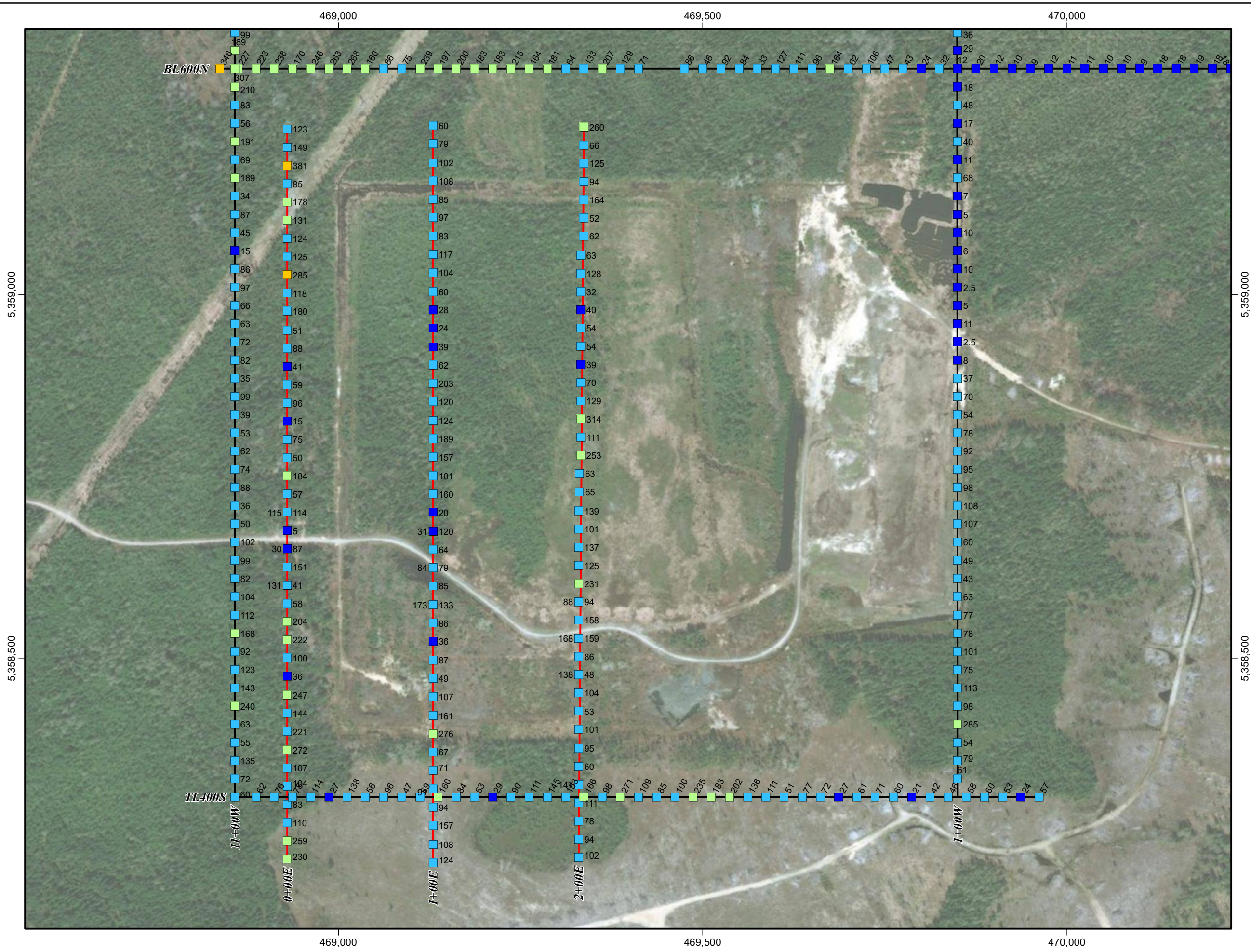
LEGEND

Gridline by Year



MMI Ni (ppb Ni posted)

Response Ratio by sample media

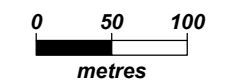


**CENTRAL TIMMINS
EXPLORATION CORP.
OGDEN TWP.
GRID CT-OG-01
MMI SAMPLING - Pb RESULTS
SATELLITE IMAGE BASE**



UTM Zone 17, NAD83

1:5,000



LEGEND

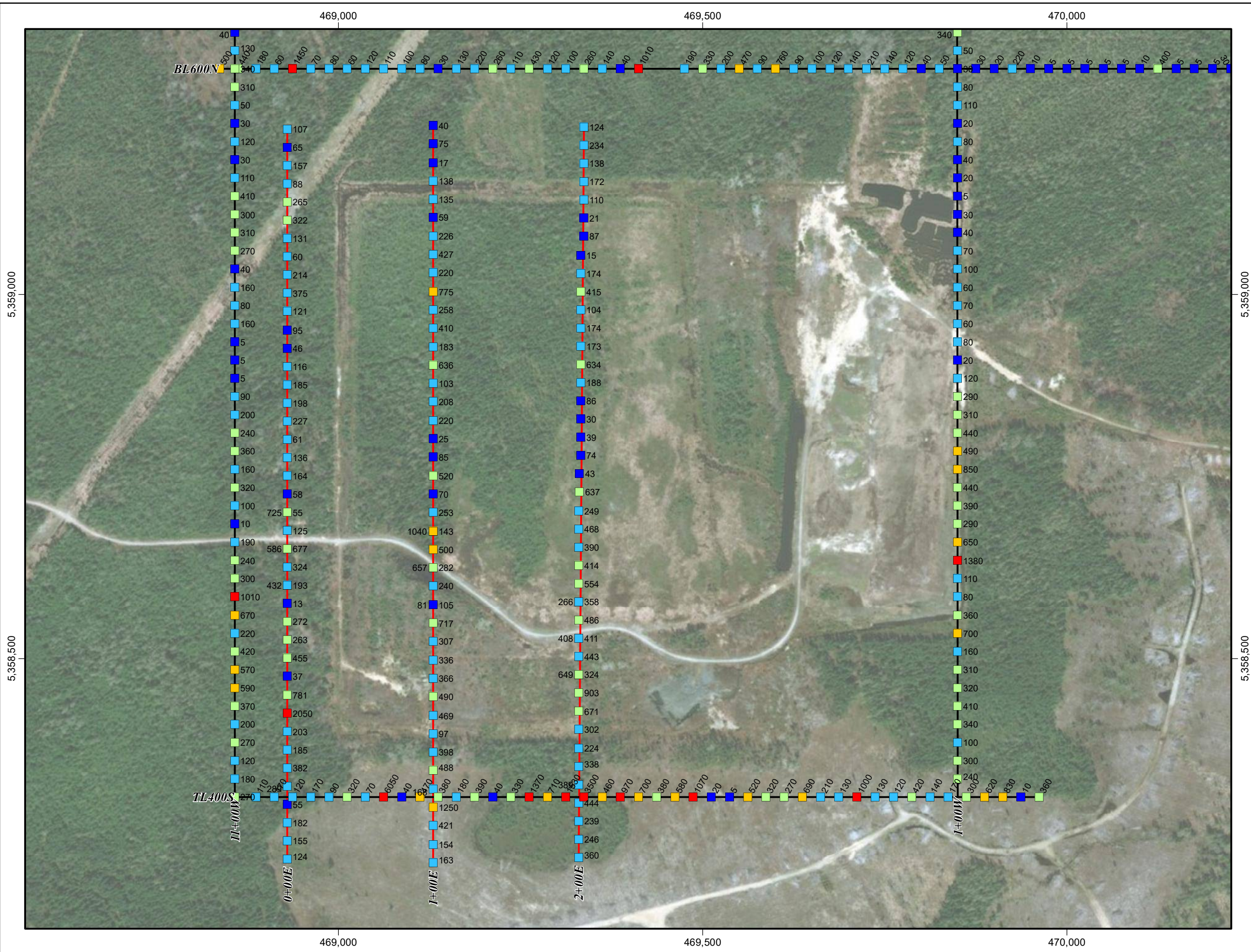
Gridline by Year

- 2010; 2011
- 2018

MMI Pb (ppb Pb posted)

Response Ratio by sample media

- >20 RR
- 10 - 20
- 5 - 10
- 1 - 5
- 0 - 1

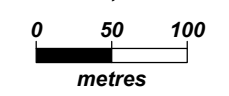


**CENTRAL TIMMINS
EXPLORATION CORP.
OGDEN TWP.
GRID CT-OG-01
MMI SAMPLING - Zn RESULTS
SATELLITE IMAGE BASE**



UTM Zone 17, NAD83

1:5,000

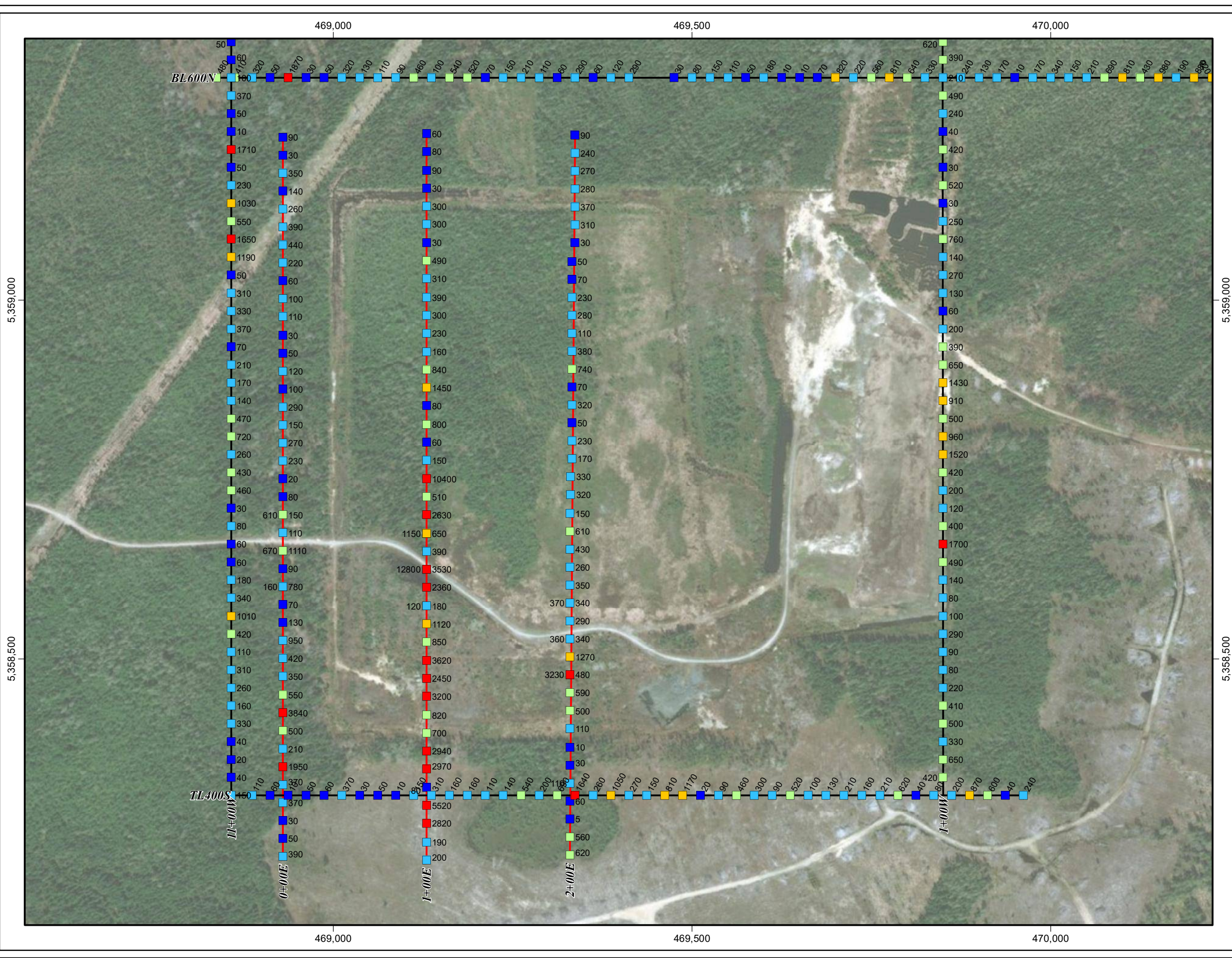


LEGEND

Gridline by Year
 — 2010; 2011
 — 2018

MMI Zn (ppb Zn posted)
Response Ratio by sample media

- >20 RR
- 10 - 20
- 5 - 10
- 1 - 5
- 0 - 1

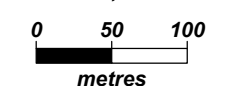


**CENTRAL TIMMINS
EXPLORATION CORP.
OGDEN TWP.
GRID CT-OG-02
MMI SAMPLING - Ag RESULTS
SATELLITE IMAGE BASE**



UTM Zone 17, NAD83

1:5,000

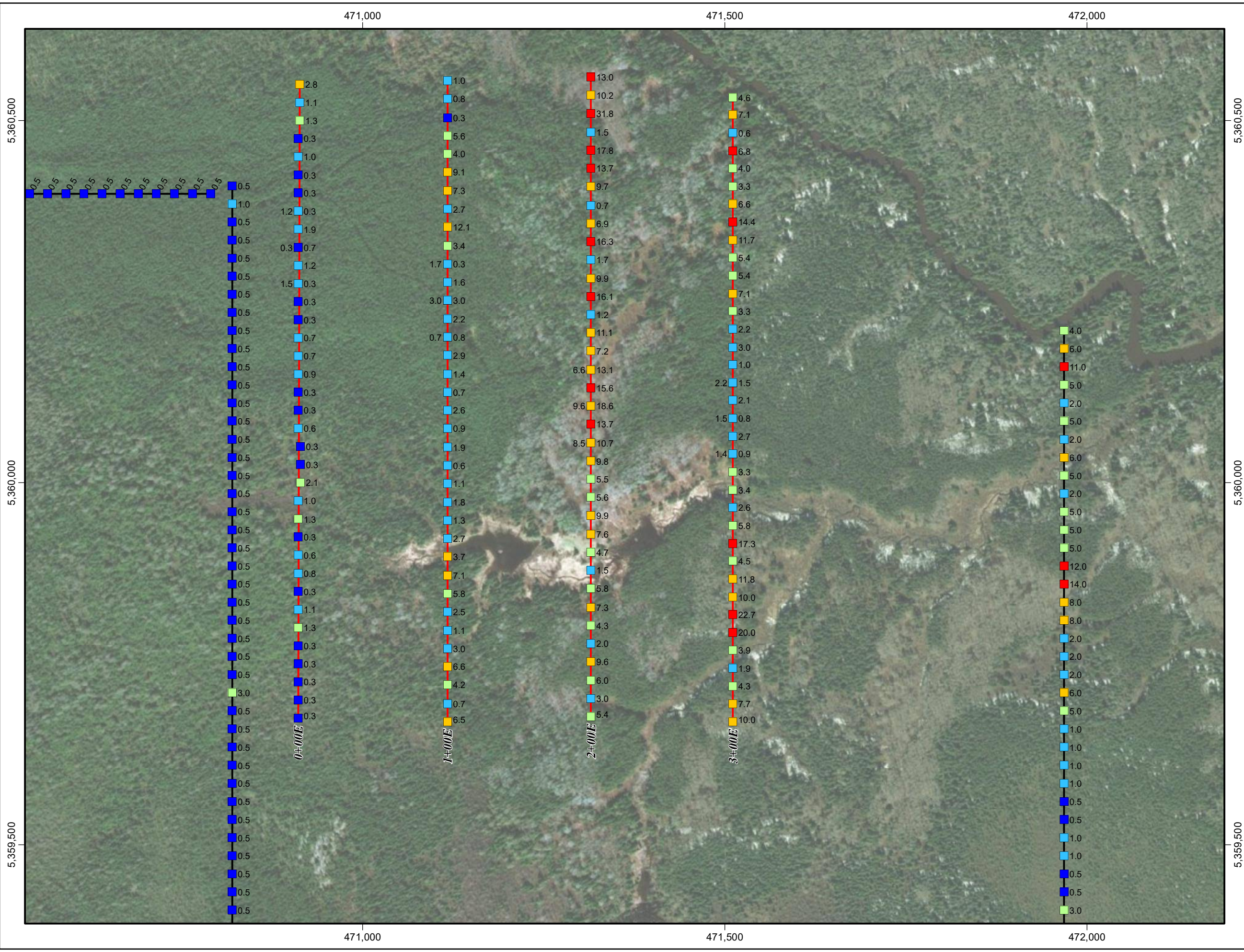


LEGEND

Gridline by Year
 — 2010; 2011
 — 2018

MMI Ag (ppb Ag posted)
 Response Ratio by sample media

- >20 RR
- 10 - 20
- 5 - 10
- 1 - 5
- 0 - 1

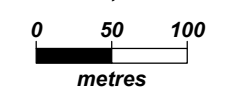


**CENTRAL TIMMINS
EXPLORATION CORP.
OGDEN TWP.
GRID CT-OG-02
MMI SAMPLING - As RESULTS
SATELLITE IMAGE BASE**



UTM Zone 17, NAD83

1:5,000

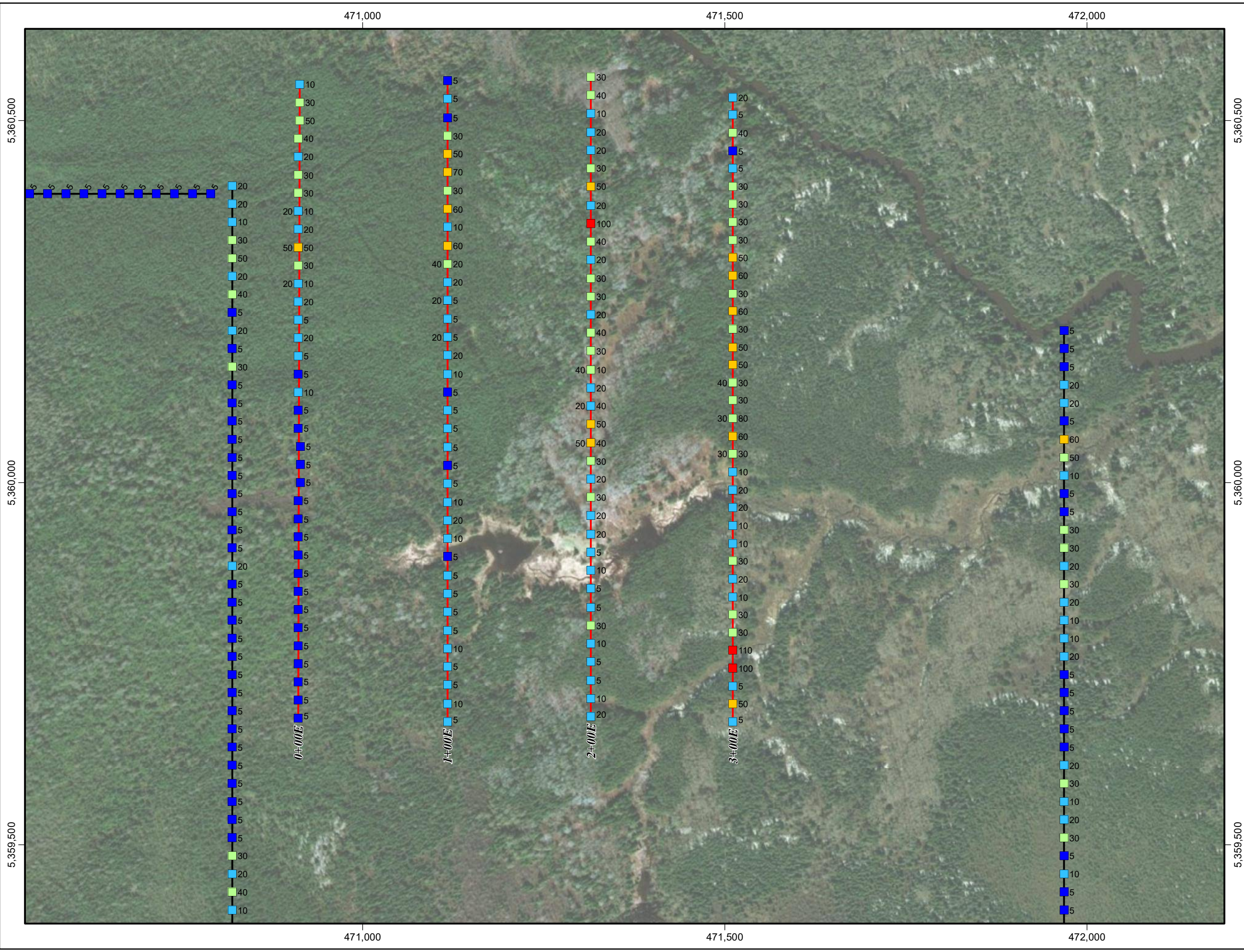


LEGEND

Gridline by Year
 — 2010; 2011
 — 2018

MMI As (ppb As posted)
 Response Ratio by sample media

- >20 RR
- 10 - 20
- 5 - 10
- 1 - 5
- 0 - 1

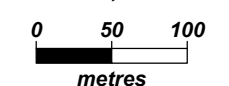


**CENTRAL TIMMINS
EXPLORATION CORP.
OGDEN TWP.
GRID CT-OG-02
MMI SAMPLING - Au RESULTS
SATELLITE IMAGE BASE**



UTM Zone 17, NAD83

1:5,000

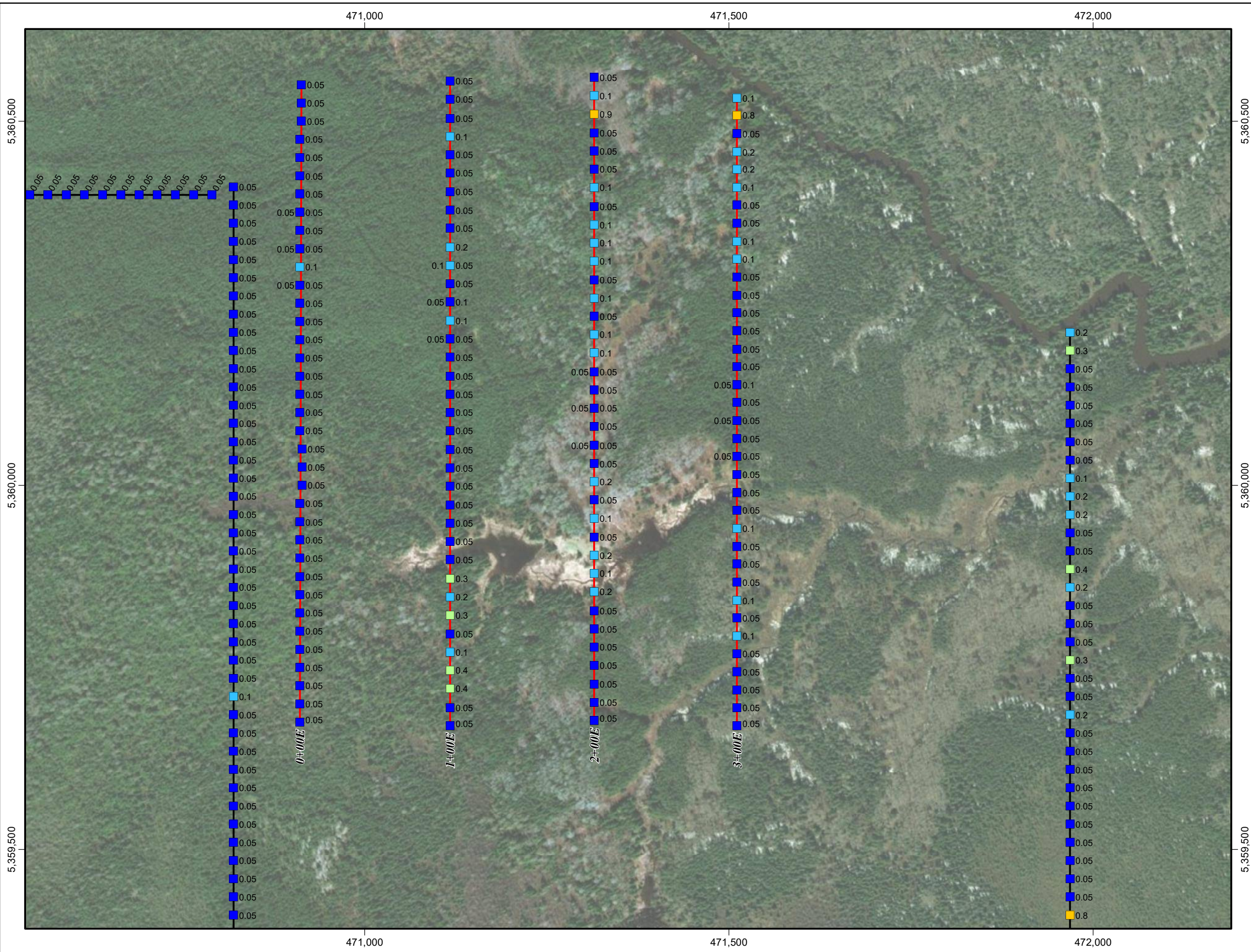


LEGEND

Gridline by Year
 — 2010; 2011
 — 2018

MMI Au (ppb Au posted)
 Response Ratio by sample media

- >20 RR
- 10 - 20
- 5 - 10
- 1 - 5
- 0 - 1

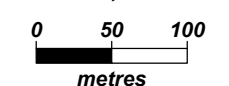


**CENTRAL TIMMINS
EXPLORATION CORP.
OGDEN TWP.
GRID CT-OG-02
MMI SAMPLING - Cd RESULTS
SATELLITE IMAGE BASE**



UTM Zone 17, NAD83

1:5,000

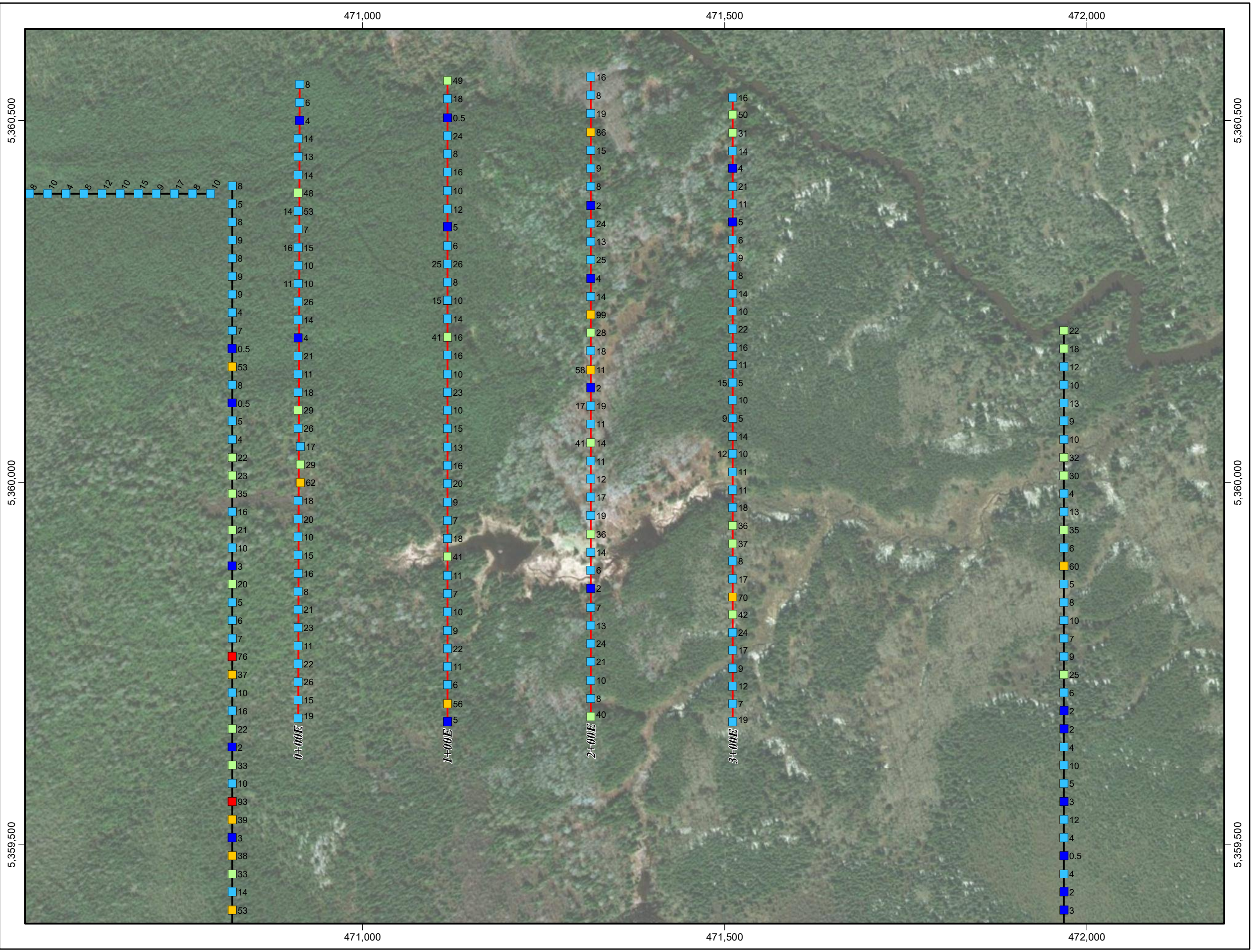


LEGEND

Gridline by Year
 — 2010; 2011
 — 2018

MMI Cd (ppb Cd posted)
 Response Ratio by sample media

- >20 RR
- 10 - 20
- 5 - 10
- 1 - 5
- 0 - 1



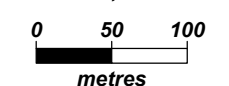
**CENTRAL TIMMINS
EXPLORATION CORP.
OGDEN TWP.**

**GRID CT-OG-02
MMI SAMPLING - Co RESULTS
SATELLITE IMAGE BASE**



UTM Zone 17, NAD83

1:5,000

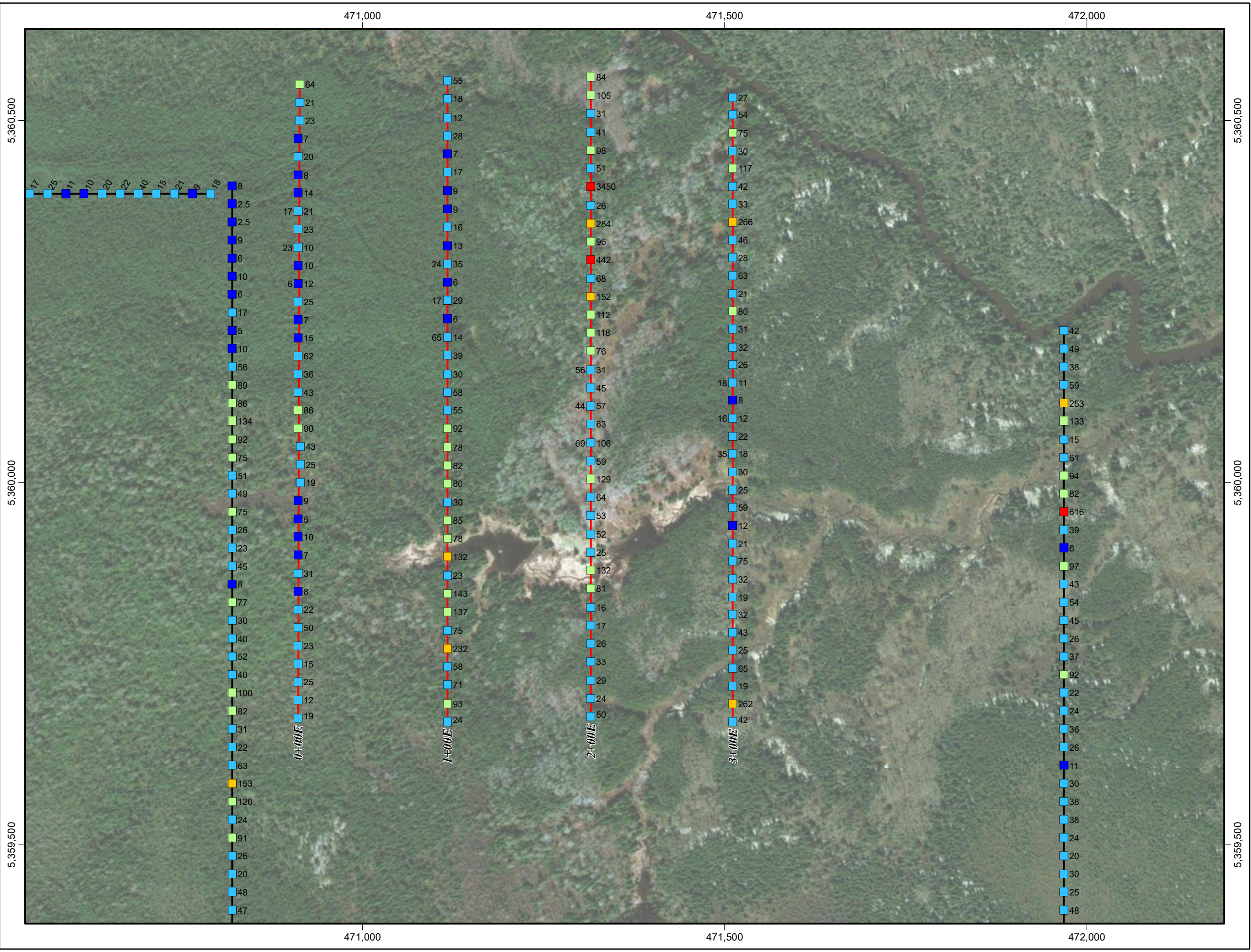


LEGEND

Gridline by Year
 — 2010; 2011
 — 2018

MMI Co (ppb Co posted)
 Response Ratio by sample media

- >20 RR
- 10 - 20
- 5 - 10
- 1 - 5
- 0 - 1

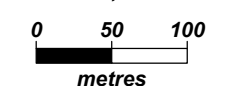


**CENTRAL TIMMINS
EXPLORATION CORP.
OGDEN TWP.
GRID CT-OG-02
MMI SAMPLING - Cu RESULTS
SATELLITE IMAGE BASE**



UTM Zone 17, NAD83

1:5,000

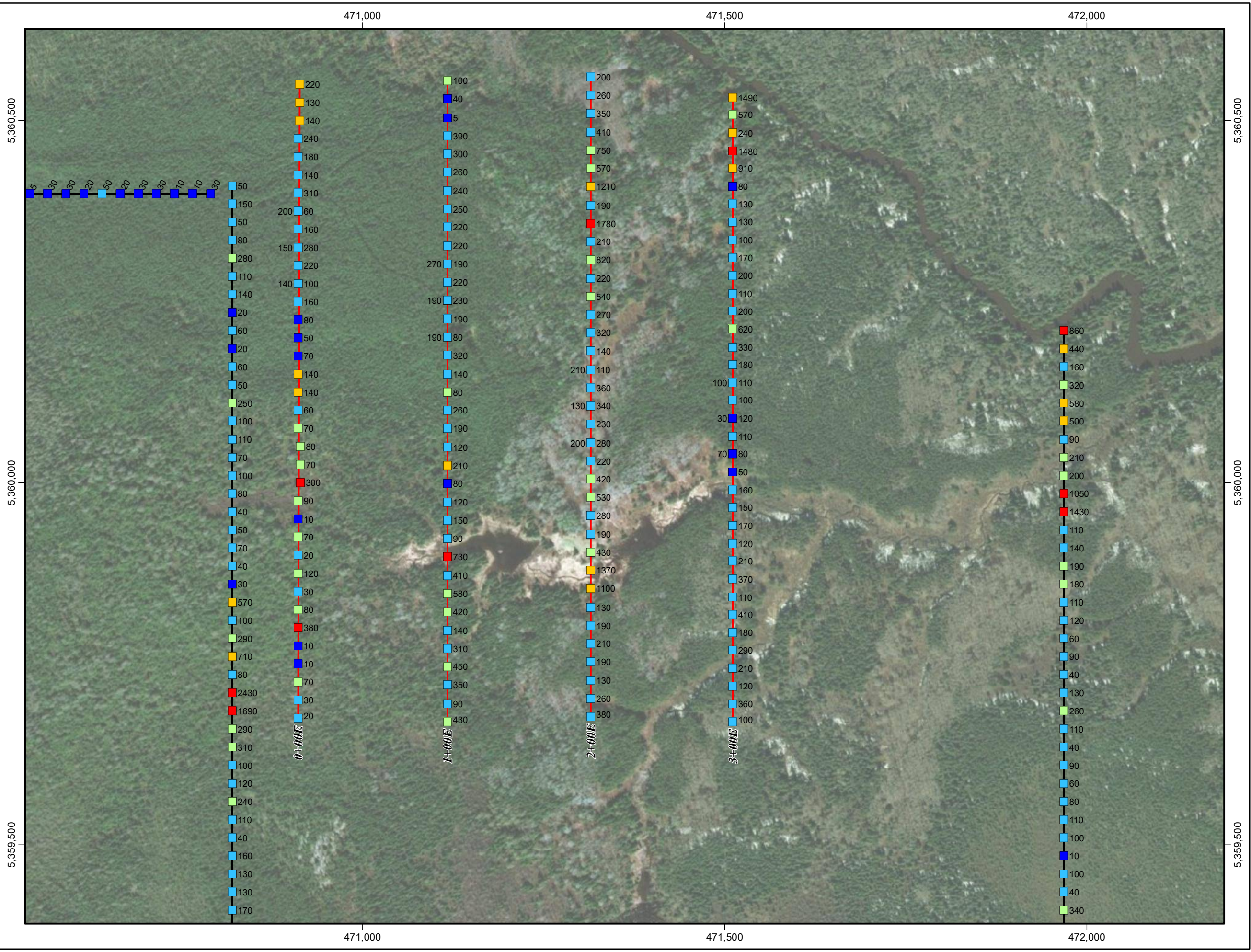


LEGEND

Gridline by Year
 — 2010; 2011
 — 2018

MMI Cu (ppb Cu posted)
 Response Ratio by sample media

- >20 RR
- 10 - 20
- 5 - 10
- 1 - 5
- 0 - 1

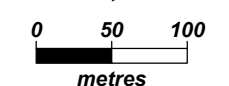


**CENTRAL TIMMINS
EXPLORATION CORP.
OGDEN TWP.
GRID CT-OG-02
MMI SAMPLING - Ni RESULTS
SATELLITE IMAGE BASE**



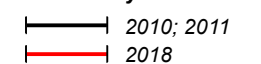
UTM Zone 17, NAD83

1:5,000



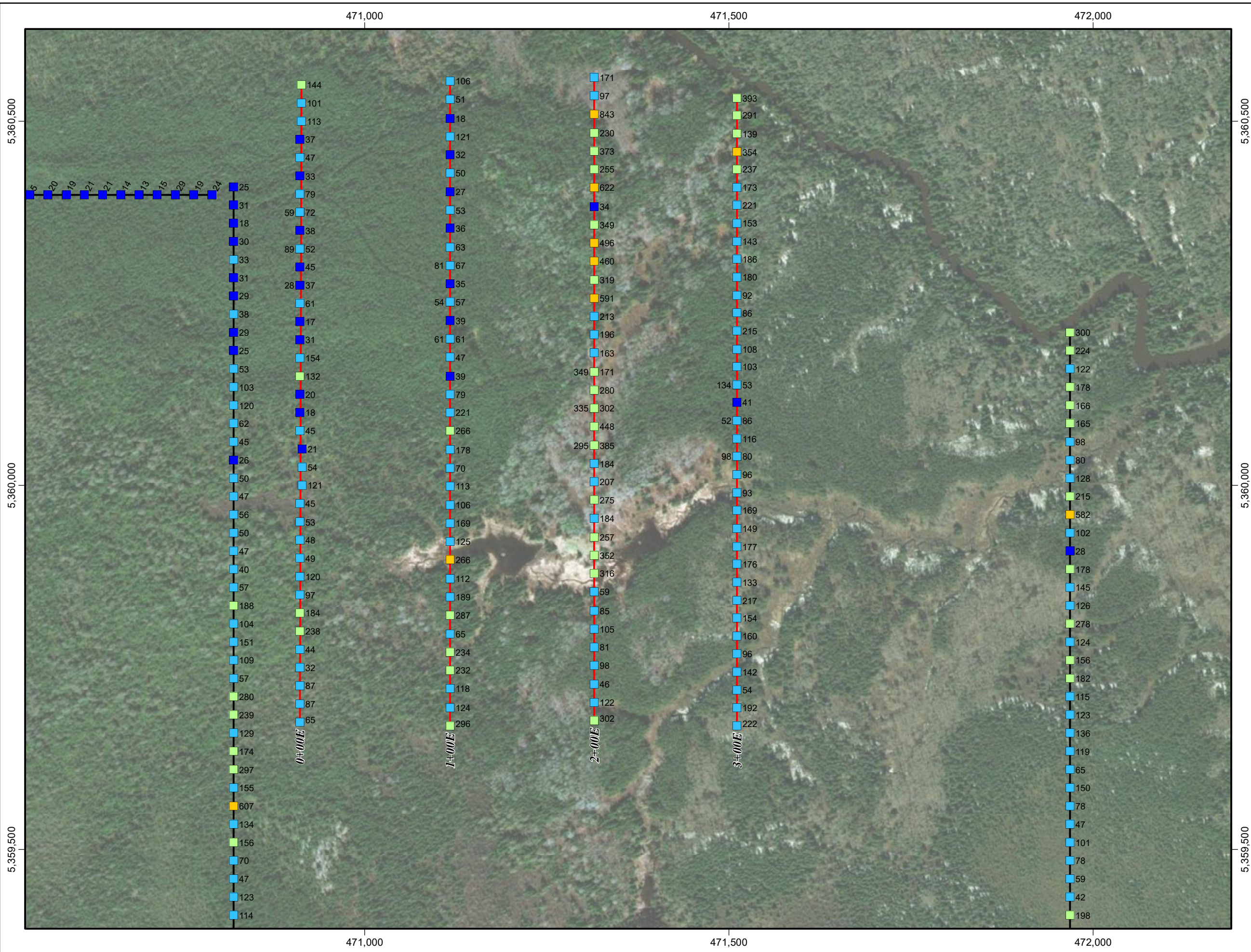
LEGEND

Gridline by Year



MMI Ni (ppb Ni posted)

Response Ratio by sample media



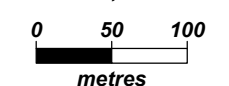
**CENTRAL TIMMINS
EXPLORATION CORP.
OGDEN TWP.**

**GRID CT-OG-02
MMI SAMPLING - Pb RESULTS
SATELLITE IMAGE BASE**



UTM Zone 17, NAD83

1:5,000

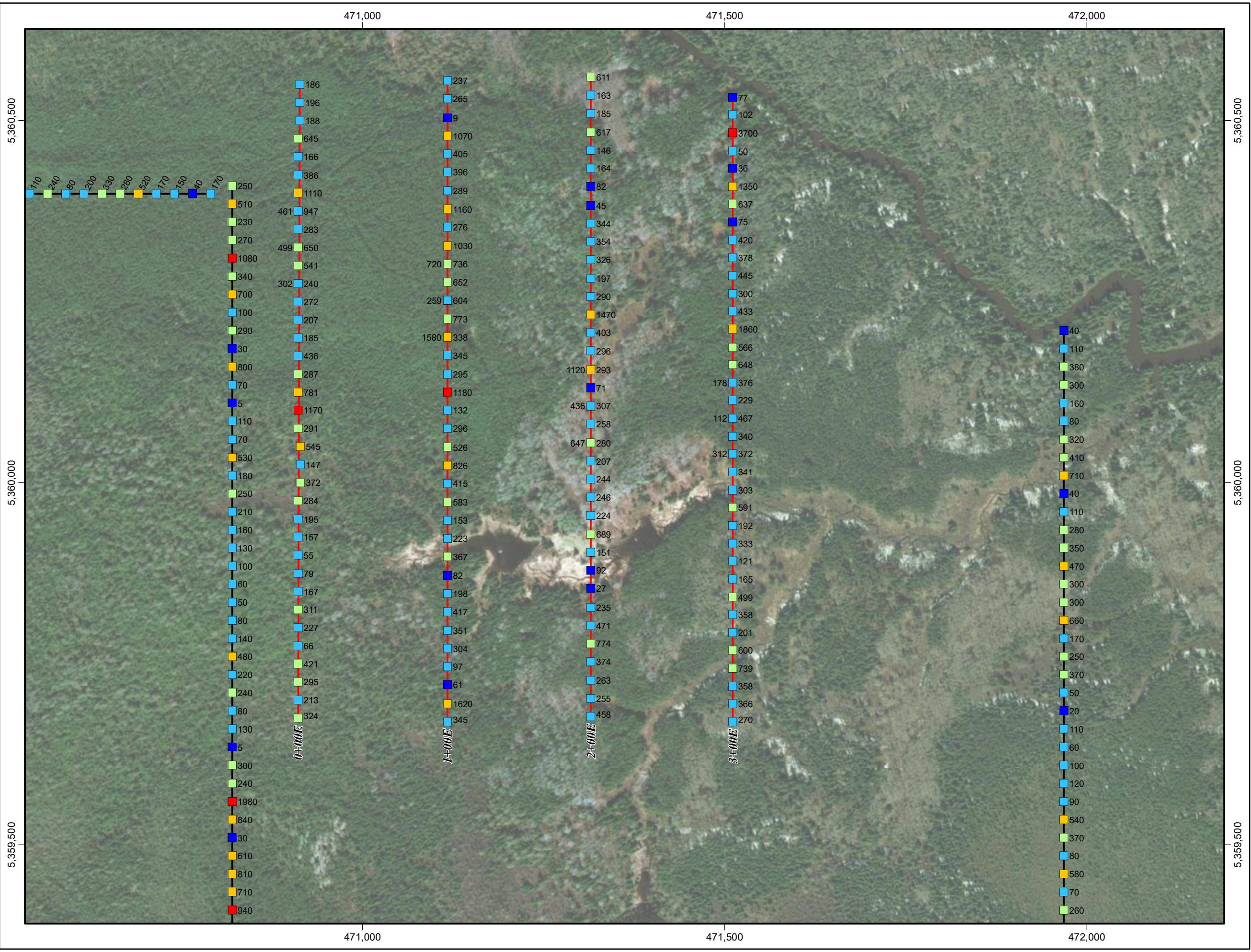


LEGEND

Gridline by Year
 — 2010; 2011
 — 2018

MMI Pb (ppb Pb posted)
 Response Ratio by sample media

- >20 RR
- 10 - 20
- 5 - 10
- 1 - 5
- 0 - 1

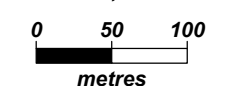


**CENTRAL TIMMINS
EXPLORATION CORP.
OGDEN TWP.
GRID CT-OG-02
MMI SAMPLING - Zn RESULTS
SATELLITE IMAGE BASE**



UTM Zone 17, NAD83

1:5,000

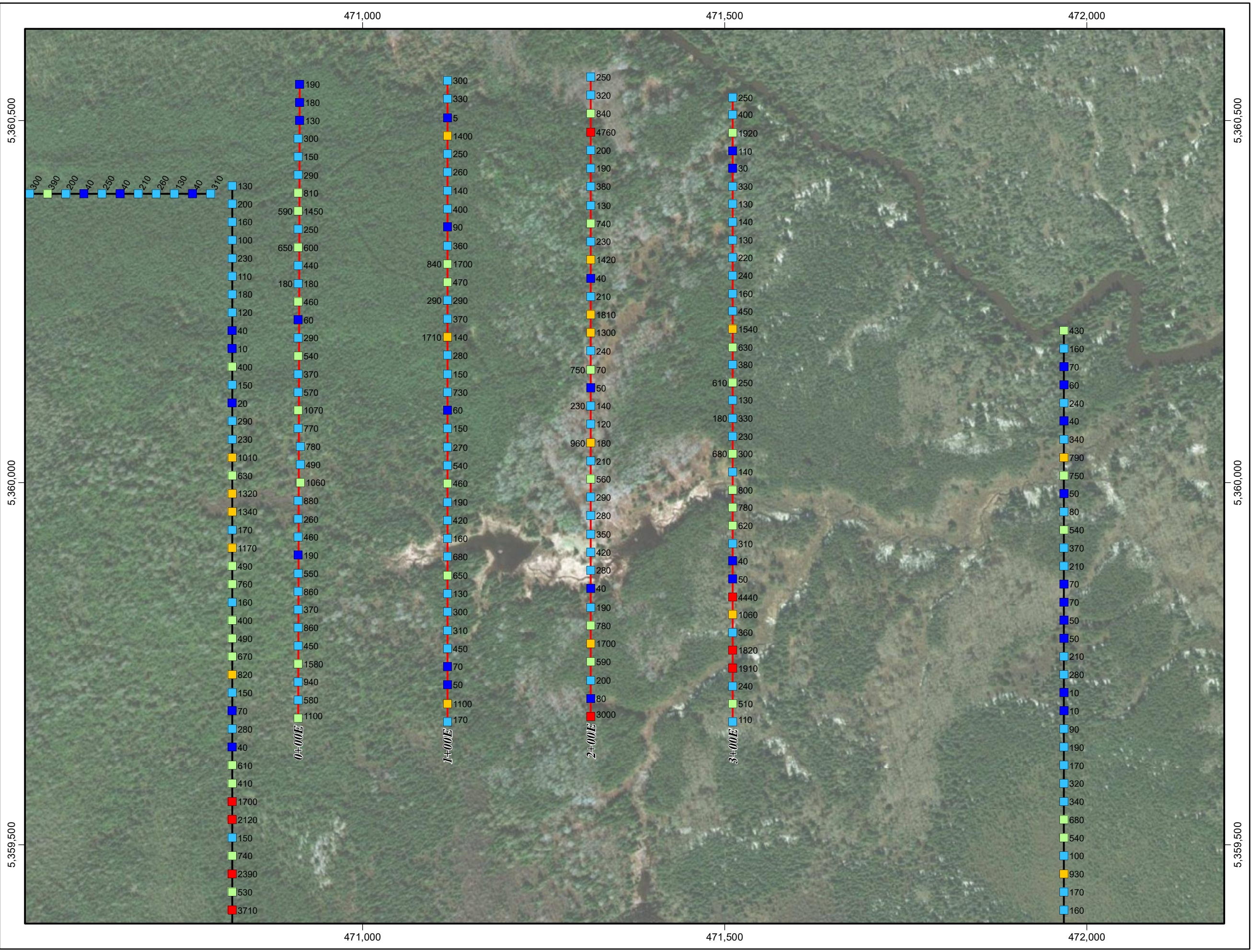


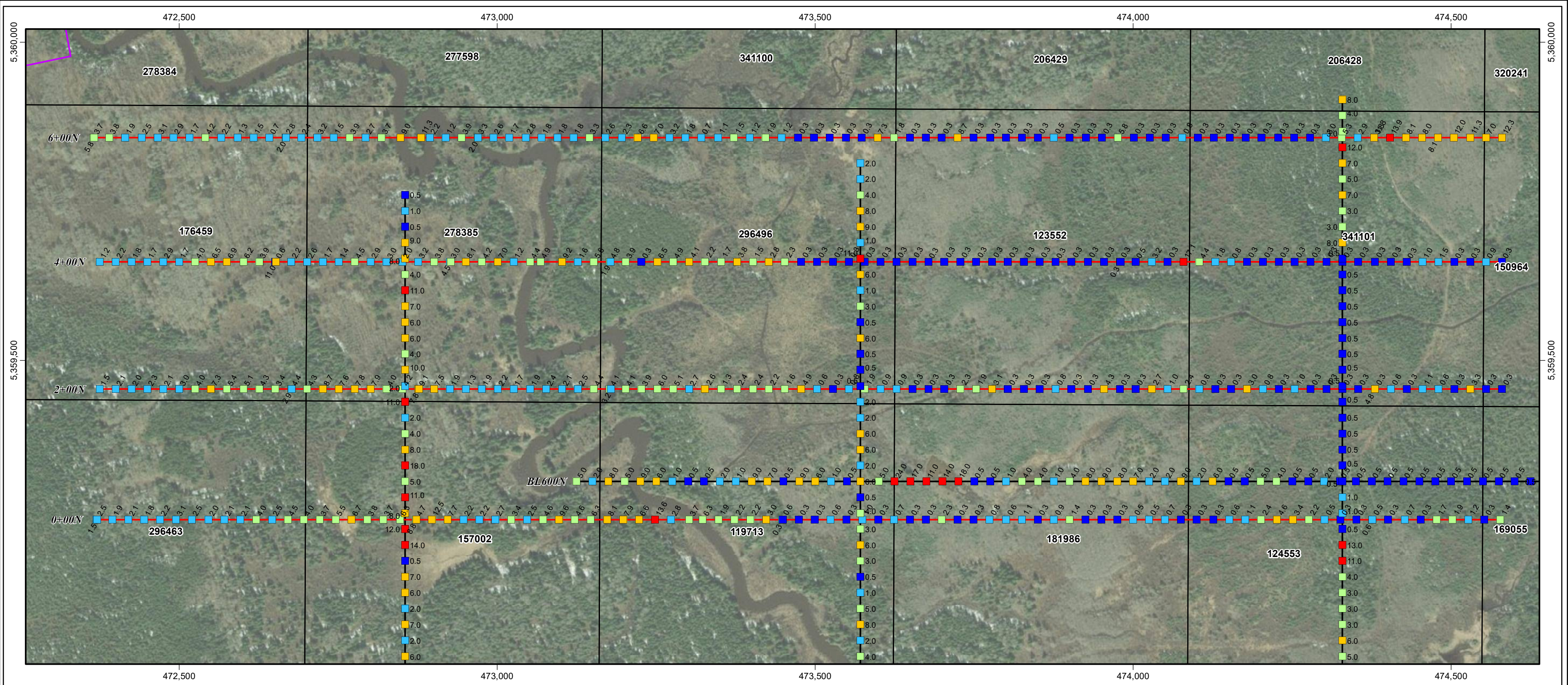
LEGEND

Gridline by Year
 — 2010; 2011
 — 2018

MMI Zn (ppb Zn posted)
Response Ratio by sample media

- >20 RR
- 10 - 20
- 5 - 10
- 1 - 5
- 0 - 1





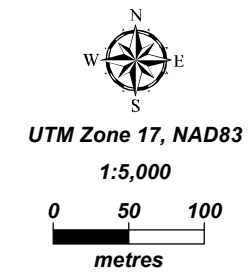
LEGEND

Gridline by Year
 — 2010; 2011
 - - 2018

Claims
 [Black outline] CTEC Boundary
 [White outline] CTEC Operational Cell Claim
 [Purple outline] CTEC Patents Outline

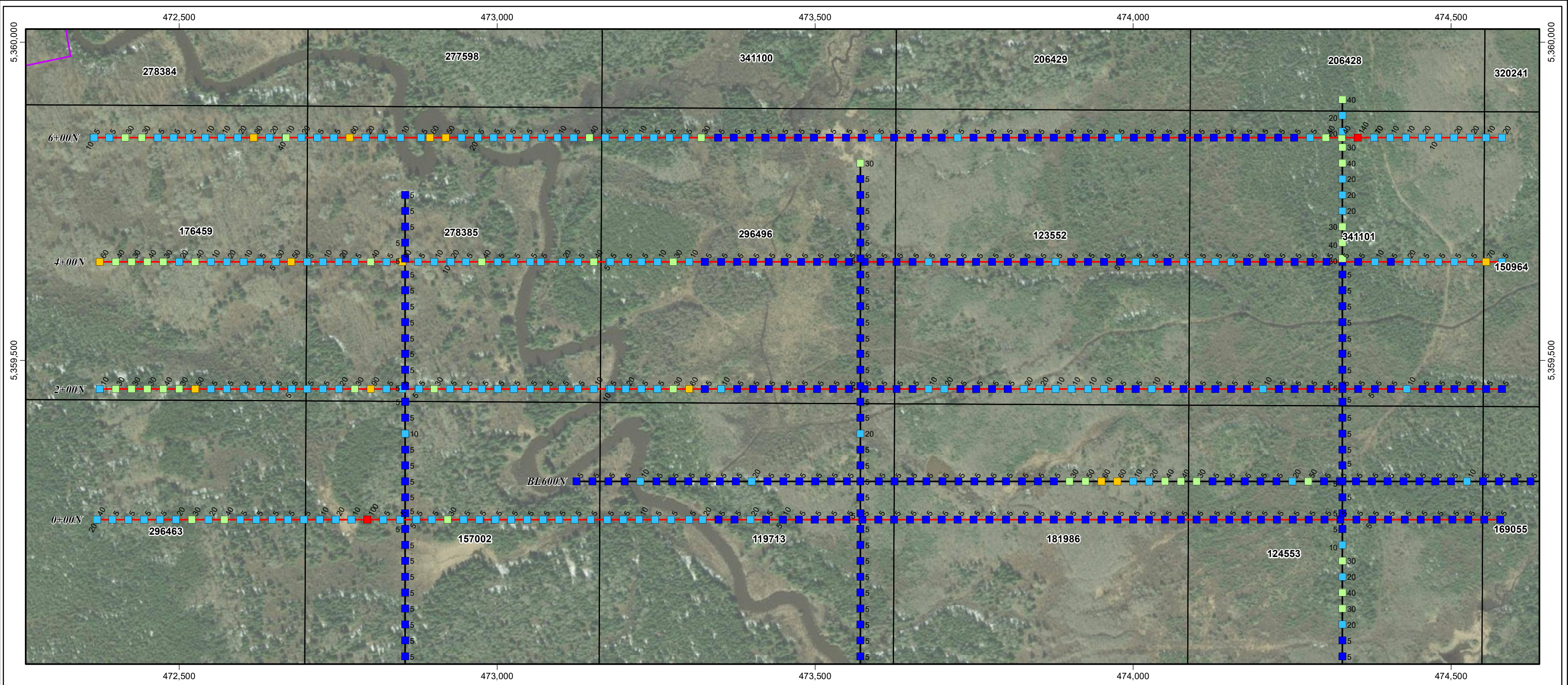
MMI Ag (ppb Ag posted)
 Response Ratio by sample media

[Red]	>20 RR
[Yellow]	10 - 20
[Green]	5 - 10
[Light Blue]	1 - 5
[Dark Blue]	0 - 1



**CENTRAL TIMMINS
 EXPLORATION CORP.**
OGDEN TWP.

**GRID CT-OG-04
 MMI SAMPLING - Ag RESULTS
 SATELLITE IMAGE BASE**



LEGEND

Gridline by Year
 2010; 2011 (black line)
 2018 (red line)

Claims
 CTEC Boundary (black outline)
 CTEC Operational Cell Claim (blue outline)
 CTEC Patents Outline (pink outline)

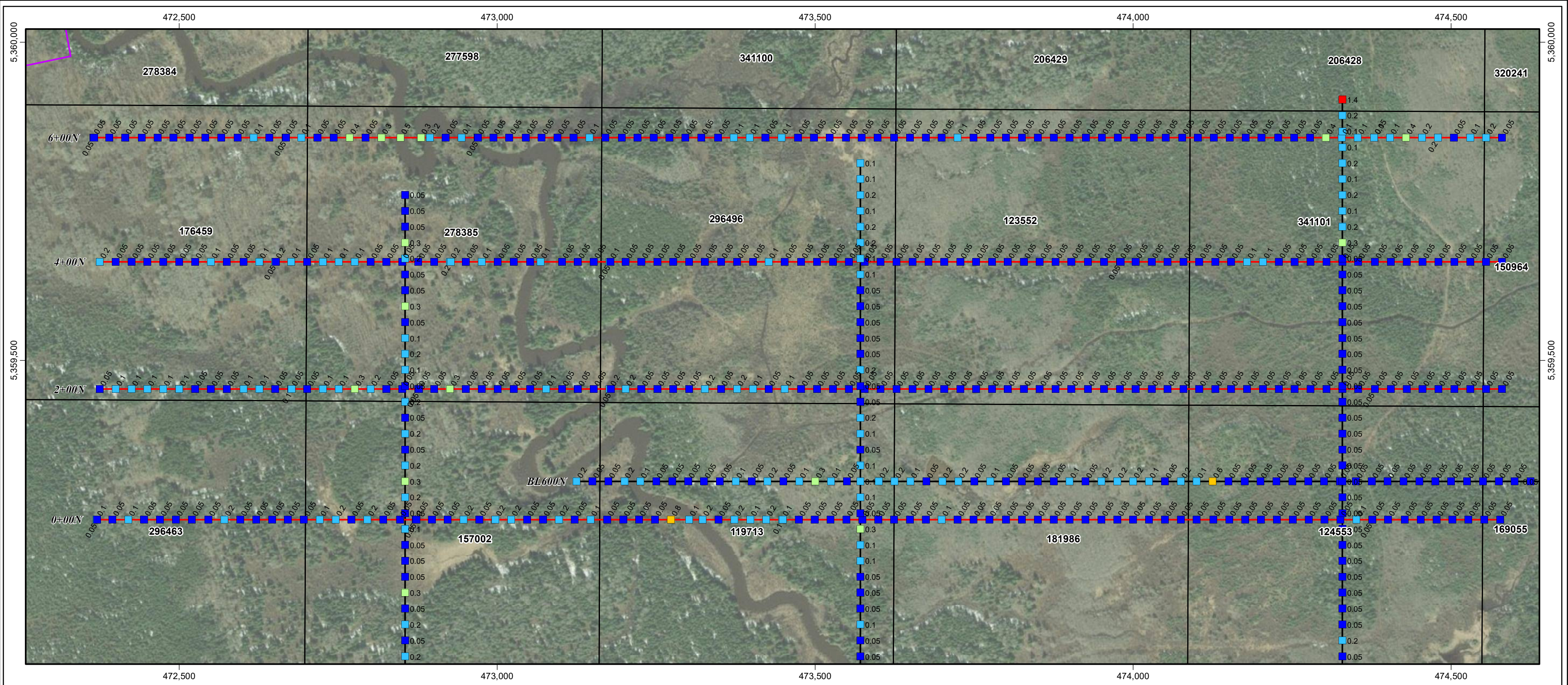
MMI As (ppb As posted)
 Response Ratio by sample media

- >20 RR (red square)
- 10 - 20 (orange square)
- 5 - 10 (light green square)
- 1 - 5 (light blue square)
- 0 - 1 (dark blue square)

UTM Zone 17, NAD83
 1:5,000
 0 50 100 metres

**CENTRAL TIMMINS
 EXPLORATION CORP.
 OGDEN TWP.**

**GRID CT-OG-04
 MMI SAMPLING - As RESULTS
 SATELLITE IMAGE BASE**



LEGEND

Gridline by Year
 2010; 2011 (Black line)
 2018 (Red line)

Claims
 CTEC Boundary (Black outline)
 CTEC Operational Cell Claim (White outline)
 CTEC Patents Outline (Purple outline)

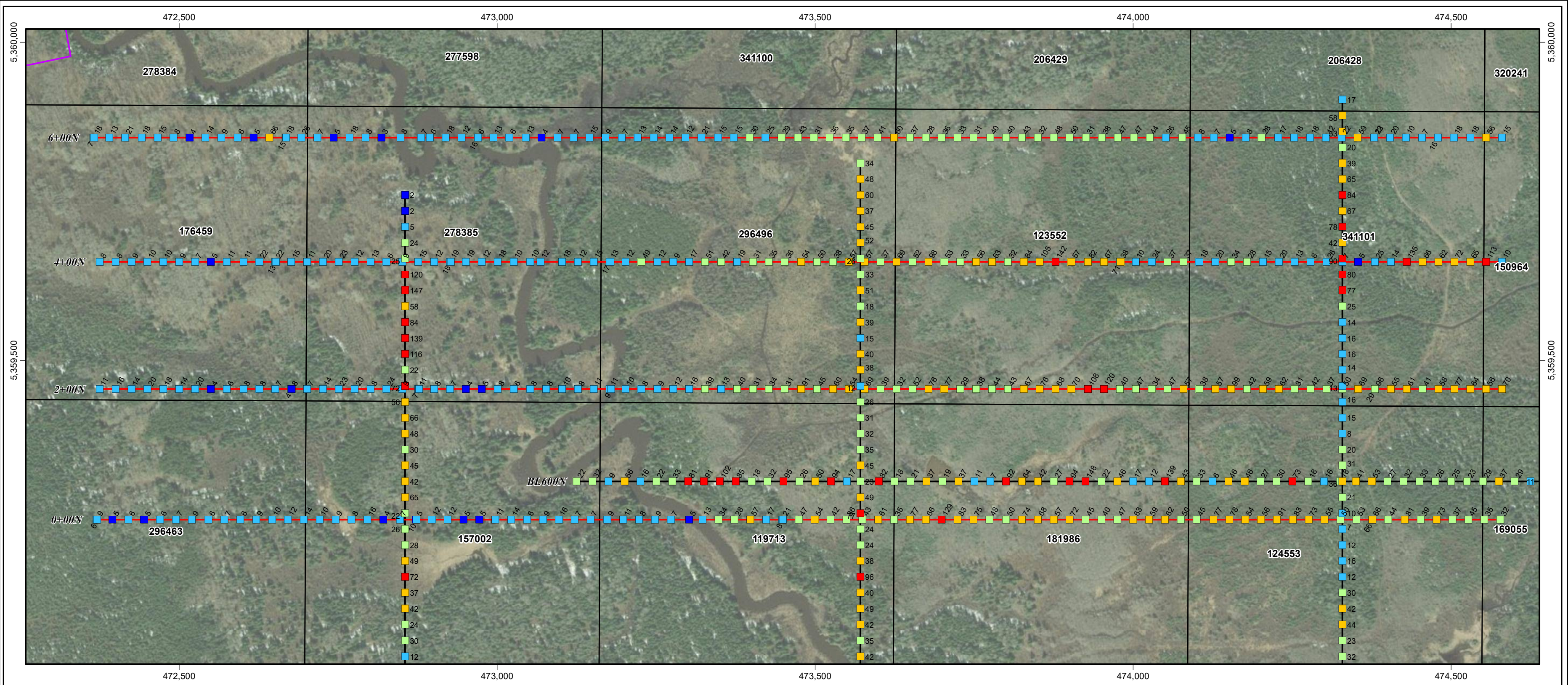
MMI Au (ppb Au posted)
 Response Ratio by sample media

- >20 RR (Red square)
- 10 - 20 (Yellow square)
- 5 - 10 (Light Green square)
- 1 - 5 (Light Blue square)
- 0 - 1 (Dark Blue square)

UTM Zone 17, NAD83
 1:5,000
 0 50 100 metres

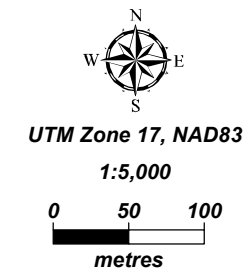
**CENTRAL TIMMINS
 EXPLORATION CORP.
 OGDEN TWP.**

**GRID CT-OG-04
 MMI SAMPLING - Au RESULTS
 SATELLITE IMAGE BASE**



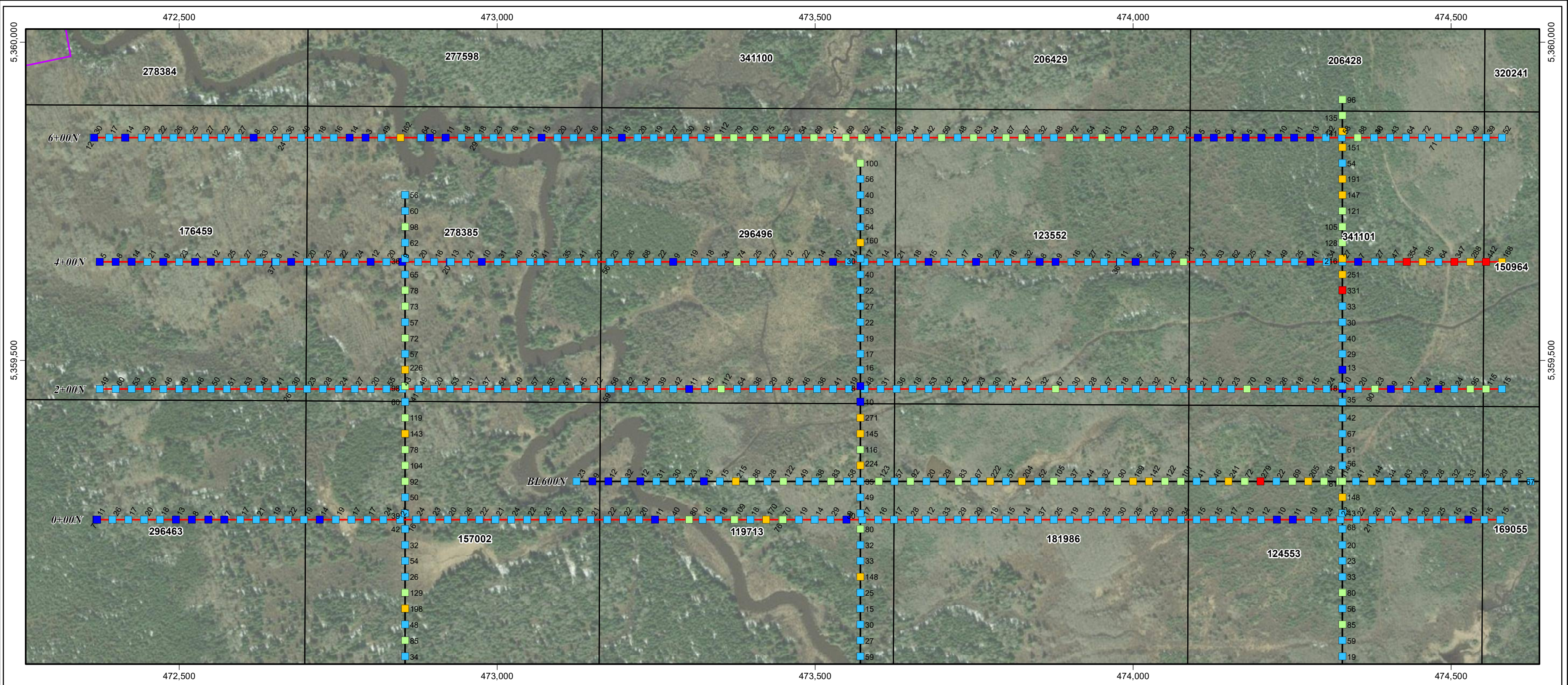
LEGEND

- | | | |
|-------------------------|-------------------------------|-------------------------------|
| Gridline by Year | Claims | MMI Cd (ppb Cd posted) |
| — 2010; 2011 | ▭ CTEC Boundary | ■ >20 RR |
| — 2018 | ▭ CTEC Operational Cell Claim | ■ 10 - 20 |
| | ▭ CTEC Patents Outline | ■ 5 - 10 |
| | | ■ 1 - 5 |
| | | ■ 0 - 1 |
- Response Ratio by sample media*



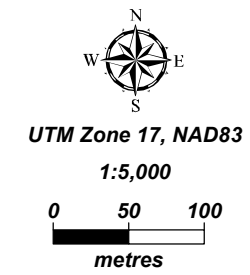
**CENTRAL TIMMINS
EXPLORATION CORP.**
OGDEN TWP.

**GRID CT-OG-04
MMI SAMPLING - Cd RESULTS
SATELLITE IMAGE BASE**



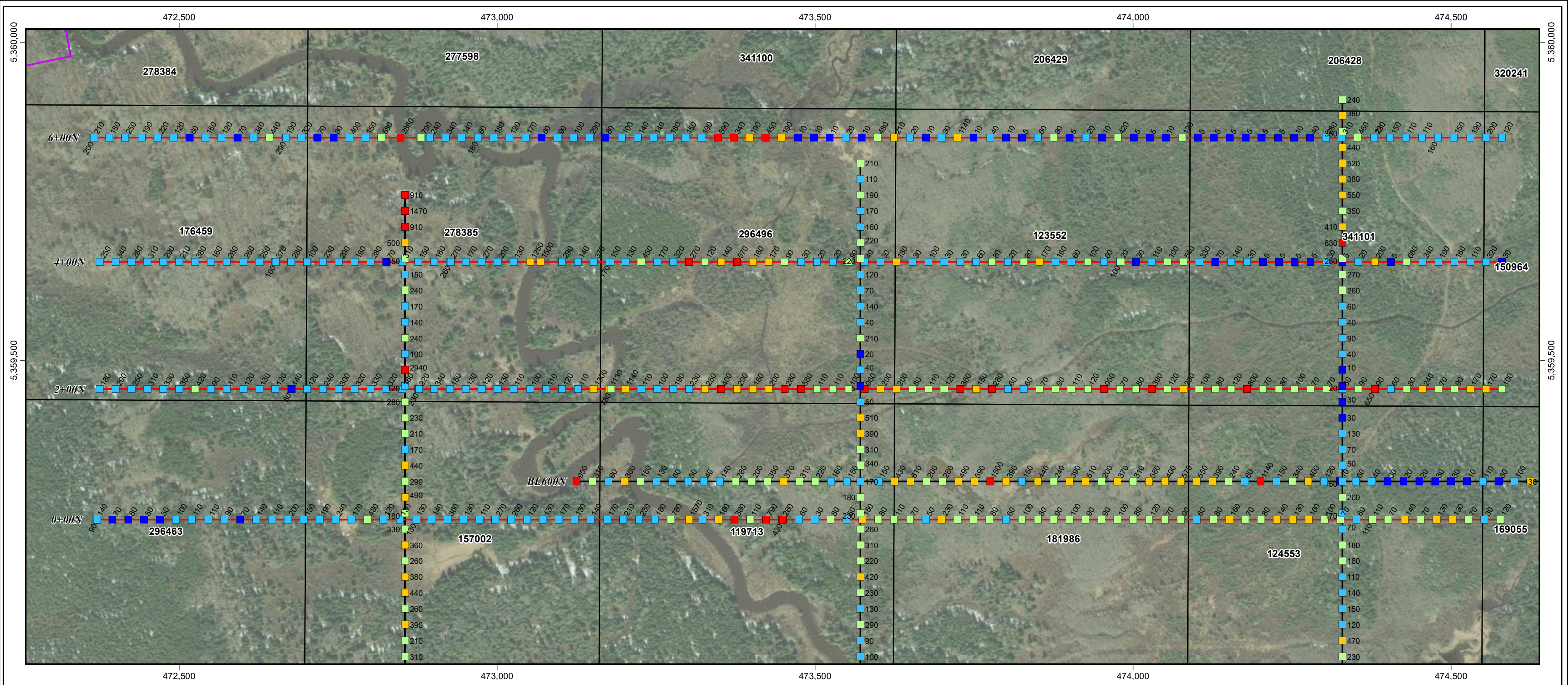
LEGEND

- | | | |
|-------------------------|-------------------------------|-------------------------------|
| Gridline by Year | Claims | MMI Co (ppb Co posted) |
| — 2010; 2011 | ▭ CTEC Boundary | ■ >20 RR |
| — 2018 | ▭ CTEC Operational Cell Claim | ■ 10 - 20 |
| | ▭ CTEC Patents Outline | ■ 5 - 10 |
| | | ■ 1 - 5 |
| | | ■ 0 - 1 |
- Response Ratio by sample media*



**CENTRAL TIMMINS
EXPLORATION CORP.**
OGDEN TWP.

**GRID CT-OG-04
MMI SAMPLING - Co RESULTS
SATELLITE IMAGE BASE**



LEGEND

Gridline by Year
 2010; 2011 (black line)
 2018 (red line)

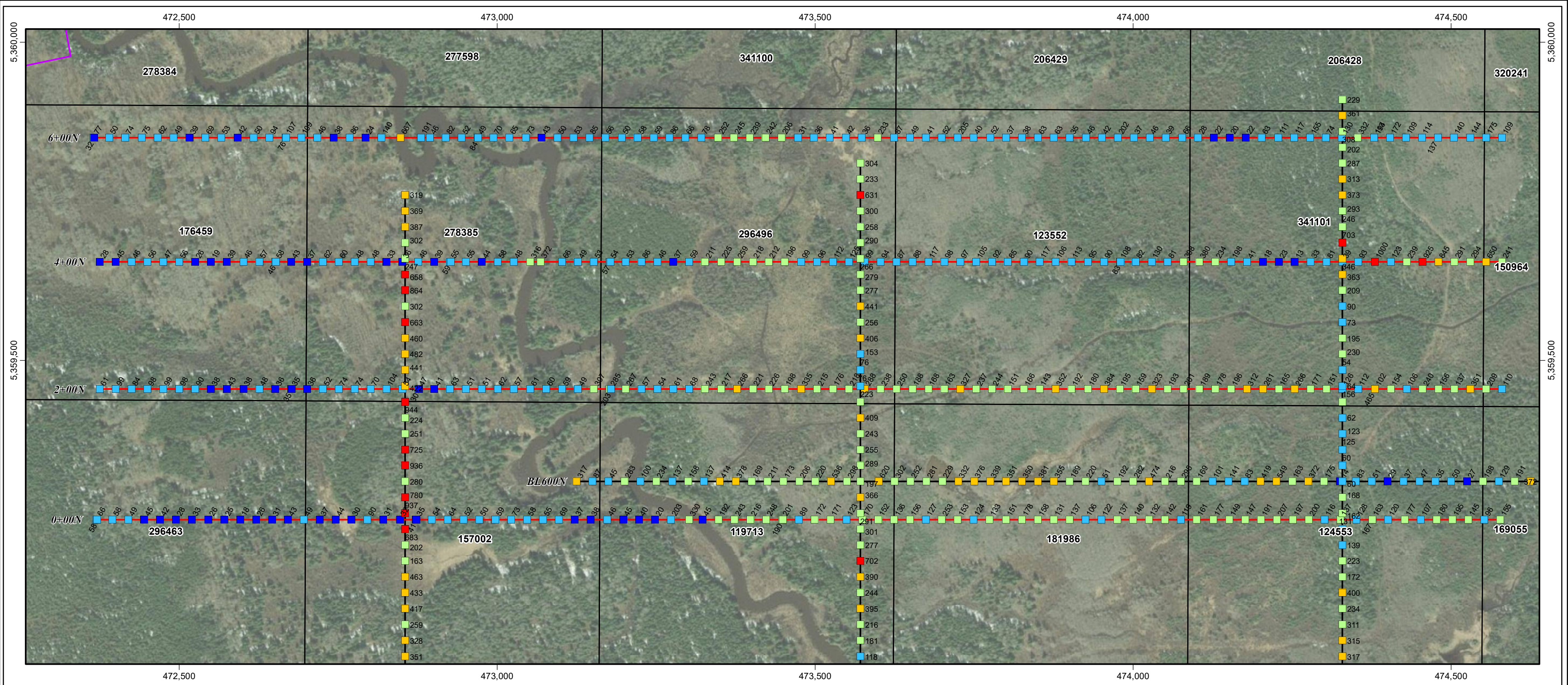
Claims
 CTEC Boundary (black outline)
 CTEC Operational Cell Claim (white outline)
 CTEC Patents Outline (purple outline)

MMI Cu (ppb Cu posted)
 Response Ratio by sample media

- >20 RR (red square)
- 10 - 20 (orange square)
- 5 - 10 (light green square)
- 1 - 5 (blue square)
- 0 - 1 (dark blue square)

UTM Zone 17, NAD83
 1:5,000
 0 50 100 metres

**CENTRAL TIMMINS
 EXPLORATION CORP.
 OGDEN TWP.
 GRID CT-OG-04
 MMI SAMPLING - Cu RESULTS
 SATELLITE IMAGE BASE**



LEGEND

Gridline by Year	Claims	MMI Ni (ppb Ni posted)
— 2010; 2011	▭ CTEC Boundary	■ >20 RR
— 2018	▭ CTEC Operational Cell Claim	■ 10 - 20
	▭ CTEC Patents Outline	■ 5 - 10
		■ 1 - 5
		■ 0 - 1

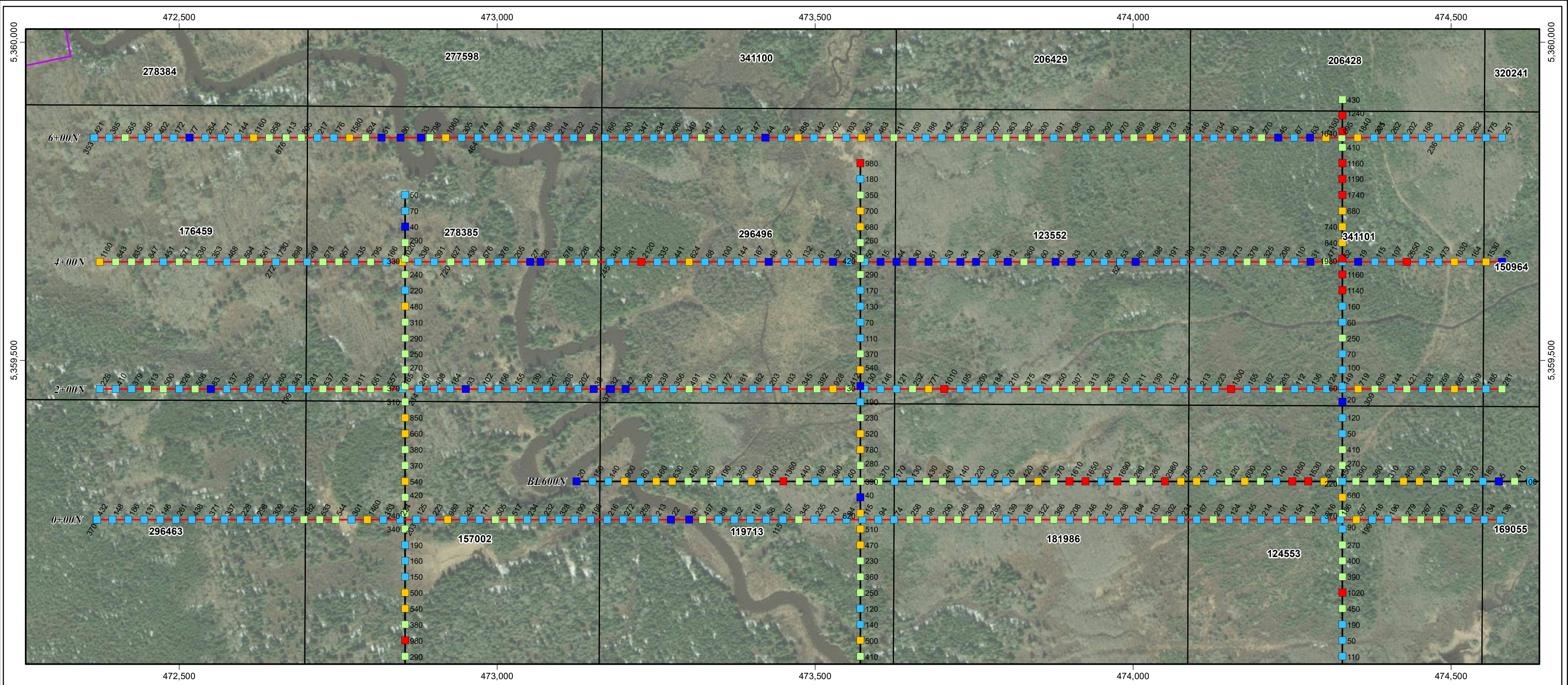
Response Ratio by sample media

UTM Zone 17, NAD83

 1:5,000

 metres

**CENTRAL TIMMINS
 EXPLORATION CORP.**
OGDEN TWP.
GRID CT-OG-04
MMI SAMPLING - Ni RESULTS
SATELLITE IMAGE BASE



LEGEND

Gridline by Year
 2010; 2011 (black line)
 2018 (red line)

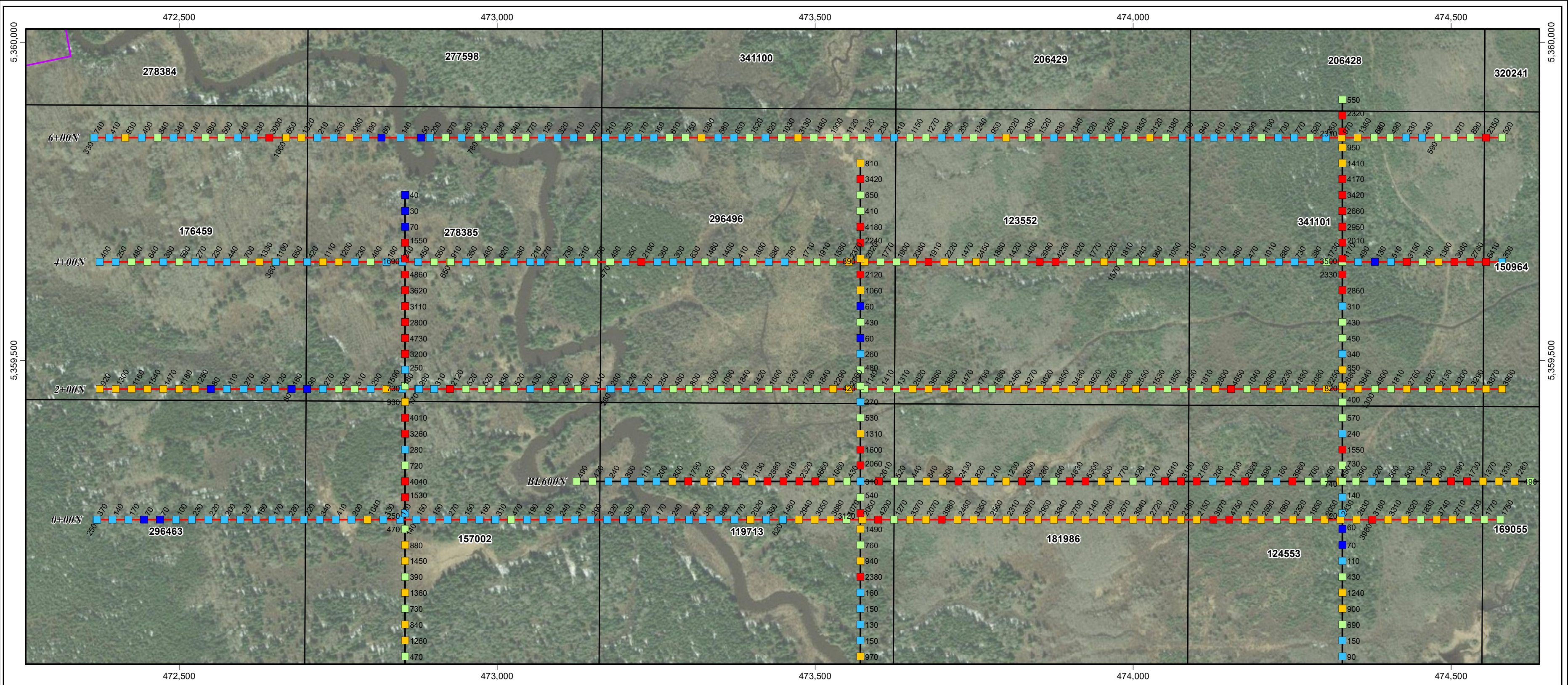
Claims
 CTEC Boundary (thick black line)
 CTEC Operational Cell Claim (thin black line)
 CTEC Patents Outline (purple line)

MMI Pb (ppb Pb posted)
 Response Ratio by sample media

Red	>20 RR
Orange	10 - 20
Yellow	5 - 10
Green	1 - 5
Blue	0 - 1

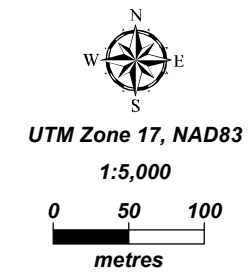
UTM Zone 17, NAD83
 1:5,000
 0 50 100 metres

**CENTRAL TIMMINS
 EXPLORATION CORP.
 OGDEN TWP.
 GRID CT-OG-04
 MMI SAMPLING - Pb RESULTS
 SATELLITE IMAGE BASE**



LEGEND

- | | | |
|-------------------------|-------------------------------|-------------------------------|
| Gridline by Year | Claims | MMI Zn (ppb Zn posted) |
| — 2010; 2011 | ▭ CTEC Boundary | ■ >20 RR |
| — 2018 | ▭ CTEC Operational Cell Claim | ■ 10 - 20 |
| | ▭ CTEC Patents Outline | ■ 5 - 10 |
| | | ■ 1 - 5 |
| | | ■ 0 - 1 |
- Response Ratio by sample media*



**CENTRAL TIMMINS
EXPLORATION CORP.**
OGDEN TWP.
GRID CT-OG-04
MMI SAMPLING - Zn RESULTS
SATELLITE IMAGE BASE



Certificate of Analysis
Work Order : VC183049
[Report File No.: 000031674]

Date: September 25, 2018

To: Charles Gryba
COD SGS MINERALS - GEOCHEM VANCOUVER
 Central Timmins Exploration Corp.
 200 Bay Street, Suite 2350
 Toronto
 ONT M5J 2J2

P.O. No.: Central Timmins Exploration Corp.
Project No.: -
Samples: 86
Received: Aug 21, 2018
Pages: Page 1 to 22
 (Inclusive of Cover Sheet)

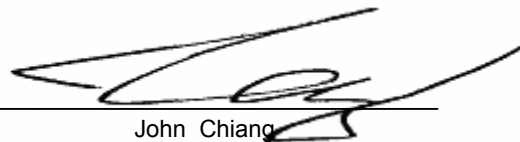
Methods Summary

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

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE 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

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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 .

Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppb	1 ppm	10 ppb	0.1 ppb	10 ppb	0.5 ppb	2 ppm	1 ppb
Line 0N 0E	2.5	287	40	0.1	620	1.9	24	9
Line 0N 0EB	1.5	125	20	<0.1	420	2.3	20	6
Line 0N 25E	1.9	55	<10	<0.1	340	<0.5	14	5
Line 0N 50E	2.1	74	<10	0.1	340	<0.5	15	6
Line 0N 75E	1.8	57	<10	<0.1	400	<0.5	6	5
Line 0N 100E	2.2	72	<10	<0.1	410	<0.5	4	6
Line 0N 125E	3.1	175	20	<0.1	280	<0.5	2	7
Line 0N 150E	2.5	280	30	<0.1	480	1.5	9	9
Line 0N 175E	2.0	191	20	<0.1	550	1.7	17	6
Line 0N 200E	2.1	272	40	0.2	680	1.8	11	7
Line 0N 225E	2.1	87	<10	<0.1	180	<0.5	5	6
Line 0N 250E	4.0	117	<10	<0.1	200	<0.5	7	9
Line 0N 275E	2.5	116	<10	<0.1	200	<0.5	10	10
Line 0N 300E	4.5	144	<10	<0.1	200	0.6	9	12
Line 0N 325E	4.0	154	<10	<0.1	190	1.2	5	14
Line 0N 350E	3.7	102	10	0.1	270	1.3	25	10
Line 0N 375E	5.5	155	20	0.2	380	1.3	27	9
Line 0N 400E	6.7	121	10	<0.1	270	0.5	19	8
Line 0N 425E	3.8	238	100	0.2	480	4.8	50	16
Line 0N 450E	3.7	47	<10	<0.1	260	<0.5	30	4
Line 0N 475E	6.3	56	<10	<0.1	300	<0.5	40	7
Line 0N 500E	4.7	46	<10	<0.1	270	<0.5	37	5
Line 0N 500EB	8.8	56	<10	<0.1	310	<0.5	32	10
Line 0N 525E	12.5	74	<10	<0.1	330	<0.5	21	12
Line 0N 550E	7.7	198	30	<0.1	360	1.5	16	12
Line 0N 575E	2.2	45	<10	0.2	290	<0.5	19	5
Line 0N 600E	2.2	42	<10	<0.1	290	<0.5	19	5
Line 0N 625E	2.7	61	<10	0.2	290	1.3	23	11
Line 0N 650E	3.4	71	<10	0.2	320	1.1	32	14
Line 0N 675E	2.5	43	<10	<0.1	270	<0.5	18	6
Line 0N 700E	4.6	48	<10	<0.1	230	<0.5	20	9
Line 0N 725E	9.6	81	<10	0.2	260	0.5	18	16
Line 0N 750E	4.6	64	<10	<0.1	290	<0.5	21	7
Line 0N 775E	6.3	76	<10	0.1	330	<0.5	17	7
Line 0N 800E	8.1	101	<10	<0.1	310	<0.5	20	9
Line 0N 825E	7.9	159	<10	<0.1	340	<0.5	19	11
Line 0N 850E	6.6	198	10	<0.1	390	0.5	17	8
Line 0N 875E	13.6	141	<10	<0.1	160	<0.5	5	9
Line 0N 900E	2.8	10	<10	0.8	490	<0.5	280	7
Line 0N 925E	3.7	14	<10	0.1	350	<0.5	313	5

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppb	1 ppm	10 ppb	0.1 ppb	10 ppb	0.5 ppb	2 ppm	1 ppb
Line 0N 950E	6.3	263	20	0.2	420	1.2	17	13
Line 0N 975E	1.9	35	<10	<0.1	410	<0.5	327	34
Line 0N 1000E	2.2	50	<10	0.2	540	<0.5	286	28
Line 0N 1025E	2.2	50	20	0.1	510	<0.5	388	57
Line 0N 1050E	3.0	43	<10	0.2	580	<0.5	447	17
Line 0N 1075E	0.6	50	10	0.1	540	<0.5	227	21
Line 0N 1075B	<0.5	39	<10	0.1	470	<0.5	248	8
Line 0N 1100E	<0.5	70	<10	<0.1	210	<0.5	194	47
Line 0N 1125E	<0.5	83	<10	<0.1	290	<0.5	239	54
Line 0N 1150E	0.6	79	<10	<0.1	290	<0.5	310	42
Line 0N 1175E	<0.5	85	<10	<0.1	180	<0.5	250	36
Line 0N 1200E	1.0	82	<10	<0.1	350	<0.5	312	43
Line 0N 1225E	<0.5	82	<10	<0.1	280	<0.5	270	61
Line 0N 1250E	0.7	69	<10	<0.1	280	<0.5	255	35
Line 0N 1275E	<0.5	85	<10	<0.1	360	<0.5	173	77
Line 0N 1300E	<0.5	83	<10	<0.1	240	<0.5	202	66
Line 0N 1325E	2.3	99	<10	0.1	660	<0.5	250	129
Line 0N 1350E	<0.5	110	<10	<0.1	350	<0.5	222	83
Line 0N 1375E	<0.5	106	<10	<0.1	330	<0.5	227	75
Line 0N 1400E	0.8	98	<10	<0.1	350	<0.5	213	48
Line 0N 1425E	0.6	97	<10	<0.1	350	<0.5	272	50
Line 0N 1450E	1.1	83	<10	<0.1	490	<0.5	323	74
Line 0N 1475E	<0.5	103	<10	<0.1	330	<0.5	208	68
Line 0N 1500E	0.9	95	<10	<0.1	390	<0.5	190	57
Line 0N 1525E	1.4	96	<10	<0.1	350	<0.5	176	72
Line 0N 1550E	<0.5	86	<10	<0.1	280	<0.5	186	45
Line 0N 1575E	<0.5	85	<10	<0.1	300	<0.5	202	40
Line 0N 1600E	<0.5	93	<10	<0.1	300	<0.5	211	47
Line 0N 1625E	0.5	90	<10	<0.1	320	<0.5	225	63
Line 0N 1650E	0.5	90	<10	<0.1	330	<0.5	186	59
Line 0N 1675E	0.7	92	<10	<0.1	330	<0.5	209	62
Line 0N 1700E	<0.5	93	<10	<0.1	240	<0.5	186	50
Line 0N 1725E	<0.5	89	<10	<0.1	300	<0.5	274	45
Line 0N 1750E	<0.5	97	<10	<0.1	360	<0.5	269	77
Line 0N 1775E	0.6	100	<10	<0.1	290	<0.5	237	78
Line 0N 1800E	1.1	98	<10	<0.1	260	<0.5	265	54
Line 0N 1825E	2.4	85	<10	<0.1	550	<0.5	343	56
Line 0N 1850E	4.6	83	<10	<0.1	490	<0.5	354	91
Line 0N 1875E	3.4	81	<10	<0.1	380	<0.5	357	83
Line 0N 1900E	2.2	106	<10	<0.1	620	<0.5	250	73

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppm	GE_MMI_M 10 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 2 ppm	GE_MMI_M 1 ppb
Line 0N 1925E	0.5	85	<10	<0.1	280	<0.5	192	55
Line 0N 1950E	<0.5	82	<10	<0.1	310	<0.5	244	50
Line 0N 1975E	<0.5	78	<10	0.1	270	<0.5	219	53
Line 0N 2000E	0.5	101	<10	<0.1	340	<0.5	236	66
Line 0N 2000EB	0.6	90	<10	<0.1	370	<0.5	238	66
Line 0N 2025E	<0.5	83	<10	<0.1	260	<0.5	247	44
*Rep Line 0N 475E	6.9	52	<10	<0.1	300	<0.5	39	7
*Rep Line 0N 675E	2.5	42	<10	0.1	240	<0.5	20	7
*Rep Line 0N 1050E	3.8	35	<10	0.1	520	<0.5	450	20
*Rep Line 0N 1375E	<0.5	105	<10	<0.1	280	<0.5	234	78
*Rep Line 0N 1725E	<0.5	88	<10	<0.1	280	<0.5	265	47
*Std MMISRM24	18.3	31	<10	2.9	110	<0.5	58	5
*Std MMISRM19	27.9	23	<10	4.5	1280	<0.5	714	39
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1

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Element Method Det.Lim. Units	Ce GE_MMI_M 2 ppb	Co GE_MMI_M 1 ppb	Cr GE_MMI_M 100 ppb	Cs GE_MMI_M 0.2 ppb	Cu GE_MMI_M 10 ppb	Dy GE_MMI_M 0.5 ppb	Er GE_MMI_M 0.2 ppb	Eu GE_MMI_M 0.2 ppb
Line 0N 0E	63	11	100	1.6	140	4.4	2.3	1.9
Line 0N 0EB	38	7	<100	0.4	90	3.1	1.5	1.0
Line 0N 25E	203	26	<100	3.1	70	20.6	9.0	9.6
Line 0N 50E	196	17	<100	2.8	80	19.9	8.7	10.1
Line 0N 75E	224	20	<100	3.2	50	21.9	9.3	11.1
Line 0N 100E	249	18	<100	3.3	50	22.9	9.8	12.2
Line 0N 125E	133	13	<100	3.6	100	12.3	5.4	6.6
Line 0N 150E	77	8	100	2.0	110	5.0	2.6	2.6
Line 0N 175E	46	7	<100	0.9	110	3.4	1.6	1.4
Line 0N 200E	59	7	100	1.8	90	4.1	2.1	1.8
Line 0N 225E	98	17	<100	4.2	70	10.4	4.6	5.6
Line 0N 250E	118	21	<100	4.2	140	13.9	6.6	7.2
Line 0N 275E	100	19	<100	4.0	110	12.2	5.7	5.8
Line 0N 300E	112	22	<100	4.6	200	13.9	6.8	6.5
Line 0N 325E	103	19	<100	5.0	150	10.2	5.0	4.9
Line 0N 350E	258	14	<100	2.8	190	19.4	8.2	9.4
Line 0N 375E	431	19	100	3.2	240	23.0	9.6	12.0
Line 0N 400E	528	17	<100	3.5	170	26.5	11.4	14.8
Line 0N 425E	69	17	200	2.9	480	4.7	1.9	1.7
Line 0N 450E	211	24	<100	3.5	120	20.7	8.8	11.0
Line 0N 475E	188	21	<100	3.2	130	18.0	7.4	9.6
Line 0N 500E	194	24	<100	3.4	130	20.6	8.2	10.7
Line 0N 500EB	202	16	<100	3.8	130	17.5	7.4	10.0
Line 0N 525E	265	23	<100	3.6	140	19.6	8.3	11.1
Line 0N 550E	192	20	100	2.4	360	11.0	5.1	5.5
Line 0N 575E	247	26	<100	2.3	130	22.1	8.4	9.2
Line 0N 600E	225	22	<100	2.3	110	20.0	8.0	8.6
Line 0N 625E	193	21	<100	3.0	270	19.0	8.1	8.1
Line 0N 650E	185	24	<100	3.2	260	19.5	8.1	8.3
Line 0N 675E	184	22	<100	3.3	120	18.4	7.8	8.2
Line 0N 700E	178	23	<100	3.4	130	16.4	6.8	7.9
Line 0N 725E	247	27	<100	4.0	170	22.1	9.1	10.8
Line 0N 750E	195	20	<100	2.9	130	18.2	7.4	9.0
Line 0N 775E	249	21	<100	3.1	140	20.1	8.7	9.7
Line 0N 800E	290	22	<100	3.2	170	22.0	9.9	10.9
Line 0N 825E	308	22	<100	2.7	210	20.0	9.3	9.5
Line 0N 850E	277	20	100	2.8	230	16.5	7.4	8.1
Line 0N 875E	157	11	<100	3.6	180	17.1	8.4	9.4
Line 0N 900E	46	40	<100	0.7	780	3.2	1.8	1.3
Line 0N 925E	34	80	<100	0.8	1570	4.0	2.5	1.5

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Element Method Det.Lim. Units	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	2	1	100	0.2	10	0.5	0.2	0.2
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Line 0N 950E	220	16	100	2.5	310	10.2	5.0	4.3
Line 0N 975E	102	18	<100	0.4	160	5.4	2.8	1.7
Line 0N 1000E	112	109	<100	0.8	380	6.9	4.1	2.2
Line 0N 1025E	103	18	<100	0.5	110	6.4	3.8	2.1
Line 0N 1050E	215	170	<100	0.6	790	7.9	4.7	3.2
Line 0N 1075E	68	70	<100	0.8	260	5.2	3.1	1.5
Line 0N 1075B	87	76	<100	0.6	430	5.3	3.0	1.6
Line 0N 1100E	37	19	<100	0.3	60	7.1	4.5	1.5
Line 0N 1125E	47	14	<100	<0.2	30	7.0	4.0	1.5
Line 0N 1150E	36	29	<100	0.2	80	5.1	3.6	1.1
Line 0N 1175E	52	9	<100	<0.2	50	6.9	3.8	1.6
Line 0N 1200E	54	17	<100	0.4	150	7.8	5.1	1.6
Line 0N 1225E	41	16	<100	0.2	80	7.3	4.5	1.2
Line 0N 1250E	36	17	<100	0.3	110	5.7	3.6	1.1
Line 0N 1275E	47	28	<100	0.7	70	8.6	5.5	1.5
Line 0N 1300E	69	12	<100	0.3	50	7.9	4.9	1.8
Line 0N 1325E	112	33	<100	0.9	230	14.9	8.9	2.9
Line 0N 1350E	67	29	<100	0.7	110	12.8	8.2	2.2
Line 0N 1375E	67	29	<100	1.0	110	12.0	8.4	2.2
Line 0N 1400E	66	18	<100	0.5	80	13.1	8.0	2.3
Line 0N 1425E	62	15	<100	0.7	60	10.0	6.3	2.1
Line 0N 1450E	72	14	<100	0.6	100	8.8	5.2	2.0
Line 0N 1475E	63	37	<100	0.8	80	11.8	7.1	2.1
Line 0N 1500E	60	25	<100	0.6	90	13.7	8.4	2.3
Line 0N 1525E	66	19	<100	0.6	100	14.4	8.5	2.4
Line 0N 1550E	46	33	<100	0.5	90	10.3	6.8	1.7
Line 0N 1575E	48	25	<100	0.5	90	9.5	5.7	1.7
Line 0N 1600E	49	30	<100	0.8	100	11.8	6.9	1.9
Line 0N 1625E	52	25	<100	0.6	80	9.4	5.8	1.9
Line 0N 1650E	48	26	<100	0.6	120	13.1	8.2	2.0
Line 0N 1675E	51	29	<100	0.5	70	11.1	6.9	1.9
Line 0N 1700E	50	34	<100	1.0	90	9.8	6.5	1.9
Line 0N 1725E	55	15	<100	0.6	60	9.0	5.3	1.9
Line 0N 1750E	75	15	<100	0.8	80	11.0	7.1	2.2
Line 0N 1775E	48	17	<100	0.2	160	10.8	7.8	1.7
Line 0N 1800E	75	13	<100	0.5	70	10.8	6.2	2.2
Line 0N 1825E	72	12	<100	0.7	80	8.8	4.8	2.2
Line 0N 1850E	92	10	<100	0.6	140	9.2	5.4	2.3
Line 0N 1875E	90	11	<100	0.6	130	7.9	4.9	2.1
Line 0N 1900E	76	19	<100	1.2	160	18.3	12.1	2.7

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Element Method Det.Lim. Units	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	2	1	100	0.2	10	0.5	0.2	0.2
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Line 0N 1925E	45	24	<100	0.5	100	10.7	6.8	1.8
Line 0N 1950E	52	22	<100	0.5	70	7.9	4.9	1.6
Line 0N 1975E	47	22	<100	0.5	60	7.8	4.8	1.6
Line 0N 2000E	68	26	<100	0.9	110	12.9	8.7	2.5
Line 0N 2000EB	59	21	<100	0.8	110	9.5	6.1	1.8
Line 0N 2025E	50	27	<100	0.4	70	7.3	4.6	1.6
*Rep Line 0N 475E	193	20	<100	3.4	130	18.1	7.4	10.0
*Rep Line 0N 675E	172	23	<100	3.1	130	17.8	7.3	7.9
*Rep Line 0N 1050E	169	140	<100	0.6	690	6.5	3.8	2.7
*Rep Line 0N 1375E	69	27	<100	0.9	150	11.9	7.8	2.3
*Rep Line 0N 1725E	53	14	<100	0.5	60	8.8	5.2	1.9
*Std MMISRM24	29	14	<100	8.9	270	2.7	1.2	0.9
*Std MMISRM19	18	343	<100	4.4	2250	12.1	6.4	2.4
*Blk BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2
*Blk BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_M 1 ppm	GE_MMI_M 0.5 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line ON 0E	76	78.5	5.0	2	0.4	17.3	37	8
Line ON 0EB	31	19.3	3.3	<1	0.3	20.3	22	2
Line ON 25E	8	15.6	32.6	<1	<0.1	6.6	82	<1
Line ON 50E	14	17.9	30.8	<1	<0.1	7.2	77	<1
Line ON 75E	8	18.4	32.9	<1	<0.1	5.8	90	<1
Line ON 100E	11	20.9	35.5	<1	<0.1	6.0	106	<1
Line ON 125E	31	31.8	15.7	<1	0.1	6.9	62	<1
Line ON 150E	64	60.0	6.1	1	0.3	9.2	41	3
Line ON 175E	56	46.8	3.7	<1	0.3	11.4	26	4
Line ON 200E	86	96.3	4.5	<1	0.4	11.6	37	9
Line ON 225E	16	21.0	14.4	<1	<0.1	9.6	46	<1
Line ON 250E	22	22.7	19.7	<1	0.1	11.9	66	<1
Line ON 275E	22	19.9	15.8	<1	0.1	10.8	51	<1
Line ON 300E	31	25.6	17.3	<1	0.2	14.3	62	<1
Line ON 325E	42	26.6	12.6	<1	0.2	15.6	50	<1
Line ON 350E	42	17.1	31.4	<1	0.3	15.4	112	<1
Line ON 375E	69	31.5	36.5	<1	0.4	16.3	203	3
Line ON 400E	43	25.4	45.7	<1	0.2	13.2	243	2
Line ON 425E	179	70.3	5.1	1	1.2	22.2	37	13
Line ON 450E	7	9.0	35.1	<1	<0.1	10.9	87	<1
Line ON 475E	11	9.2	29.5	<1	<0.1	12.5	81	<1
Line ON 500E	5	8.0	34.1	<1	<0.1	11.8	78	<1
Line ON 500EB	8	9.5	27.7	<1	<0.1	12.3	95	<1
Line ON 525E	14	12.8	32.4	<1	<0.1	13.0	128	<1
Line ON 550E	88	40.7	14.4	<1	0.6	15.5	93	4
Line ON 575E	9	7.3	34.1	<1	0.1	15.1	87	<1
Line ON 600E	8	6.3	31.3	<1	0.1	16.2	71	<1
Line ON 625E	23	9.9	29.3	<1	0.4	20.9	60	<1
Line ON 650E	24	10.4	27.7	<1	0.4	22.3	63	<1
Line ON 675E	10	8.1	27.3	<1	0.2	18.1	63	<1
Line ON 700E	10	8.9	25.3	<1	0.2	17.7	67	<1
Line ON 725E	17	11.5	32.0	<1	0.2	17.6	100	<1
Line ON 750E	12	10.4	31.0	<1	0.1	11.2	79	<1
Line ON 775E	15	13.5	32.0	<1	0.1	12.1	113	<1
Line ON 800E	20	15.8	33.9	<1	0.1	12.8	138	<1
Line ON 825E	39	22.1	29.9	<1	0.2	15.4	151	2
Line ON 850E	47	26.3	23.2	<1	0.2	15.0	127	2
Line ON 875E	21	25.0	22.4	<1	0.1	14.7	83	<1
Line ON 900E	22	1.1	5.1	<1	<0.1	5.2	21	4
Line ON 925E	35	1.2	6.3	<1	<0.1	7.6	11	6

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	1 ppm	0.5 ppb	0.5 ppb	1 ppb	0.1 ppb	0.5 ppm	1 ppb	1 ppb
Line 0N 950E	77	29.5	13.3	1	0.4	18.8	104	4
Line 0N 975E	60	2.0	7.1	<1	<0.1	9.3	33	4
Line 0N 1000E	126	2.7	8.3	<1	<0.1	5.5	41	7
Line 0N 1025E	48	2.6	8.5	<1	<0.1	4.7	32	5
Line 0N 1050E	111	2.2	12.7	<1	<0.1	12.8	80	6
Line 0N 1075E	173	3.9	5.9	<1	0.2	3.7	24	13
Line 0N 1075B	126	2.8	6.4	<1	<0.1	3.4	32	7
Line 0N 1100E	107	4.2	6.3	<1	0.1	1.7	10	4
Line 0N 1125E	89	3.7	6.3	<1	<0.1	3.6	13	<1
Line 0N 1150E	62	1.9	4.8	<1	<0.1	4.7	12	5
Line 0N 1175E	58	3.3	6.4	<1	<0.1	2.7	16	2
Line 0N 1200E	99	2.3	7.2	<1	<0.1	6.0	18	7
Line 0N 1225E	92	2.3	5.6	<1	<0.1	4.0	14	3
Line 0N 1250E	122	2.2	4.9	<1	<0.1	3.8	13	4
Line 0N 1275E	146	5.3	6.7	<1	<0.1	1.8	12	6
Line 0N 1300E	96	3.7	7.8	<1	<0.1	2.9	17	3
Line 0N 1325E	119	4.3	12.9	<1	0.1	4.3	34	11
Line 0N 1350E	93	5.0	9.8	<1	<0.1	4.1	18	7
Line 0N 1375E	87	6.0	9.5	<1	0.1	4.0	16	7
Line 0N 1400E	110	6.7	9.9	<1	0.1	1.8	17	7
Line 0N 1425E	73	4.7	8.5	<1	<0.1	3.4	17	7
Line 0N 1450E	76	3.0	8.3	<1	<0.1	7.5	20	7
Line 0N 1475E	98	6.4	9.4	<1	<0.1	2.4	16	8
Line 0N 1500E	141	7.3	10.6	<1	0.1	1.7	15	9
Line 0N 1525E	143	6.7	10.7	<1	0.1	2.0	17	8
Line 0N 1550E	162	6.2	8.1	<1	<0.1	1.2	12	7
Line 0N 1575E	145	5.6	7.3	<1	<0.1	2.2	14	7
Line 0N 1600E	109	5.8	9.6	<1	0.1	2.0	13	9
Line 0N 1625E	112	5.4	8.3	<1	<0.1	3.2	14	8
Line 0N 1650E	154	5.3	8.9	<1	0.1	1.8	13	10
Line 0N 1675E	148	6.0	9.1	<1	0.1	3.0	13	7
Line 0N 1700E	115	5.3	8.5	<1	0.1	2.3	13	7
Line 0N 1725E	72	4.1	8.1	<1	<0.1	3.4	15	6
Line 0N 1750E	73	5.1	9.7	<1	0.1	3.0	17	9
Line 0N 1775E	119	3.5	8.2	<1	<0.1	2.1	16	3
Line 0N 1800E	65	4.2	9.7	<1	<0.1	1.7	19	6
Line 0N 1825E	56	3.3	8.5	<1	<0.1	4.3	19	15
Line 0N 1850E	47	2.5	9.7	<1	<0.1	5.6	26	9
Line 0N 1875E	42	2.5	8.7	<1	<0.1	5.7	25	11
Line 0N 1900E	114	3.6	12.8	<1	0.1	2.4	21	12

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_M 1 ppm	GE_MMI_M 0.5 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 0N 1925E	144	4.5	8.5	<1	0.1	2.6	13	10
Line 0N 1950E	107	3.7	7.3	<1	<0.1	4.4	14	7
Line 0N 1975E	116	4.4	6.7	<1	0.1	3.6	12	6
Line 0N 2000E	72	5.0	11.3	<1	<0.1	3.6	19	9
Line 0N 2000EB	108	4.3	8.0	<1	0.1	5.2	17	10
Line 0N 2025E	93	3.9	6.6	<1	<0.1	2.1	12	4
*Rep Line 0N 475E	9	8.9	29.4	<1	<0.1	12.0	84	<1
*Rep Line 0N 675E	8	7.3	27.0	<1	0.1	18.3	56	<1
*Rep Line 0N 1050E	89	1.9	10.0	<1	<0.1	12.5	62	5
*Rep Line 0N 1375E	80	6.7	10.1	<1	0.1	3.0	18	6
*Rep Line 0N 1725E	71	4.1	8.5	<1	<0.1	2.7	15	6
*Std MMISRM24	6	2.1	3.8	4	<0.1	11.7	11	<1
*Std MMISRM19	6	0.5	14.0	2	<0.1	99.4	4	2
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	100	2	0.5	1	5	0.1	5
	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppb
Line 0N 0E	3.0	1100	5	12.1	29	66	6.3	432
Line 0N 0EB	2.2	800	4	5.0	18	58	6.1	370
Line 0N 25E	<0.5	1700	4	<0.5	165	58	0.6	148
Line 0N 50E	0.6	1200	4	<0.5	162	49	0.7	186
Line 0N 75E	<0.5	700	4	<0.5	181	45	0.5	131
Line 0N 100E	<0.5	600	4	<0.5	193	42	0.5	146
Line 0N 125E	<0.5	500	3	1.3	85	28	1.6	261
Line 0N 150E	1.7	800	3	7.2	36	33	4.3	438
Line 0N 175E	2.2	900	4	8.3	21	26	5.8	371
Line 0N 200E	3.0	700	5	13.9	27	25	7.9	337
Line 0N 225E	<0.5	1700	8	<0.5	77	18	0.7	228
Line 0N 250E	0.5	1300	5	0.8	106	26	1.1	298
Line 0N 275E	<0.5	1400	6	0.9	84	31	1.3	309
Line 0N 300E	0.7	1100	4	1.5	100	43	1.8	381
Line 0N 325E	0.6	800	3	1.7	74	49	2.0	482
Line 0N 350E	1.5	2100	5	2.5	185	37	1.4	533
Line 0N 375E	2.1	2400	5	6.8	247	44	3.1	544
Line 0N 400E	0.9	1200	5	4.1	310	30	2.1	301
Line 0N 425E	5.4	4100	8	18.2	30	90	7.5	1460
Line 0N 450E	0.9	900	7	<0.5	200	31	0.6	153
Line 0N 475E	1.2	1400	5	<0.5	162	32	0.6	224
Line 0N 500E	1.0	800	7	<0.5	181	35	0.5	125
Line 0N 500EB	1.0	1300	4	<0.5	169	41	0.5	203
Line 0N 525E	0.9	1300	3	<0.5	191	54	0.7	223
Line 0N 550E	1.6	800	3	5.9	92	64	2.4	989
Line 0N 575E	1.2	2700	4	<0.5	178	52	1.4	204
Line 0N 600E	1.3	2200	4	<0.5	164	50	1.4	171
Line 0N 625E	1.9	2000	5	0.9	146	59	1.8	505
Line 0N 650E	2.9	2300	4	1.0	144	73	1.6	517
Line 0N 675E	1.3	1200	4	<0.5	149	58	1.0	234
Line 0N 700E	1.1	1000	5	<0.5	141	55	0.8	232
Line 0N 725E	1.1	1200	4	<0.5	181	69	1.0	328
Line 0N 750E	1.2	1800	4	<0.5	165	37	0.8	199
Line 0N 775E	0.9	1800	4	<0.5	191	38	0.9	198
Line 0N 800E	1.1	2200	3	0.8	200	46	1.2	216
Line 0N 825E	1.5	1700	3	3.1	181	45	2.3	272
Line 0N 850E	1.7	1700	2	4.3	146	40	3.0	259
Line 0N 875E	<0.5	400	3	0.7	127	20	1.2	213
Line 0N 900E	33.7	2100	<2	1.0	34	203	0.6	22
Line 0N 925E	43.8	6000	4	1.4	31	330	0.4	30

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppm	100 ppb	2 ppb	0.5 ppb	1 ppb	5 ppb	0.1 ppm	5 ppb
Line 0N 950E	2.3	1500	2	6.3	88	45	4.3	497
Line 0N 975E	70.9	5300	3	0.9	47	192	0.5	89
Line 0N 1000E	56.9	13200	5	1.5	56	243	0.6	52
Line 0N 1025E	80.5	5300	3	0.8	47	216	0.4	116
Line 0N 1050E	85.8	23200	12	2.7	96	248	0.8	58
Line 0N 1075E	41.8	14200	4	1.5	33	201	0.6	157
Line 0N 1075B	61.9	12500	6	1.3	42	190	0.4	115
Line 0N 1100E	28.9	2700	<2	<0.5	20	89	0.4	345
Line 0N 1125E	36.1	700	7	<0.5	23	172	0.6	235
Line 0N 1150E	49.9	1500	6	<0.5	18	171	0.6	70
Line 0N 1175E	32.0	1200	6	<0.5	27	123	0.9	94
Line 0N 1200E	47.4	2700	8	<0.5	27	170	0.8	115
Line 0N 1225E	44.6	2200	4	<0.5	19	152	0.7	94
Line 0N 1250E	42.2	4100	5	<0.5	20	136	0.7	74
Line 0N 1275E	31.4	5200	3	<0.5	22	156	0.7	258
Line 0N 1300E	30.6	2300	4	<0.5	29	127	0.8	98
Line 0N 1325E	42.8	4500	5	0.9	51	253	0.8	290
Line 0N 1350E	37.9	4000	4	<0.5	31	153	1.2	248
Line 0N 1375E	37.3	5200	<2	0.5	29	124	1.5	230
Line 0N 1400E	36.9	2000	4	<0.5	34	133	0.7	285
Line 0N 1425E	41.3	2300	4	<0.5	32	151	1.0	139
Line 0N 1450E	53.8	2200	8	<0.5	34	178	0.6	185
Line 0N 1475E	33.8	3900	3	<0.5	31	158	1.0	322
Line 0N 1500E	32.0	2400	4	<0.5	32	131	0.7	366
Line 0N 1525E	29.6	1700	3	<0.5	34	137	1.0	208
Line 0N 1550E	29.9	2600	4	<0.5	23	106	0.9	246
Line 0N 1575E	31.4	2700	6	<0.5	25	122	1.0	215
Line 0N 1600E	32.6	3000	3	<0.5	27	137	1.0	238
Line 0N 1625E	35.0	2500	3	<0.5	26	140	0.9	184
Line 0N 1650E	31.7	2600	2	<0.5	27	132	0.7	183
Line 0N 1675E	34.8	2300	2	<0.5	26	142	0.9	302
Line 0N 1700E	26.6	5800	3	<0.5	26	119	1.2	234
Line 0N 1725E	40.1	1900	4	<0.5	29	161	1.0	187
Line 0N 1750E	41.8	2500	<2	<0.5	32	177	1.0	293
Line 0N 1775E	43.0	1900	5	<0.5	27	149	0.7	124
Line 0N 1800E	38.4	1500	3	<0.5	35	147	0.8	145
Line 0N 1825E	52.0	1100	6	<0.5	35	191	0.5	214
Line 0N 1850E	55.0	1000	4	<0.5	41	207	0.6	191
Line 0N 1875E	53.6	1300	4	0.6	37	197	0.7	154
Line 0N 1900E	45.8	1900	<2	<0.5	39	200	0.6	374

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	100	2	0.5	1	5	0.1	5
	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppb
Line 0N 1925E	29.2	3600	<2	<0.5	26	116	0.9	216
Line 0N 1950E	36.3	2800	4	<0.5	25	137	0.9	186
Line 0N 1975E	32.1	2500	4	<0.5	23	128	0.9	507
Line 0N 2000E	36.0	3300	<2	<0.5	35	163	0.9	216
Line 0N 2000EB	37.9	3400	4	<0.5	28	167	0.8	199
Line 0N 2025E	37.0	2800	4	<0.5	22	120	0.9	196
*Rep Line 0N 475E	1.0	1000	5	<0.5	169	31	0.5	203
*Rep Line 0N 675E	1.3	1300	4	<0.5	144	62	0.9	252
*Rep Line 0N 1050E	86.2	21100	12	2.0	78	235	0.9	43
*Rep Line 0N 1375E	36.5	4800	3	<0.5	33	136	1.4	191
*Rep Line 0N 1725E	40.0	1600	4	<0.5	27	155	0.9	184
*Std MMISRM24	10.3	200	18	<0.5	19	118	0.6	161
*Std MMISRM19	200	6000	9	<0.5	17	2130	0.5	1060
*Blk BLANK	<0.5	<100	<2	<0.5	<1	<5	<0.1	<5
*Blk BLANK	<0.5	<100	<2	<0.5	<1	<5	0.1	<5

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Element Method Det.Lim. Units	Pd GE_MMI_M 1 ppb	Pr GE_MMI_M 0.5 ppb	Pt GE_MMI_M 0.1 ppb	Rb GE_MMI_M 1 ppb	Sb GE_MMI_M 0.5 ppb	Sc GE_MMI_M 5 ppb	Sm GE_MMI_M 1 ppb	Sn GE_MMI_M 1 ppb
Line 0N 0E	<1	7.5	<0.1	23	2.3	40	5	5
Line 0N 0EB	<1	4.6	<0.1	8	1.6	20	3	4
Line 0N 25E	<1	35.1	<0.1	90	0.7	30	37	<1
Line 0N 50E	<1	33.5	<0.1	87	0.7	28	36	<1
Line 0N 75E	<1	37.8	<0.1	95	<0.5	26	39	<1
Line 0N 100E	<1	42.2	<0.1	90	<0.5	28	42	<1
Line 0N 125E	<1	19.8	<0.1	64	0.6	33	18	<1
Line 0N 150E	<1	9.3	<0.1	43	0.9	24	7	3
Line 0N 175E	<1	5.3	<0.1	17	0.8	15	5	4
Line 0N 200E	<1	6.8	<0.1	37	1.2	26	5	6
Line 0N 225E	<1	17.8	<0.1	124	<0.5	23	17	<1
Line 0N 250E	<1	24.4	<0.1	134	<0.5	28	22	<1
Line 0N 275E	<1	19.0	<0.1	121	<0.5	28	18	<1
Line 0N 300E	<1	22.4	<0.1	142	<0.5	32	20	<1
Line 0N 325E	<1	17.1	<0.1	162	<0.5	34	15	<1
Line 0N 350E	<1	40.2	<0.1	113	<0.5	28	37	2
Line 0N 375E	<1	59.3	<0.1	102	0.7	39	43	3
Line 0N 400E	<1	74.5	<0.1	94	<0.5	50	55	1
Line 0N 425E	<1	7.8	<0.1	51	2.3	53	6	11
Line 0N 450E	<1	39.3	<0.1	132	<0.5	46	40	<1
Line 0N 475E	<1	33.6	<0.1	132	<0.5	50	35	<1
Line 0N 500E	<1	36.4	<0.1	143	<0.5	47	40	<1
Line 0N 500EB	<1	35.0	<0.1	148	<0.5	46	34	<1
Line 0N 525E	<1	43.5	<0.1	146	<0.5	42	37	<1
Line 0N 550E	<1	22.8	<0.1	89	1.2	39	18	2
Line 0N 575E	<1	36.7	<0.1	133	<0.5	27	39	<1
Line 0N 600E	<1	33.9	<0.1	134	<0.5	24	37	<1
Line 0N 625E	<1	29.5	<0.1	149	<0.5	30	33	1
Line 0N 650E	<1	29.2	<0.1	159	<0.5	32	32	<1
Line 0N 675E	<1	30.5	<0.1	162	<0.5	24	32	<1
Line 0N 700E	<1	30.1	<0.1	182	<0.5	31	29	<1
Line 0N 725E	<1	39.5	<0.1	178	<0.5	40	38	<1
Line 0N 750E	<1	33.9	<0.1	122	<0.5	27	35	<1
Line 0N 775E	<1	40.6	<0.1	128	<0.5	28	37	<1
Line 0N 800E	<1	44.9	<0.1	131	<0.5	38	40	<1
Line 0N 825E	<1	41.8	<0.1	113	<0.5	39	34	<1
Line 0N 850E	<1	35.3	<0.1	103	0.7	37	27	1
Line 0N 875E	<1	28.5	<0.1	74	<0.5	38	27	<1
Line 0N 900E	<1	7.2	<0.1	60	<0.5	<5	6	<1
Line 0N 925E	<1	5.6	<0.1	75	<0.5	<5	6	<1

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Element Method Det.Lim. Units	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 0N 950E	<1	23.0	<0.1	87	0.9	27	16	2
Line 0N 975E	<1	10.9	<0.1	41	<0.5	7	9	<1
Line 0N 1000E	<1	13.6	<0.1	71	<0.5	20	10	<1
Line 0N 1025E	<1	10.5	<0.1	37	<0.5	44	9	<1
Line 0N 1050E	<1	24.2	<0.1	79	0.5	15	16	<1
Line 0N 1075E	<1	7.5	<0.1	63	0.7	21	6	<1
Line 0N 1075B	<1	10.2	<0.1	59	0.6	9	8	<1
Line 0N 1100E	<1	4.0	<0.1	13	0.5	<5	5	<1
Line 0N 1125E	<1	4.8	<0.1	8	<0.5	<5	6	<1
Line 0N 1150E	<1	3.8	<0.1	14	<0.5	<5	4	<1
Line 0N 1175E	<1	5.7	<0.1	7	<0.5	<5	6	<1
Line 0N 1200E	<1	6.2	<0.1	20	<0.5	6	6	<1
Line 0N 1225E	<1	4.2	<0.1	13	<0.5	<5	5	<1
Line 0N 1250E	<1	4.4	<0.1	13	<0.5	<5	4	<1
Line 0N 1275E	<1	4.5	<0.1	21	<0.5	7	6	<1
Line 0N 1300E	<1	6.2	<0.1	13	<0.5	<5	7	<1
Line 0N 1325E	<1	11.3	<0.1	33	<0.5	22	11	<1
Line 0N 1350E	<1	6.8	<0.1	23	<0.5	6	8	<1
Line 0N 1375E	<1	6.2	<0.1	31	<0.5	8	8	<1
Line 0N 1400E	<1	6.8	<0.1	21	<0.5	11	9	<1
Line 0N 1425E	<1	6.4	<0.1	26	<0.5	7	8	<1
Line 0N 1450E	<1	7.3	<0.1	34	<0.5	12	8	<1
Line 0N 1475E	<1	6.5	<0.1	21	<0.5	14	8	<1
Line 0N 1500E	<1	6.3	<0.1	21	<0.5	16	8	<1
Line 0N 1525E	<1	6.8	<0.1	18	<0.5	16	9	<1
Line 0N 1550E	<1	4.6	<0.1	19	<0.5	10	6	<1
Line 0N 1575E	<1	5.2	<0.1	17	<0.5	14	6	<1
Line 0N 1600E	<1	5.5	<0.1	27	<0.5	15	7	<1
Line 0N 1625E	<1	5.3	<0.1	22	<0.5	15	7	<1
Line 0N 1650E	<1	5.4	<0.1	20	<0.5	13	7	<1
Line 0N 1675E	<1	5.2	<0.1	18	<0.5	16	7	<1
Line 0N 1700E	<1	5.1	<0.1	27	<0.5	13	7	<1
Line 0N 1725E	<1	5.9	<0.1	21	<0.5	11	8	<1
Line 0N 1750E	<1	6.8	<0.1	29	<0.5	16	9	<1
Line 0N 1775E	<1	5.5	<0.1	9	<0.5	8	6	<1
Line 0N 1800E	<1	7.3	<0.1	19	<0.5	8	9	<1
Line 0N 1825E	<1	7.4	<0.1	32	<0.5	13	8	<1
Line 0N 1850E	<1	9.1	<0.1	25	<0.5	12	9	<1
Line 0N 1875E	<1	8.3	<0.1	20	<0.5	10	8	<1
Line 0N 1900E	<1	7.9	<0.1	42	<0.5	30	10	<1

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Element Method Det.Lim. Units	Pd GE_MMI_M 1 ppb	Pr GE_MMI_M 0.5 ppb	Pt GE_MMI_M 0.1 ppb	Rb GE_MMI_M 1 ppb	Sb GE_MMI_M 0.5 ppb	Sc GE_MMI_M 5 ppb	Sm GE_MMI_M 1 ppb	Sn GE_MMI_M 1 ppb
Line 0N 1925E	<1	5.1	<0.1	21	<0.5	11	7	<1
Line 0N 1950E	<1	5.2	<0.1	20	<0.5	18	6	<1
Line 0N 1975E	<1	4.9	<0.1	17	<0.5	17	6	<1
Line 0N 2000E	<1	7.3	<0.1	33	<0.5	18	10	<1
Line 0N 2000EB	<1	6.1	<0.1	38	<0.5	17	7	<1
Line 0N 2025E	<1	4.7	<0.1	15	<0.5	8	6	<1
*Rep Line 0N 475E	<1	34.5	<0.1	132	<0.5	53	34	<1
*Rep Line 0N 675E	<1	29.9	<0.1	161	<0.5	26	32	<1
*Rep Line 0N 1050E	<1	19.1	<0.1	81	<0.5	11	13	<1
*Rep Line 0N 1375E	<1	6.7	<0.1	28	<0.5	6	8	<1
*Rep Line 0N 1725E	<1	5.7	<0.1	21	<0.5	10	8	<1
*Std MMISRM24	4	4.4	2.4	126	<0.5	8	4	<1
*Std MMISRM19	<1	2.5	<0.1	211	0.6	<5	8	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1

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Element Method Det.Lim. Units	Sr GE_MMI_M	Ta GE_MMI_M	Tb GE_MMI_M	Te GE_MMI_M	Th GE_MMI_M	Ti GE_MMI_M	Tl GE_MMI_M	U GE_MMI_M
	10	1	0.1	10	0.5	10	0.1	0.5
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Line 0N 0E	110	<1	0.7	<10	14.4	4740	0.3	3.7
Line 0N 0EB	110	<1	0.5	<10	11.1	1510	<0.1	2.4
Line 0N 25E	70	<1	4.1	<10	3.0	50	0.3	4.2
Line 0N 50E	50	<1	3.9	<10	4.2	170	0.2	4.4
Line 0N 75E	50	<1	4.3	<10	2.8	50	0.2	3.8
Line 0N 100E	40	<1	4.6	<10	3.5	110	0.3	3.9
Line 0N 125E	20	<1	2.2	<10	7.3	500	0.3	4.2
Line 0N 150E	70	<1	0.9	<10	11.0	2730	0.3	3.4
Line 0N 175E	100	<1	0.6	<10	10.9	2990	0.2	2.7
Line 0N 200E	100	<1	0.7	<10	11.9	5470	0.4	3.4
Line 0N 225E	20	<1	1.9	<10	4.0	140	0.2	3.4
Line 0N 250E	20	<1	2.5	<10	5.5	280	0.2	3.7
Line 0N 275E	20	<1	2.1	<10	5.6	330	0.2	3.4
Line 0N 300E	20	<1	2.4	<10	6.8	490	0.2	3.5
Line 0N 325E	20	<1	1.8	<10	9.7	550	0.2	3.2
Line 0N 350E	40	<1	3.8	<10	9.5	710	0.2	4.8
Line 0N 375E	40	<1	4.4	<10	16.2	2090	0.3	5.2
Line 0N 400E	20	<1	5.2	<10	10.7	1410	0.2	5.0
Line 0N 425E	90	<1	0.8	<10	30.4	5040	0.4	4.8
Line 0N 450E	60	<1	4.2	<10	1.9	30	0.2	3.3
Line 0N 475E	60	<1	3.6	<10	2.6	40	0.2	3.1
Line 0N 500E	70	<1	4.1	<10	1.3	10	0.2	2.8
Line 0N 500EB	40	<1	3.5	<10	2.2	30	0.2	3.1
Line 0N 525E	30	<1	3.9	<10	3.7	90	0.2	3.5
Line 0N 550E	30	<1	2.0	<10	19.5	1720	0.2	4.5
Line 0N 575E	70	<1	4.2	<10	3.9	40	0.3	4.5
Line 0N 600E	70	<1	4.0	<10	3.2	30	0.3	4.0
Line 0N 625E	60	<1	3.8	<10	7.8	180	0.2	5.3
Line 0N 650E	80	<1	3.8	<10	7.7	210	0.2	5.0
Line 0N 675E	60	<1	3.5	<10	2.8	30	0.2	3.1
Line 0N 700E	50	<1	3.2	<10	2.6	30	0.2	3.0
Line 0N 725E	30	<1	4.1	<10	4.8	110	0.2	4.3
Line 0N 750E	30	<1	3.7	<10	3.4	70	0.2	3.1
Line 0N 775E	30	<1	4.0	<10	4.2	130	0.2	3.5
Line 0N 800E	30	<1	4.2	<10	6.6	290	0.1	4.0
Line 0N 825E	30	<1	3.7	<10	12.3	960	0.2	4.5
Line 0N 850E	30	<1	3.1	<10	16.4	1350	0.2	4.8
Line 0N 875E	20	<1	3.0	<10	5.2	270	0.2	4.0
Line 0N 900E	240	<1	0.6	<10	13.4	100	0.3	4.1
Line 0N 925E	330	<1	0.8	<10	18.2	90	0.2	10.3

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Element Method Det.Lim. Units	Sr GE_MMI_M 10 ppb	Ta GE_MMI_M 1 ppb	Tb GE_MMI_M 0.1 ppb	Te GE_MMI_M 10 ppb	Th GE_MMI_M 0.5 ppb	Ti GE_MMI_M 10 ppb	Tl GE_MMI_M 0.1 ppb	U GE_MMI_M 0.5 ppb
Line 0N 950E	40	<1	1.9	<10	24.8	1710	0.2	4.4
Line 0N 975E	390	<1	0.8	<10	14.6	70	0.2	17.9
Line 0N 1000E	380	<1	1.2	<10	17.5	160	0.4	34.7
Line 0N 1025E	450	<1	1.2	<10	15.3	90	0.3	16.3
Line 0N 1050E	520	<1	1.5	<10	33.8	200	0.4	29.7
Line 0N 1075E	360	<1	0.8	<10	12.3	240	0.3	23.8
Line 0N 1075B	350	<1	0.8	<10	14.0	150	0.2	21.8
Line 0N 1100E	340	<1	1.0	<10	3.5	50	0.1	5.8
Line 0N 1125E	410	<1	1.1	<10	2.8	50	0.2	13.5
Line 0N 1150E	520	<1	0.8	<10	2.5	40	0.4	20.0
Line 0N 1175E	370	<1	1.1	<10	2.3	50	<0.1	9.8
Line 0N 1200E	560	<1	1.1	<10	3.6	70	0.3	50.3
Line 0N 1225E	490	<1	0.9	<10	2.8	40	0.2	17.8
Line 0N 1250E	490	<1	0.8	<10	2.8	50	0.1	24.6
Line 0N 1275E	360	<1	1.2	<10	6.2	110	0.3	16.3
Line 0N 1300E	340	<1	1.2	<10	4.2	70	0.2	10.4
Line 0N 1325E	490	<1	2.1	<10	10.9	180	0.7	69.1
Line 0N 1350E	430	<1	1.7	<10	6.7	110	0.2	26.5
Line 0N 1375E	410	<1	1.8	<10	7.5	140	0.2	20.4
Line 0N 1400E	400	<1	1.8	<10	7.1	130	0.2	19.7
Line 0N 1425E	460	<1	1.5	<10	5.3	100	0.2	19.1
Line 0N 1450E	580	<1	1.3	<10	5.3	90	0.3	36.4
Line 0N 1475E	380	<1	1.7	<10	7.8	130	0.2	17.3
Line 0N 1500E	400	<1	2.0	<10	8.1	130	0.3	19.0
Line 0N 1525E	360	<1	1.9	<10	7.3	130	0.2	21.4
Line 0N 1550E	370	<1	1.5	<10	5.1	100	0.2	13.6
Line 0N 1575E	390	<1	1.3	<10	5.3	140	0.2	18.0
Line 0N 1600E	380	<1	1.6	<10	6.7	130	0.1	15.7
Line 0N 1625E	410	<1	1.3	<10	5.4	120	0.2	14.6
Line 0N 1650E	390	<1	1.8	<10	6.1	120	0.2	17.0
Line 0N 1675E	410	<1	1.5	<10	5.5	110	0.1	14.7
Line 0N 1700E	340	<1	1.4	<10	5.7	120	0.1	10.2
Line 0N 1725E	450	<1	1.4	<10	4.2	90	0.2	14.9
Line 0N 1750E	460	<1	1.6	<10	6.5	110	0.2	17.7
Line 0N 1775E	460	<1	1.5	<10	4.2	60	0.3	20.7
Line 0N 1800E	460	<1	1.6	<10	4.5	60	<0.1	14.3
Line 0N 1825E	660	<1	1.4	<10	4.3	80	0.4	26.8
Line 0N 1850E	670	<1	1.4	<10	4.3	70	0.3	35.8
Line 0N 1875E	640	<1	1.2	<10	3.7	80	0.3	34.7
Line 0N 1900E	550	<1	2.5	<10	8.1	80	0.3	37.9

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Element Method Det.Lim. Units	Sr	Ta	Tb	Te	Th	Ti	Tl	U
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	10	1	0.1	10	0.5	10	0.1	0.5
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Line 0N 1925E	370	<1	1.4	<10	5.8	120	0.1	12.7
Line 0N 1950E	420	<1	1.1	<10	4.4	110	0.2	17.3
Line 0N 1975E	380	<1	1.2	<10	4.0	100	0.1	11.7
Line 0N 2000E	410	<1	2.0	<10	7.9	110	0.2	15.9
Line 0N 2000EB	440	<1	1.3	<10	6.5	130	0.3	23.4
Line 0N 2025E	420	<1	1.1	<10	3.4	80	0.2	11.2
*Rep Line 0N 475E	50	<1	3.7	<10	2.2	20	0.2	3.1
*Rep Line 0N 675E	60	<1	3.5	<10	2.7	20	0.2	3.2
*Rep Line 0N 1050E	490	<1	1.2	<10	29.2	160	0.3	25.7
*Rep Line 0N 1375E	400	<1	1.8	<10	7.4	130	0.2	17.9
*Rep Line 0N 1725E	460	<1	1.3	<10	4.1	90	0.1	14.7
*Std MMISRM24	1400	<1	0.5	<10	12.6	20	0.1	8.7
*Std MMISRM19	3710	<1	2.0	<10	16.0	<10	0.9	62.2
*Blk BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5
*Blk BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5

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Element Method Det.Lim. Units	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	1	0.2	10	2
	ppb	ppb	ppb	ppb	ppb
Line 0N 0E	1.3	21	1.9	370	71
Line 0N 0EB	1.0	14	1.1	250	38
Line 0N 25E	<0.5	102	6.1	140	7
Line 0N 50E	<0.5	100	6.0	170	11
Line 0N 75E	<0.5	110	6.7	70	7
Line 0N 100E	<0.5	119	7.5	70	9
Line 0N 125E	<0.5	59	4.8	100	22
Line 0N 150E	0.7	23	2.1	230	49
Line 0N 175E	1.1	17	1.4	220	54
Line 0N 200E	1.4	19	1.7	200	72
Line 0N 225E	<0.5	48	3.7	120	12
Line 0N 250E	<0.5	71	5.1	160	14
Line 0N 275E	<0.5	58	4.3	170	15
Line 0N 300E	<0.5	71	5.0	280	18
Line 0N 325E	<0.5	52	4.4	220	19
Line 0N 350E	<0.5	100	5.4	340	24
Line 0N 375E	0.8	125	6.4	410	49
Line 0N 400E	<0.5	151	7.4	200	35
Line 0N 425E	2.1	20	1.8	1040	101
Line 0N 450E	<0.5	106	5.6	130	7
Line 0N 475E	<0.5	90	4.8	170	7
Line 0N 500E	<0.5	100	5.0	150	5
Line 0N 500EB	<0.5	89	4.5	140	6
Line 0N 525E	<0.5	105	5.6	150	9
Line 0N 550E	0.6	50	3.5	270	51
Line 0N 575E	<0.5	103	5.7	150	10
Line 0N 600E	<0.5	94	5.0	160	8
Line 0N 625E	0.7	88	5.4	310	19
Line 0N 650E	<0.5	88	5.4	470	17
Line 0N 675E	<0.5	85	4.9	190	7
Line 0N 700E	<0.5	80	4.3	190	7
Line 0N 725E	<0.5	112	6.5	240	11
Line 0N 750E	<0.5	93	5.0	310	9
Line 0N 775E	<0.5	109	5.5	290	11
Line 0N 800E	<0.5	123	6.5	320	16
Line 0N 825E	<0.5	108	6.4	380	34
Line 0N 850E	<0.5	76	5.6	420	48
Line 0N 875E	<0.5	84	6.2	170	14
Line 0N 900E	<0.5	19	1.7	240	23
Line 0N 925E	0.7	24	2.1	200	26

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Element Method Det.Lim. Units	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	1	0.2	10	2
	ppb	ppb	ppb	ppb	ppb
Line 0N 950E	0.6	48	3.6	380	68
Line 0N 975E	<0.5	33	2.9	900	17
Line 0N 1000E	<0.5	41	3.9	770	39
Line 0N 1025E	<0.5	39	3.4	2020	19
Line 0N 1050E	<0.5	47	4.4	380	32
Line 0N 1075E	<0.5	30	2.9	1460	35
Line 0N 1075B	<0.5	30	2.8	620	25
Line 0N 1100E	<0.5	44	3.7	2940	6
Line 0N 1125E	<0.5	45	3.0	3050	5
Line 0N 1150E	0.9	37	2.7	3680	6
Line 0N 1175E	<0.5	40	3.0	1070	6
Line 0N 1200E	<0.5	50	3.8	2050	12
Line 0N 1225E	0.5	49	3.4	4200	7
Line 0N 1250E	<0.5	37	2.8	1270	7
Line 0N 1275E	<0.5	54	4.4	3370	9
Line 0N 1300E	<0.5	48	3.4	2070	8
Line 0N 1325E	<0.5	94	7.4	3980	26
Line 0N 1350E	<0.5	75	6.7	2460	15
Line 0N 1375E	<0.5	67	6.7	3350	16
Line 0N 1400E	<0.5	82	6.2	2560	10
Line 0N 1425E	<0.5	59	4.4	2310	11
Line 0N 1450E	<0.5	55	4.2	3670	13
Line 0N 1475E	<0.5	68	5.5	2950	12
Line 0N 1500E	<0.5	85	6.6	3840	9
Line 0N 1525E	<0.5	89	6.3	2700	11
Line 0N 1550E	<0.5	66	5.2	2140	9
Line 0N 1575E	<0.5	57	4.5	2780	12
Line 0N 1600E	<0.5	70	5.3	2570	11
Line 0N 1625E	<0.5	58	4.6	3040	11
Line 0N 1650E	<0.5	80	6.5	2720	10
Line 0N 1675E	<0.5	70	5.4	2120	11
Line 0N 1700E	<0.5	57	5.1	2160	10
Line 0N 1725E	<0.5	53	4.1	2150	9
Line 0N 1750E	<0.5	68	5.5	3970	12
Line 0N 1775E	<0.5	80	5.4	4750	8
Line 0N 1800E	<0.5	65	5.1	2170	8
Line 0N 1825E	<0.5	55	3.9	2590	9
Line 0N 1850E	<0.5	57	4.4	1680	10
Line 0N 1875E	0.5	49	3.7	2320	10
Line 0N 1900E	<0.5	118	8.8	1950	13

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Element Method Det.Lim. Units	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	1	0.2	10	2
	ppb	ppb	ppb	ppb	ppb
Line 0N 1925E	<0.5	66	4.9	2050	11
Line 0N 1950E	<0.5	47	3.9	2430	10
Line 0N 1975E	<0.5	47	4.0	2630	9
Line 0N 2000E	<0.5	76	6.4	3160	11
Line 0N 2000EB	<0.5	57	4.6	3980	12
Line 0N 2025E	<0.5	45	3.7	3310	7
*Rep Line 0N 475E	<0.5	93	4.9	150	6
*Rep Line 0N 675E	<0.5	81	4.9	190	7
*Rep Line 0N 1050E	<0.5	38	3.5	420	23
*Rep Line 0N 1375E	<0.5	66	6.2	3370	14
*Rep Line 0N 1725E	<0.5	51	4.3	2110	8
*Std MMISRM24	<0.5	17	0.7	180	21
*Std MMISRM19	<0.5	64	4.9	2600	14
*Blk BLANK	<0.5	<1	<0.2	<10	<2
*Blk BLANK	<0.5	<1	<0.2	<10	<2

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Certificate of Analysis
Work Order : VC183051
[Report File No.: 000031623]

Date: September 21, 2018

To: Charles Gryba
COD SGS MINERALS - GEOCHEM VANCOUVER
Central Timmins Exploration Corp.
200 Bay Street, Suite 2350
Toronto
ONT M5J 2J2

P.O. No.: Central Timmins Exploration Corp.
Project No.: -
Samples: 86
Received: Aug 21, 2018
Pages: Page 1 to 22
(Inclusive of Cover Sheet)

Methods Summary

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

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE 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

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppm	GE_MMI_M 10 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 2 ppm	GE_MMI_M 1 ppb
Line 0N 2050E	0.7	87	<10	<0.1	650	<0.5	207	81
Line 0N 2075E	<0.5	80	<10	<0.1	260	<0.5	235	39
Line 0N 2100E	1.7	92	<10	<0.1	680	<0.5	269	73
Line 0N 2125E	1.9	66	<10	<0.1	480	<0.5	367	37
Line 0N 2150E	1.2	77	<10	<0.1	420	<0.5	296	45
Line 0N 2175E	<0.5	61	<10	<0.1	240	<0.5	264	35
Line 0N 2200E	1.4	64	<10	<0.1	500	<0.5	339	32
Line 200N 0E	1.5	140	10	<0.1	520	<0.5	40	11
Line 200N 25E	2.1	255	30	0.1	900	1.0	48	16
Line 200N 50E	2.0	233	30	0.1	730	0.9	43	14
Line 200N 75E	2.3	276	30	0.1	760	1.4	51	20
Line 200N 100E	2.1	308	40	0.1	720	1.7	42	18
Line 200N 125E	3.0	309	30	0.1	730	0.8	24	14
Line 200N 150E	4.0	339	50	<0.1	740	1.6	16	20
Line 200N 175E	7.3	48	<10	<0.1	570	<0.5	5	4
Line 200N 200E	5.4	56	<10	<0.1	560	<0.5	6	6
Line 200N 225E	5.1	72	<10	0.1	240	<0.5	7	8
Line 200N 250E	4.3	62	<10	0.1	260	<0.5	7	8
Line 200N 275E	3.4	65	<10	<0.1	160	<0.5	6	7
Line 200N 300E	4.4	80	<10	<0.1	180	0.6	7	8
Line 200N 300EB	2.9	52	<10	0.1	160	<0.5	3	4
Line 200N 325E	4.3	57	<10	<0.1	240	<0.5	5	7
Line 200N 350E	8.7	128	<10	0.1	280	1.5	12	14
Line 200N 375E	7.6	193	20	0.1	270	3.0	14	23
Line 200N 400E	7.8	235	30	0.3	390	2.3	19	20
Line 200N 425E	7.9	295	90	0.2	610	2.5	11	8
Line 200N 450E	4.0	128	<10	<0.1	420	1.6	51	24
Line 200N 475E	4.2	61	<10	<0.1	360	<0.5	9	9
Line 200N 500E	9.1	94	<10	<0.1	350	<0.5	13	11
Line 200N 500EB	7.8	99	<10	<0.1	210	<0.5	3	7
Line 200N 525E	7.5	321	30	<0.1	440	0.9	5	8
Line 200N 550E	1.9	91	<10	0.3	500	<0.5	43	7
Line 200N 575E	1.3	60	<10	<0.1	610	<0.5	17	4
Line 200N 600E	1.9	63	<10	<0.1	480	<0.5	20	5
Line 200N 625E	2.2	91	<10	<0.1	560	<0.5	32	8
Line 200N 650E	1.7	73	<10	<0.1	410	<0.5	23	6
Line 200N 675E	1.9	68	<10	<0.1	280	<0.5	17	8
Line 200N 700E	2.4	84	<10	0.1	290	<0.5	19	8
Line 200N 725E	2.1	81	<10	<0.1	260	<0.5	25	10
Line 200N 750E	2.5	72	<10	<0.1	220	<0.5	20	8

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppb	1 ppm	10 ppb	0.1 ppb	10 ppb	0.5 ppb	2 ppm	1 ppb
Line 200N 775E	4.4	16	10	<0.1	500	<0.5	343	11
Line 200N 800E	4.1	14	<10	0.2	470	<0.5	329	11
Line 200N 800EB	3.2	12	10	<0.1	700	<0.5	306	9
Line 200N 825E	4.1	14	20	0.2	710	<0.5	343	10
Line 200N 850E	3.9	60	<10	<0.1	240	<0.5	15	8
Line 200N 875E	6.0	79	<10	<0.1	250	<0.5	14	9
Line 200N 900E	5.1	282	30	<0.1	470	1.2	16	12
Line 200N 925E	2.7	249	60	<0.1	770	2.9	29	16
Line 200N 950E	2.6	41	<10	0.2	550	<0.5	350	39
Line 200N 975E	1.3	63	10	<0.1	670	<0.5	215	13
Line 200N 1000E	2.4	67	<10	0.2	680	<0.5	340	40
Line 200N 1025E	2.4	66	<10	0.1	650	<0.5	286	31
Line 200N 1050E	2.2	55	<10	<0.1	600	<0.5	311	34
Line 200N 1075E	1.6	45	<10	0.1	560	<0.5	326	31
Line 200N 1100E	4.9	92	<10	<0.1	990	<0.5	271	91
Line 200N 1125E	0.6	83	<10	<0.1	510	<0.5	219	45
Line 200N 1150E	<0.5	85	<10	<0.1	320	0.5	217	60
Line 200N 1175E	0.8	85	<10	<0.1	390	<0.5	273	54
Line 200N 1200E	1.9	69	<10	<0.1	840	<0.5	335	69
Line 200N 1225E	0.9	73	<10	<0.1	500	<0.5	291	39
Line 200N 1250E	0.9	71	<10	<0.1	530	<0.5	282	32
Line 200N 1275E	<0.5	75	<10	<0.1	300	<0.5	219	52
Line 200N 1300E	<0.5	87	10	<0.1	330	0.8	150	76
Line 200N 1325E	<0.5	75	20	<0.1	330	1.1	153	77
Line 200N 1350E	2.3	73	<10	<0.1	720	<0.5	337	29
Line 200N 1375E	1.9	77	<10	<0.1	700	<0.5	311	38
Line 200N 1400E	3.1	83	<10	<0.1	800	<0.5	349	44
Line 200N 1425E	<0.5	74	<10	<0.1	350	<0.5	225	43
Line 200N 1450E	<0.5	75	20	<0.1	370	<0.5	178	67
Line 200N 1475E	<0.5	61	20	<0.1	310	<0.5	204	76
Line 200N 1500E	0.8	96	10	<0.1	520	<0.5	201	68
Line 200N 1525E	<0.5	74	10	<0.1	380	<0.5	160	70
Line 200N 1550E	<0.5	78	10	<0.1	430	<0.5	214	108
Line 200N 1575E	4.3	81	10	<0.1	1020	<0.5	339	120
Line 200N 1600E	<0.5	73	<10	<0.1	320	<0.5	244	40
Line 200N 1625E	<0.5	66	<10	<0.1	260	<0.5	192	47
Line 200N 1650E	2.7	75	10	<0.1	530	<0.5	359	34
Line 200N 1675E	1.0	79	<10	<0.1	330	<0.5	321	47
Line 200N 1700E	2.4	74	<10	<0.1	390	<0.5	349	57
Line 200N 1725E	0.6	91	<10	<0.1	390	<0.5	259	38

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppm	GE_MMI_M 10 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 2 ppm	GE_MMI_M 1 ppb
Line 200N 1750E	<0.5	81	<10	<0.1	320	<0.5	205	57
Line 200N 1775E	<0.5	91	<10	<0.1	350	0.6	257	99
Line 200N 1800E	3.0	72	<10	<0.1	750	<0.5	369	42
Line 200N 1825E	0.8	79	10	<0.1	390	<0.5	282	59
Line 200N 1850E	<0.5	87	<10	<0.1	370	<0.5	227	62
Line 200N 1875E	1.0	77	<10	<0.1	410	<0.5	327	31
*Rep Line 0N 2050E	0.8	89	<10	<0.1	550	<0.5	199	80
*Rep Line 200N 275E	3.8	60	<10	<0.1	150	<0.5	6	7
*Rep Line 200N 1300E	<0.5	87	<10	0.1	310	0.6	174	72
*Rep Line 200N 1675E	0.8	78	10	<0.1	370	<0.5	314	42
*Std MMISRM24	20.1	40	10	3.4	110	<0.5	61	6
*Std MMISRM19	27.7	25	10	5.4	1390	<0.5	708	39
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1

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Element Method Det.Lim. Units	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
	GE_MMI_M 2 ppb	GE_MMI_M 1 ppb	GE_MMI_M 100 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 0.2 ppb
Line 0N 2050E	40	44	<100	0.7	140	13.3	9.0	1.7
Line 0N 2075E	47	20	<100	0.7	70	7.8	4.8	1.7
Line 0N 2100E	67	25	<100	0.8	130	13.5	8.1	2.3
Line 0N 2125E	54	15	<100	0.4	130	5.2	2.8	1.5
Line 0N 2150E	55	10	<100	0.5	70	7.6	4.3	1.8
Line 0N 2175E	48	15	<100	0.3	30	5.0	2.8	1.5
Line 0N 2200E	72	15	<100	0.4	120	5.9	3.3	1.8
Line 200N 0E	153	49	<100	3.3	180	14.6	6.5	6.9
Line 200N 25E	114	60	200	4.0	290	9.8	4.7	4.2
Line 200N 50E	90	53	100	3.9	250	8.6	3.7	3.4
Line 200N 75E	82	50	200	3.9	310	6.9	3.5	2.8
Line 200N 100E	81	46	200	3.9	330	6.5	3.2	2.7
Line 200N 125E	90	48	200	5.3	350	6.4	3.6	2.9
Line 200N 150E	74	46	200	4.0	420	5.5	2.9	2.1
Line 200N 175E	169	50	<100	2.9	90	30.9	13.5	14.2
Line 200N 200E	272	51	<100	3.2	110	33.1	13.4	14.1
Line 200N 225E	249	53	<100	3.6	120	26.5	11.5	12.4
Line 200N 250E	276	48	<100	3.8	130	29.8	13.1	13.7
Line 200N 275E	274	41	<100	3.7	120	28.3	12.1	13.1
Line 200N 300E	216	30	<100	3.6	140	24.9	11.6	12.1
Line 200N 300EB	210	26	<100	3.8	80	26.2	11.8	12.4
Line 200N 325E	203	23	<100	4.2	120	24.9	11.3	11.9
Line 200N 350E	195	28	<100	4.2	240	21.3	9.9	10.3
Line 200N 375E	160	24	100	4.5	300	17.4	8.6	8.2
Line 200N 400E	165	27	100	3.8	320	14.9	7.4	6.8
Line 200N 425E	166	20	300	3.5	330	8.6	3.9	3.4
Line 200N 450E	170	55	<100	3.9	320	18.1	7.8	7.5
Line 200N 475E	196	43	<100	4.9	160	21.1	8.7	9.3
Line 200N 500E	203	49	<100	5.0	220	20.5	8.5	9.4
Line 200N 500EB	205	41	<100	5.3	230	19.2	8.5	9.5
Line 200N 525E	143	20	200	4.8	340	10.9	5.1	5.5
Line 200N 550E	121	53	<100	2.9	150	12.6	5.0	4.8
Line 200N 575E	113	31	<100	3.0	130	13.8	5.7	5.6
Line 200N 600E	117	37	<100	2.8	120	13.9	5.8	5.4
Line 200N 625E	119	54	<100	2.9	130	13.2	5.3	5.1
Line 200N 650E	100	49	<100	3.0	110	12.8	5.2	5.2
Line 200N 675E	94	57	<100	3.2	100	12.2	5.4	5.0
Line 200N 700E	88	55	<100	3.1	110	12.3	5.4	5.0
Line 200N 725E	80	51	<100	3.4	120	10.6	4.7	4.6
Line 200N 750E	82	45	<100	3.5	110	10.4	4.4	4.6

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Element Method Det.Lim. Units	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	2	1	100	0.2	10	0.5	0.2	0.2
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Line 200N 775E	60	72	<100	1.0	1300	5.7	3.0	2.1
Line 200N 800E	54	56	<100	1.0	1130	5.5	3.1	1.9
Line 200N 800EB	86	59	<100	1.0	780	5.9	2.9	2.2
Line 200N 825E	74	52	<100	1.0	1140	6.1	3.0	2.4
Line 200N 850E	97	34	<100	3.4	110	11.3	4.8	5.7
Line 200N 875E	97	39	<100	3.4	100	9.6	4.2	4.6
Line 200N 900E	112	42	200	3.5	190	7.8	3.7	4.1
Line 200N 925E	63	11	200	2.4	230	4.4	2.2	2.1
Line 200N 950E	143	45	<100	0.6	250	7.3	4.1	2.3
Line 200N 975E	70	112	<100	1.3	400	5.1	3.0	1.5
Line 200N 1000E	139	54	<100	0.9	200	8.7	4.6	2.4
Line 200N 1025E	121	36	<100	0.9	160	8.2	4.6	2.2
Line 200N 1050E	138	29	<100	0.6	200	8.3	4.5	2.7
Line 200N 1075E	130	56	<100	0.7	280	6.6	3.7	2.3
Line 200N 1100E	113	46	<100	1.1	580	12.5	7.8	2.5
Line 200N 1125E	66	36	<100	0.7	110	10.1	6.3	1.9
Line 200N 1150E	52	41	<100	0.8	110	7.8	4.9	1.5
Line 200N 1175E	88	19	<100	0.5	100	8.4	4.9	2.1
Line 200N 1200E	164	48	<100	0.8	960	9.8	5.5	3.2
Line 200N 1225E	93	31	<100	0.6	200	6.9	3.7	2.0
Line 200N 1250E	72	36	<100	0.6	200	6.0	3.7	1.7
Line 200N 1275E	57	18	<100	0.5	80	7.4	4.2	1.4
Line 200N 1300E	42	53	<100	1.4	110	7.3	5.4	1.1
Line 200N 1325E	36	32	<100	1.4	120	6.9	4.3	1.3
Line 200N 1350E	149	42	<100	0.8	360	8.7	4.7	2.5
Line 200N 1375E	156	23	<100	0.9	150	8.8	5.1	2.8
Line 200N 1400E	150	30	<100	0.7	280	9.6	5.3	2.8
Line 200N 1425E	48	24	<100	0.4	60	5.8	3.8	1.2
Line 200N 1450E	42	37	<100	0.4	60	5.2	3.0	1.0
Line 200N 1475E	71	32	<100	0.8	70	5.3	3.2	1.2
Line 200N 1500E	84	67	<100	0.7	90	9.9	5.7	1.8
Line 200N 1525E	45	30	<100	0.6	110	8.4	4.9	1.3
Line 200N 1550E	79	28	<100	0.8	120	8.5	4.9	1.7
Line 200N 1575E	228	57	<100	0.8	950	13.7	7.9	4.0
Line 200N 1600E	63	18	<100	0.4	70	6.3	3.8	1.6
Line 200N 1625E	43	27	<100	0.3	80	5.6	3.6	1.2
Line 200N 1650E	110	32	<100	0.5	390	7.4	4.2	2.2
Line 200N 1675E	52	12	<100	0.4	120	5.8	3.3	1.4
Line 200N 1700E	57	12	<100	0.3	230	5.3	3.1	1.5
Line 200N 1725E	65	21	<100	0.4	100	7.8	4.4	1.7

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Element Method Det.Lim. Units	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
	GE_MMI_M 2 ppb	GE_MMI_M 1 ppb	GE_MMI_M 100 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 0.2 ppb
Line 200N 1750E	59	22	<100	0.3	80	7.2	4.7	1.4
Line 200N 1775E	89	23	<100	1.3	120	7.0	4.5	1.9
Line 200N 1800E	189	70	<100	0.8	800	9.0	5.1	3.1
Line 200N 1825E	94	19	<100	0.6	70	7.1	4.3	1.9
Line 200N 1850E	57	26	<100	0.4	80	8.8	5.5	1.8
Line 200N 1875E	79	18	<100	0.5	100	6.0	3.5	1.7
*Rep Line 0N 2050E	50	32	<100	0.7	140	13.4	9.0	2.0
*Rep Line 200N 275E	279	39	<100	3.5	110	27.7	12.2	13.4
*Rep Line 200N 1300E	51	39	<100	1.3	100	7.7	5.4	1.4
*Rep Line 200N 1675E	52	18	<100	0.3	120	5.4	3.1	1.3
*Std MMISRM24	40	18	<100	9.5	270	3.6	1.4	1.2
*Std MMISRM19	22	400	<100	5.0	2240	14.2	7.1	3.0
*Blk BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2
*Blk BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_M 1 ppm	GE_MMI_M 0.5 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 0N 2050E	179	3.8	7.6	<1	<0.1	4.3	10	7
Line 0N 2075E	91	4.1	7.2	<1	<0.1	1.8	13	4
Line 0N 2100E	108	4.1	10.1	<1	0.1	4.2	18	10
Line 0N 2125E	41	1.9	5.8	<1	<0.1	5.8	16	10
Line 0N 2150E	84	2.9	7.2	<1	<0.1	4.0	15	9
Line 0N 2175E	59	2.6	5.9	<1	<0.1	2.6	14	4
Line 0N 2200E	42	2.1	6.9	<1	<0.1	6.0	21	13
Line 200N 0E	40	15.0	20.4	<1	0.2	9.5	70	1
Line 200N 25E	74	31.1	12.7	1	0.4	12.2	53	3
Line 200N 50E	64	26.5	9.9	1	0.4	11.1	41	3
Line 200N 75E	80	37.8	8.0	1	0.4	15.0	40	4
Line 200N 100E	93	48.5	7.7	2	0.4	15.6	42	6
Line 200N 125E	82	53.8	8.2	2	0.3	14.5	48	5
Line 200N 150E	106	59.5	6.2	3	0.4	15.5	44	5
Line 200N 175E	5	8.6	48.8	<1	<0.1	6.4	143	<1
Line 200N 200E	7	11.0	48.6	<1	0.1	7.8	148	<1
Line 200N 225E	11	18.3	41.8	<1	0.1	10.6	99	<1
Line 200N 250E	9	16.2	47.1	<1	0.1	10.4	111	<1
Line 200N 275E	11	17.2	45.2	<1	0.2	10.4	105	<1
Line 200N 300E	15	19.5	38.5	<1	0.2	11.0	83	<1
Line 200N 300EB	7	17.0	41.2	<1	0.1	8.0	78	<1
Line 200N 325E	9	17.8	39.2	<1	0.1	10.0	84	<1
Line 200N 350E	35	23.3	29.3	<1	0.3	16.9	92	<1
Line 200N 375E	58	34.5	22.5	<1	0.4	21.1	71	2
Line 200N 400E	94	56.9	19.1	<1	0.5	20.3	75	4
Line 200N 425E	184	108	10.2	1	0.8	22.1	76	13
Line 200N 450E	33	14.3	24.2	<1	0.7	26.6	67	1
Line 200N 475E	8	10.6	29.5	<1	<0.1	12.5	74	<1
Line 200N 500E	17	13.3	27.9	<1	0.2	14.1	78	<1
Line 200N 500EB	18	15.3	26.5	<1	0.1	12.4	77	<1
Line 200N 525E	84	36.7	13.0	2	0.4	19.7	72	3
Line 200N 550E	18	8.7	16.5	<1	<0.1	13.7	37	<1
Line 200N 575E	8	5.6	18.2	<1	<0.1	11.4	40	<1
Line 200N 600E	9	5.5	18.6	<1	<0.1	11.6	35	<1
Line 200N 625E	19	10.8	16.3	<1	0.1	13.1	36	1
Line 200N 650E	12	7.8	16.7	<1	<0.1	11.4	30	<1
Line 200N 675E	10	9.2	16.7	<1	<0.1	10.8	27	<1
Line 200N 700E	17	12.7	16.0	<1	0.1	11.3	30	<1
Line 200N 725E	13	9.6	14.4	<1	<0.1	12.2	27	<1
Line 200N 750E	12	10.8	14.0	<1	<0.1	12.0	28	<1

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_M 1 ppm	GE_MMI_M 0.5 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 200N 775E	33	0.8	7.9	<1	<0.1	7.3	22	5
Line 200N 800E	33	0.8	7.7	<1	<0.1	7.8	20	5
Line 200N 800EB	28	1.0	8.8	<1	<0.1	8.2	36	5
Line 200N 825E	32	0.8	9.0	<1	<0.1	8.8	29	4
Line 200N 850E	10	13.8	15.7	<1	0.1	12.0	34	<1
Line 200N 875E	17	19.2	12.8	<1	<0.1	11.4	47	<1
Line 200N 900E	91	66.7	9.5	1	0.3	14.3	78	5
Line 200N 925E	95	91.3	5.1	<1	0.5	18.9	46	11
Line 200N 950E	87	2.0	9.5	<1	<0.1	6.5	46	4
Line 200N 975E	263	4.3	5.6	<1	0.1	3.7	22	12
Line 200N 1000E	113	2.6	9.7	<1	<0.1	3.9	42	7
Line 200N 1025E	178	3.8	9.5	<1	0.1	3.2	35	10
Line 200N 1050E	105	2.2	10.3	<1	<0.1	4.4	43	6
Line 200N 1075E	92	2.1	8.2	<1	<0.1	4.1	44	5
Line 200N 1100E	167	2.4	10.8	<1	0.1	8.5	32	4
Line 200N 1125E	166	3.9	8.0	<1	0.2	5.6	18	5
Line 200N 1150E	118	4.7	6.9	<1	0.3	4.5	14	4
Line 200N 1175E	100	4.1	8.6	<1	0.1	5.5	23	6
Line 200N 1200E	121	2.7	12.1	<1	<0.1	10.4	59	6
Line 200N 1225E	98	2.8	7.7	<1	<0.1	6.5	28	6
Line 200N 1250E	132	2.5	6.4	<1	<0.1	6.6	22	6
Line 200N 1275E	154	3.0	6.5	<1	0.2	4.4	13	4
Line 200N 1300E	200	5.3	5.0	<1	0.3	3.5	11	5
Line 200N 1325E	230	6.4	4.9	<1	0.4	3.4	9	4
Line 200N 1350E	87	3.5	10.5	<1	<0.1	9.9	44	11
Line 200N 1375E	94	3.3	10.6	<1	<0.1	10.1	42	8
Line 200N 1400E	82	2.6	11.2	<1	<0.1	11.2	44	7
Line 200N 1425E	142	2.9	5.0	<1	<0.1	4.4	13	2
Line 200N 1450E	182	4.0	4.2	<1	0.2	3.8	10	2
Line 200N 1475E	179	2.2	4.8	<1	0.2	5.8	14	3
Line 200N 1500E	151	6.3	8.0	<1	0.1	4.0	18	5
Line 200N 1525E	215	4.6	5.3	<1	0.2	5.4	12	5
Line 200N 1550E	161	3.8	7.8	<1	0.2	8.3	22	8
Line 200N 1575E	111	3.1	15.9	<1	0.1	8.7	80	8
Line 200N 1600E	128	3.6	6.7	<1	0.1	5.9	17	4
Line 200N 1625E	179	3.5	5.0	<1	0.2	7.0	11	3
Line 200N 1650E	53	3.0	8.3	<1	<0.1	9.0	33	10
Line 200N 1675E	73	2.5	5.9	<1	<0.1	4.9	17	4
Line 200N 1700E	50	2.3	5.8	<1	<0.1	4.1	19	5
Line 200N 1725E	103	3.7	6.5	<1	<0.1	4.5	17	4

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	GE_MMI_M 1 ppm	GE_MMI_M 0.5 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 200N 1750E	138	3.7	6.2	<1	0.1	3.3	12	3
Line 200N 1775E	62	5.7	7.2	<1	0.2	3.4	17	5
Line 200N 1800E	83	3.5	11.1	<1	<0.1	11.3	59	11
Line 200N 1825E	105	3.2	7.6	<1	<0.1	7.4	23	6
Line 200N 1850E	124	4.8	7.6	<1	0.1	2.9	14	4
Line 200N 1875E	73	3.1	6.6	<1	<0.1	6.2	22	7
*Rep Line 0N 2050E	174	4.7	8.7	<1	0.1	3.7	12	6
*Rep Line 200N 275E	10	16.3	46.1	<1	0.2	9.8	107	<1
*Rep Line 200N 1300E	159	5.1	5.9	<1	0.3	3.5	12	4
*Rep Line 200N 1675E	88	2.5	5.3	<1	<0.1	5.3	16	4
*Std MMISRM24	12	2.6	4.9	5	<0.1	11.7	16	1
*Std MMISRM19	9	0.7	15.7	2	<0.1	95.8	5	1
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_M 0.5 ppm	GE_MMI_M 100 ppb	GE_MMI_M 2 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 5 ppb	GE_MMI_M 0.1 ppm	GE_MMI_M 5 ppb
Line 0N 2050E	42.0	3500	3	<0.5	21	177	0.7	279
Line 0N 2075E	33.3	3000	3	<0.5	24	107	0.9	267
Line 0N 2100E	47.9	2900	4	<0.5	32	180	0.5	261
Line 0N 2125E	53.8	1000	10	0.5	26	195	0.5	109
Line 0N 2150E	43.8	1300	3	<0.5	27	145	0.7	162
Line 0N 2175E	37.7	2400	3	<0.5	24	96	0.7	134
Line 0N 2200E	50.5	1000	6	0.6	35	155	0.4	136
Line 200N 0E	1.6	6000	4	2.8	104	61	2.6	228
Line 200N 25E	2.7	11000	5	6.1	60	99	5.7	410
Line 200N 50E	2.4	9800	5	5.3	49	84	5.2	379
Line 200N 75E	3.6	11100	5	7.6	41	98	7.3	513
Line 200N 100E	4.1	10000	5	10.5	40	99	8.4	500
Line 200N 125E	1.5	8500	5	8.9	44	98	8.3	326
Line 200N 150E	2.0	6800	4	11.0	36	90	9.8	506
Line 200N 175E	<0.5	2200	5	<0.5	272	38	0.8	83
Line 200N 200E	<0.5	2200	4	<0.5	281	43	0.8	137
Line 200N 225E	<0.5	3700	5	<0.5	210	38	0.6	299
Line 200N 250E	<0.5	3500	6	<0.5	233	48	0.6	252
Line 200N 275E	<0.5	3300	6	<0.5	229	36	0.5	260
Line 200N 300E	<0.5	2200	5	<0.5	187	35	0.5	343
Line 200N 300EB	<0.5	1100	5	<0.5	211	35	0.4	199
Line 200N 325E	<0.5	700	6	<0.5	189	36	0.4	231
Line 200N 350E	1.1	1200	5	1.9	152	52	1.2	537
Line 200N 375E	1.5	1200	4	4.4	109	74	2.5	791
Line 200N 400E	2.3	1600	5	9.5	96	74	4.0	811
Line 200N 425E	3.3	700	11	27.0	64	70	8.4	661
Line 200N 450E	5.6	6100	3	1.6	115	104	1.6	557
Line 200N 475E	0.6	2600	5	<0.5	151	54	0.6	165
Line 200N 500E	1.0	3100	4	<0.5	145	47	0.8	246
Line 200N 500EB	<0.5	2300	4	<0.5	153	30	0.7	214
Line 200N 525E	1.1	1200	4	5.7	77	41	4.2	408
Line 200N 550E	3.9	9900	5	1.1	68	63	1.3	164
Line 200N 575E	1.2	6200	3	<0.5	83	51	0.8	93
Line 200N 600E	1.8	7200	4	<0.5	84	51	0.8	102
Line 200N 625E	3.1	9800	5	1.0	73	62	1.3	166
Line 200N 650E	1.8	7700	5	<0.5	73	57	0.8	155
Line 200N 675E	1.5	6600	5	<0.5	72	61	0.6	139
Line 200N 700E	1.8	6800	5	<0.5	69	60	0.7	221
Line 200N 725E	1.9	6700	4	<0.5	64	59	0.6	208
Line 200N 750E	1.6	5400	4	<0.5	63	49	0.5	202

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppm	100 ppb	2 ppb	0.5 ppb	1 ppb	5 ppb	0.1 ppm	5 ppb
Line 200N 775E	44.4	4900	4	1.7	43	307	0.7	38
Line 200N 800E	39.4	4100	3	1.5	41	285	0.6	32
Line 200N 800EB	30.6	4800	3	1.9	55	203	0.9	37
Line 200N 825E	40.5	4300	3	2.4	51	267	0.7	42
Line 200N 850E	0.9	3900	5	<0.5	75	57	0.3	226
Line 200N 875E	0.8	3900	5	0.6	69	54	0.5	239
Line 200N 900E	2.3	3300	6	9.4	56	61	4.4	356
Line 200N 925E	8.4	1800	6	17.7	29	68	7.5	491
Line 200N 950E	65.4	8300	5	1.7	63	243	0.5	110
Line 200N 975E	28.9	8800	8	2.8	29	217	0.8	172
Line 200N 1000E	55.7	7800	5	1.9	58	266	0.5	161
Line 200N 1025E	43.5	4600	5	2.4	50	221	0.7	162
Line 200N 1050E	59.7	4900	4	1.8	59	226	0.5	203
Line 200N 1075E	61.3	7600	4	1.6	59	198	0.4	103
Line 200N 1100E	45.7	7000	11	2.2	41	335	0.6	345
Line 200N 1125E	34.3	5200	6	1.1	28	215	0.7	392
Line 200N 1150E	30.9	5500	6	0.8	23	176	0.9	928
Line 200N 1175E	35.9	2800	7	1.0	35	218	0.7	412
Line 200N 1200E	53.4	8600	20	2.3	75	288	0.6	130
Line 200N 1225E	42.2	6000	11	1.1	41	238	0.6	146
Line 200N 1250E	44.0	7700	10	1.1	32	250	0.6	121
Line 200N 1275E	34.4	3400	6	0.6	23	188	0.7	252
Line 200N 1300E	24.8	5800	4	0.7	16	168	1.2	771
Line 200N 1325E	27.0	3400	5	0.6	16	163	1.0	1010
Line 200N 1350E	47.5	2900	20	2.0	62	327	0.6	195
Line 200N 1375E	44.0	3700	12	1.6	58	237	0.6	209
Line 200N 1400E	50.2	3700	18	1.7	63	244	0.6	184
Line 200N 1425E	36.0	5400	7	0.6	21	151	0.7	210
Line 200N 1450E	30.3	6900	5	<0.5	15	166	0.8	375
Line 200N 1475E	31.0	8400	3	<0.5	19	143	0.9	113
Line 200N 1500E	34.0	2700	7	1.0	29	352	0.9	250
Line 200N 1525E	29.0	3600	5	0.7	19	192	0.8	307
Line 200N 1550E	35.3	5000	4	1.1	31	180	0.9	313
Line 200N 1575E	56.7	7000	16	3.3	94	384	0.5	263
Line 200N 1600E	37.0	4300	5	0.7	28	195	0.8	167
Line 200N 1625E	31.2	5600	4	0.6	18	159	0.9	211
Line 200N 1650E	50.8	1500	28	1.8	48	323	0.6	139
Line 200N 1675E	47.0	2300	10	0.7	24	193	0.6	132
Line 200N 1700E	52.3	1100	12	0.7	28	201	0.5	71
Line 200N 1725E	39.9	2700	13	0.8	28	189	0.8	213

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	100	2	0.5	1	5	0.1	5
	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppb
Line 200N 1750E	32.7	4400	4	<0.5	21	178	0.7	223
Line 200N 1775E	34.9	4500	5	0.7	29	196	0.9	1300
Line 200N 1800E	53.6	5200	17	2.2	80	312	0.6	155
Line 200N 1825E	41.8	3900	5	0.9	35	261	0.6	162
Line 200N 1850E	36.0	2900	4	0.6	24	165	0.7	293
Line 200N 1875E	48.1	2600	15	1.1	32	266	0.7	112
*Rep Line 0N 2050E	37.4	2400	3	<0.5	26	175	0.7	280
*Rep Line 200N 275E	<0.5	3500	6	<0.5	237	35	0.5	249
*Rep Line 200N 1300E	27.4	5500	4	0.7	20	170	1.1	677
*Rep Line 200N 1675E	47.1	3200	11	0.7	24	201	0.6	133
*Std MMISRM24	10.6	200	22	<0.5	24	138	0.6	233
*Std MMISRM19	203	6800	10	<0.5	20	2220	0.5	1230
*Blk BLANK	<0.5	<100	<2	<0.5	<1	<5	<0.1	<5
*Blk BLANK	<0.5	<100	<2	<0.5	<1	<5	<0.1	<5

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Element Method Det.Lim. Units	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 0N 2050E	<1	4.2	<0.1	28	<0.5	27	6	<1
Line 0N 2075E	<1	5.0	<0.1	15	0.5	13	7	<1
Line 0N 2100E	<1	6.9	<0.1	29	<0.5	30	9	<1
Line 0N 2125E	<1	5.6	<0.1	19	<0.5	12	6	<1
Line 0N 2150E	<1	5.8	<0.1	17	<0.5	16	7	<1
Line 0N 2175E	<1	5.2	<0.1	11	<0.5	8	6	<1
Line 0N 2200E	<1	7.6	<0.1	18	<0.5	13	7	<1
Line 200N 0E	<1	22.5	<0.1	116	<0.5	34	24	1
Line 200N 25E	<1	14.7	<0.1	131	1.1	45	14	2
Line 200N 50E	<1	11.6	<0.1	129	1.1	40	11	2
Line 200N 75E	<1	10.2	<0.1	123	1.4	44	8	3
Line 200N 100E	<1	9.7	<0.1	119	1.5	48	8	3
Line 200N 125E	<1	10.8	<0.1	149	2.0	46	9	13
Line 200N 150E	<1	9.1	<0.1	88	1.7	36	7	3
Line 200N 175E	<1	59.1	<0.1	94	<0.5	34	57	<1
Line 200N 200E	<1	59.4	<0.1	103	<0.5	33	58	<1
Line 200N 225E	<1	44.3	<0.1	111	<0.5	36	46	<1
Line 200N 250E	<1	49.2	<0.1	117	<0.5	36	53	<1
Line 200N 275E	<1	47.2	<0.1	122	<0.5	36	51	<1
Line 200N 300E	<1	38.4	<0.1	120	<0.5	35	43	<1
Line 200N 300EB	<1	41.7	<0.1	121	<0.5	36	47	<1
Line 200N 325E	<1	39.7	<0.1	144	<0.5	36	44	<1
Line 200N 350E	<1	32.9	<0.1	138	<0.5	48	33	<1
Line 200N 375E	<1	25.4	<0.1	125	0.6	52	25	2
Line 200N 400E	<1	22.2	<0.1	111	1.3	54	21	3
Line 200N 425E	<1	16.1	<0.1	124	2.7	51	13	8
Line 200N 450E	<1	25.0	<0.1	137	<0.5	36	27	<1
Line 200N 475E	<1	32.4	<0.1	147	<0.5	34	34	<1
Line 200N 500E	<1	31.4	<0.1	134	<0.5	37	32	<1
Line 200N 500EB	<1	31.9	<0.1	129	<0.5	42	33	<1
Line 200N 525E	<1	18.5	<0.1	86	1.2	54	16	1
Line 200N 550E	<1	14.8	<0.1	118	<0.5	23	17	<1
Line 200N 575E	<1	18.3	<0.1	145	<0.5	17	21	<1
Line 200N 600E	<1	17.5	<0.1	127	<0.5	19	21	<1
Line 200N 625E	<1	15.2	<0.1	119	<0.5	23	17	<1
Line 200N 650E	<1	14.7	<0.1	118	<0.5	21	19	<1
Line 200N 675E	<1	14.5	<0.1	113	<0.5	20	18	<1
Line 200N 700E	<1	14.3	<0.1	112	<0.5	26	17	<1
Line 200N 725E	<1	12.9	<0.1	117	<0.5	24	16	<1
Line 200N 750E	<1	12.9	<0.1	119	<0.5	24	16	<1

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Element Method Det.Lim. Units	Pd GE_MMI_M 1 ppb	Pr GE_MMI_M 0.5 ppb	Pt GE_MMI_M 0.1 ppb	Rb GE_MMI_M 1 ppb	Sb GE_MMI_M 0.5 ppb	Sc GE_MMI_M 5 ppb	Sm GE_MMI_M 1 ppb	Sn GE_MMI_M 1 ppb
Line 200N 775E	<1	8.7	<0.1	75	<0.5	6	9	<1
Line 200N 800E	<1	8.4	<0.1	72	<0.5	6	8	<1
Line 200N 800EB	<1	12.0	<0.1	68	<0.5	7	11	<1
Line 200N 825E	<1	11.1	<0.1	77	<0.5	8	10	<1
Line 200N 850E	<1	16.4	<0.1	132	<0.5	28	19	<1
Line 200N 875E	<1	15.3	<0.1	124	<0.5	27	15	<1
Line 200N 900E	<1	14.7	<0.1	95	1.2	49	11	3
Line 200N 925E	<1	7.9	<0.1	35	1.3	44	6	8
Line 200N 950E	<1	15.1	<0.1	63	<0.5	20	11	<1
Line 200N 975E	<1	7.1	<0.1	94	<0.5	39	6	<1
Line 200N 1000E	<1	13.9	<0.1	58	<0.5	29	11	<1
Line 200N 1025E	<1	11.8	<0.1	75	<0.5	32	11	<1
Line 200N 1050E	<1	14.9	<0.1	50	<0.5	25	11	<1
Line 200N 1075E	<1	14.3	<0.1	43	<0.5	19	11	<1
Line 200N 1100E	<1	10.0	<0.1	39	<0.5	49	10	<1
Line 200N 1125E	<1	6.5	<0.1	31	<0.5	35	7	<1
Line 200N 1150E	<1	5.0	<0.1	29	1.4	20	6	<1
Line 200N 1175E	<1	8.2	<0.1	22	<0.5	24	9	2
Line 200N 1200E	<1	18.6	<0.1	31	<0.5	33	14	<1
Line 200N 1225E	<1	9.3	<0.1	25	<0.5	22	8	<1
Line 200N 1250E	<1	7.4	<0.1	27	<0.5	28	7	<1
Line 200N 1275E	<1	4.8	<0.1	22	<0.5	26	6	<1
Line 200N 1300E	<1	3.5	<0.1	35	0.7	26	4	<1
Line 200N 1325E	<1	3.3	<0.1	32	1.2	31	4	<1
Line 200N 1350E	<1	14.5	<0.1	26	<0.5	29	12	<1
Line 200N 1375E	<1	14.6	<0.1	29	<0.5	31	12	<1
Line 200N 1400E	<1	14.7	<0.1	30	<0.5	30	12	<1
Line 200N 1425E	<1	4.4	<0.1	20	<0.5	20	4	<1
Line 200N 1450E	<1	3.4	<0.1	19	0.7	16	4	<1
Line 200N 1475E	<1	4.3	<0.1	43	<0.5	19	5	<1
Line 200N 1500E	<1	6.3	<0.1	23	<0.5	31	7	<1
Line 200N 1525E	<1	4.2	<0.1	28	<0.5	25	5	<1
Line 200N 1550E	<1	7.1	<0.1	37	<0.5	26	7	<1
Line 200N 1575E	<1	23.7	<0.1	36	<0.5	48	19	<1
Line 200N 1600E	<1	6.4	<0.1	27	<0.5	27	6	<1
Line 200N 1625E	<1	4.0	<0.1	30	<0.5	21	4	<1
Line 200N 1650E	<1	11.3	<0.1	23	<0.5	23	10	<1
Line 200N 1675E	<1	5.4	<0.1	16	<0.5	17	5	<1
Line 200N 1700E	<1	6.5	<0.1	11	<0.5	12	6	<1
Line 200N 1725E	<1	6.0	<0.1	16	<0.5	24	7	<1

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Element Method Det.Lim. Units	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 200N 1750E	<1	4.7	<0.1	17	<0.5	21	5	<1
Line 200N 1775E	<1	6.7	<0.1	37	0.7	16	8	<1
Line 200N 1800E	<1	19.0	<0.1	35	<0.5	33	14	<1
Line 200N 1825E	<1	8.1	<0.1	29	<0.5	26	8	<1
Line 200N 1850E	<1	5.2	<0.1	16	<0.5	23	7	<1
Line 200N 1875E	<1	7.9	<0.1	18	<0.5	20	7	<1
*Rep Line 0N 2050E	<1	5.1	<0.1	25	<0.5	25	7	<1
*Rep Line 200N 275E	<1	48.5	<0.1	117	<0.5	34	50	<1
*Rep Line 200N 1300E	<1	4.4	<0.1	35	0.6	22	5	<1
*Rep Line 200N 1675E	<1	5.2	<0.1	16	<0.5	16	5	<1
*Std MMISRM24	6	5.7	3.0	126	<0.5	<5	6	<1
*Std MMISRM19	<1	3.2	<0.1	215	1.0	19	9	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1

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Element Method Det.Lim. Units	Sr GE_MMI_M 10 ppb	Ta GE_MMI_M 1 ppb	Tb GE_MMI_M 0.1 ppb	Te GE_MMI_M 10 ppb	Th GE_MMI_M 0.5 ppb	Ti GE_MMI_M 10 ppb	Tl GE_MMI_M 0.1 ppb	U GE_MMI_M 0.5 ppb
Line 0N 2050E	470	<1	1.6	<10	7.1	120	0.4	30.4
Line 0N 2075E	380	<1	1.1	<10	3.8	70	0.1	9.1
Line 0N 2100E	520	<1	1.8	<10	9.9	130	0.5	35.8
Line 0N 2125E	600	<1	0.8	<10	3.8	80	0.4	23.5
Line 0N 2150E	510	<1	1.1	<10	3.8	90	0.1	18.3
Line 0N 2175E	390	<1	0.8	<10	2.7	60	0.1	6.2
Line 0N 2200E	550	<1	1.1	<10	4.2	60	0.2	19.9
Line 200N 0E	100	<1	2.7	<10	12.7	820	0.4	5.7
Line 200N 25E	130	<1	1.7	<10	17.7	1880	0.5	5.6
Line 200N 50E	120	<1	1.4	<10	16.8	1610	0.4	5.3
Line 200N 75E	120	<1	1.2	<10	19.2	2340	0.6	5.4
Line 200N 100E	120	<1	1.1	<10	21.2	3200	0.6	5.3
Line 200N 125E	70	<1	1.2	<10	19.5	2860	0.6	5.9
Line 200N 150E	70	<1	0.9	<10	20.4	3480	0.5	4.8
Line 200N 175E	50	<1	5.8	<10	4.5	20	0.3	5.5
Line 200N 200E	50	<1	6.2	<10	5.5	40	0.3	5.2
Line 200N 225E	30	<1	5.1	<10	5.1	60	0.3	5.8
Line 200N 250E	30	<1	5.6	<10	3.9	30	0.4	5.6
Line 200N 275E	20	<1	5.7	<10	3.8	30	0.3	5.0
Line 200N 300E	20	<1	4.8	<10	5.6	90	0.2	5.7
Line 200N 300EB	20	<1	5.1	<10	2.6	10	0.2	4.4
Line 200N 325E	20	<1	4.8	<10	3.0	20	0.2	4.7
Line 200N 350E	40	<1	3.8	<10	12.0	580	0.3	6.3
Line 200N 375E	60	<1	3.2	<10	18.1	1370	0.3	6.3
Line 200N 400E	60	<1	2.6	<10	23.4	2920	0.3	6.6
Line 200N 425E	80	1	1.5	<10	39.7	7540	0.5	6.0
Line 200N 450E	120	<1	3.5	<10	15.6	510	0.4	6.1
Line 200N 475E	50	<1	4.0	<10	4.6	40	0.3	4.8
Line 200N 500E	40	<1	3.7	<10	8.8	170	0.3	6.5
Line 200N 500EB	10	<1	3.4	<10	9.4	180	0.3	6.3
Line 200N 525E	40	<1	1.9	<10	23.1	1620	0.4	6.3
Line 200N 550E	90	<1	2.2	<10	14.0	340	0.4	6.1
Line 200N 575E	60	<1	2.6	<10	10.7	110	0.2	5.8
Line 200N 600E	70	<1	2.6	<10	10.2	130	0.3	6.1
Line 200N 625E	80	<1	2.4	<10	13.1	370	0.3	6.4
Line 200N 650E	60	<1	2.3	<10	9.8	140	0.3	6.2
Line 200N 675E	50	<1	2.3	<10	7.0	80	0.4	5.5
Line 200N 700E	50	<1	2.1	<10	9.4	180	0.4	5.7
Line 200N 725E	50	<1	2.0	<10	8.2	110	0.4	5.6
Line 200N 750E	40	<1	2.0	<10	6.6	70	0.3	5.3

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Element Method Det.Lim. Units	Sr GE_MMI_M 10 ppb	Ta GE_MMI_M 1 ppb	Tb GE_MMI_M 0.1 ppb	Te GE_MMI_M 10 ppb	Th GE_MMI_M 0.5 ppb	Ti GE_MMI_M 10 ppb	Tl GE_MMI_M 0.1 ppb	U GE_MMI_M 0.5 ppb
Line 200N 775E	350	<1	1.0	<10	25.3	120	0.4	9.6
Line 200N 800E	360	<1	1.0	<10	24.2	130	0.3	8.5
Line 200N 800EB	360	<1	1.1	<10	25.4	180	0.5	6.1
Line 200N 825E	430	<1	1.2	<10	27.1	130	0.5	8.6
Line 200N 850E	40	<1	2.1	<10	5.3	30	0.4	5.0
Line 200N 875E	50	<1	1.8	<10	8.6	130	0.3	4.8
Line 200N 900E	80	<1	1.4	<10	18.7	2820	0.5	4.9
Line 200N 925E	220	1	0.7	<10	15.0	5880	0.4	3.3
Line 200N 950E	420	<1	1.3	<10	21.1	100	0.4	22.3
Line 200N 975E	430	<1	0.8	<10	16.6	390	0.5	36.3
Line 200N 1000E	480	<1	1.4	<10	20.4	160	0.4	27.0
Line 200N 1025E	430	<1	1.3	<10	18.6	260	0.4	34.3
Line 200N 1050E	420	<1	1.3	<10	19.5	110	0.3	21.0
Line 200N 1075E	440	<1	1.1	<10	18.9	120	0.2	14.7
Line 200N 1100E	540	<1	1.8	<10	10.3	160	0.2	110
Line 200N 1125E	420	<1	1.4	<10	7.3	140	0.2	41.1
Line 200N 1150E	370	<1	1.1	<10	5.0	90	0.2	13.3
Line 200N 1175E	430	<1	1.3	<10	5.3	90	0.2	26.1
Line 200N 1200E	600	<1	1.6	<10	8.3	140	0.2	98.4
Line 200N 1225E	490	<1	1.1	<10	5.3	90	0.3	36.4
Line 200N 1250E	520	<1	1.0	<10	4.9	100	0.3	39.8
Line 200N 1275E	380	<1	1.0	<10	4.3	80	0.3	17.8
Line 200N 1300E	310	<1	0.9	<10	5.6	140	0.4	13.5
Line 200N 1325E	320	<1	0.9	<10	4.9	120	0.3	11.0
Line 200N 1350E	530	<1	1.5	<10	8.2	150	0.2	40.7
Line 200N 1375E	490	<1	1.5	<10	7.7	130	0.3	38.1
Line 200N 1400E	570	<1	1.6	<10	7.8	110	0.3	47.0
Line 200N 1425E	410	<1	0.9	<10	3.7	70	0.2	22.7
Line 200N 1450E	360	<1	0.7	<10	4.0	80	0.3	10.0
Line 200N 1475E	390	<1	0.8	<10	4.2	80	0.4	18.1
Line 200N 1500E	390	<1	1.3	<10	7.5	160	1.0	25.4
Line 200N 1525E	330	<1	1.1	<10	5.2	130	0.4	23.2
Line 200N 1550E	410	<1	1.2	<10	6.3	160	0.3	36.5
Line 200N 1575E	600	<1	2.2	<10	11.9	180	0.4	164
Line 200N 1600E	410	<1	1.0	<10	4.5	100	0.3	19.0
Line 200N 1625E	370	<1	0.8	<10	3.7	80	0.3	10.4
Line 200N 1650E	580	<1	1.3	<10	5.8	100	0.3	37.0
Line 200N 1675E	520	<1	0.8	<10	3.5	60	0.3	13.2
Line 200N 1700E	550	<1	0.8	<10	4.0	60	0.3	13.6
Line 200N 1725E	440	<1	1.1	<10	4.4	70	0.2	19.5

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Element Method Det.Lim. Units	Sr GE_MMI_M 10 ppb	Ta GE_MMI_M 1 ppb	Tb GE_MMI_M 0.1 ppb	Te GE_MMI_M 10 ppb	Th GE_MMI_M 0.5 ppb	Ti GE_MMI_M 10 ppb	Tl GE_MMI_M 0.1 ppb	U GE_MMI_M 0.5 ppb
Line 200N 1750E	370	<1	1.0	<10	4.2	70	0.3	11.4
Line 200N 1775E	410	<1	1.1	<10	4.6	80	0.4	9.4
Line 200N 1800E	610	<1	1.6	<10	9.0	110	0.2	50.5
Line 200N 1825E	470	<1	1.1	<10	5.1	100	0.3	28.1
Line 200N 1850E	410	<1	1.3	<10	4.6	80	0.2	16.6
Line 200N 1875E	530	<1	1.0	<10	4.5	100	0.3	25.1
*Rep Line 0N 2050E	450	<1	1.8	<10	6.9	120	0.3	24.4
*Rep Line 200N 275E	20	<1	5.5	<10	3.6	30	0.3	5.0
*Rep Line 200N 1300E	340	<1	1.0	<10	5.2	120	0.4	12.5
*Rep Line 200N 1675E	520	<1	0.9	<10	3.4	70	0.2	14.8
*Std MMISRM24	1350	<1	0.7	<10	18.2	60	0.2	10.5
*Std MMISRM19	3640	<1	2.2	<10	19.6	<10	0.9	65.1
*Blk BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5
*Blk BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5

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Element Method Det.Lim. Units	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	1	0.2	10	2
	ppb	ppb	ppb	ppb	ppb
Line 0N 2050E	<0.5	86	6.7	3520	13
Line 0N 2075E	<0.5	47	3.7	1830	7
Line 0N 2100E	<0.5	80	6.3	3740	13
Line 0N 2125E	0.5	31	2.5	2710	8
Line 0N 2150E	<0.5	47	3.4	1730	10
Line 0N 2175E	<0.5	28	2.2	1770	6
Line 0N 2200E	<0.5	37	2.8	1750	9
Line 200N 0E	<0.5	66	4.4	920	32
Line 200N 25E	0.7	46	3.8	1300	53
Line 200N 50E	0.5	35	3.1	1160	48
Line 200N 75E	0.8	30	2.7	1540	57
Line 200N 100E	0.9	28	2.8	1470	69
Line 200N 125E	1.4	31	2.8	1180	66
Line 200N 150E	1.0	27	2.5	1250	70
Line 200N 175E	<0.5	153	8.9	80	9
Line 200N 200E	<0.5	162	9.3	110	10
Line 200N 225E	<0.5	135	8.0	270	12
Line 200N 250E	<0.5	148	8.6	160	10
Line 200N 275E	<0.5	153	8.3	120	10
Line 200N 300E	<0.5	124	7.8	160	13
Line 200N 300EB	<0.5	128	8.2	80	7
Line 200N 325E	<0.5	125	8.4	90	8
Line 200N 350E	<0.5	103	7.4	270	26
Line 200N 375E	<0.5	82	6.5	540	43
Line 200N 400E	0.8	68	5.8	510	65
Line 200N 425E	2.3	36	3.3	290	131
Line 200N 450E	<0.5	78	5.5	1590	29
Line 200N 475E	<0.5	90	6.1	160	12
Line 200N 500E	<0.5	90	6.3	290	21
Line 200N 500EB	<0.5	88	6.7	170	23
Line 200N 525E	<0.5	47	4.3	310	63
Line 200N 550E	<0.5	49	3.7	2120	30
Line 200N 575E	<0.5	55	4.1	520	23
Line 200N 600E	<0.5	53	4.0	520	21
Line 200N 625E	<0.5	50	4.3	830	29
Line 200N 650E	<0.5	48	3.8	520	21
Line 200N 675E	<0.5	48	3.8	430	17
Line 200N 700E	<0.5	48	4.1	500	22
Line 200N 725E	<0.5	44	3.4	520	19
Line 200N 750E	<0.5	44	3.7	460	16

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Element Method Det.Lim. Units	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	1	0.2	10	2
	ppb	ppb	ppb	ppb	ppb
Line 200N 775E	0.7	31	2.8	310	38
Line 200N 800E	0.5	31	2.8	260	38
Line 200N 800EB	0.6	33	2.9	260	45
Line 200N 825E	0.7	34	2.7	220	42
Line 200N 850E	<0.5	48	4.3	270	13
Line 200N 875E	<0.5	41	3.8	250	19
Line 200N 900E	1.0	36	3.2	480	73
Line 200N 925E	2.0	21	2.0	800	93
Line 200N 950E	<0.5	41	3.8	1300	24
Line 200N 975E	0.7	29	3.1	1090	54
Line 200N 1000E	<0.5	46	4.3	1840	38
Line 200N 1025E	<0.5	46	3.9	1420	50
Line 200N 1050E	<0.5	45	4.5	1660	34
Line 200N 1075E	<0.5	36	3.5	1230	25
Line 200N 1100E	<0.5	77	6.7	1780	36
Line 200N 1125E	<0.5	57	5.0	1840	21
Line 200N 1150E	<0.5	43	3.9	2290	12
Line 200N 1175E	<0.5	50	4.2	2060	15
Line 200N 1200E	0.8	59	5.2	1140	30
Line 200N 1225E	0.6	40	3.5	1410	15
Line 200N 1250E	0.6	37	3.1	1310	15
Line 200N 1275E	<0.5	42	3.7	2620	11
Line 200N 1300E	<0.5	41	4.6	3660	14
Line 200N 1325E	<0.5	40	3.6	3680	11
Line 200N 1350E	0.8	50	4.4	1470	21
Line 200N 1375E	<0.5	52	4.3	1790	18
Line 200N 1400E	<0.5	56	4.9	1880	18
Line 200N 1425E	<0.5	36	3.1	2460	10
Line 200N 1450E	<0.5	28	2.4	3270	9
Line 200N 1475E	<0.5	30	2.7	3620	13
Line 200N 1500E	<0.5	59	4.6	3850	15
Line 200N 1525E	<0.5	47	4.2	3480	15
Line 200N 1550E	<0.5	46	4.3	3920	22
Line 200N 1575E	0.7	81	7.0	2780	50
Line 200N 1600E	<0.5	37	3.2	2080	11
Line 200N 1625E	<0.5	32	3.0	2550	10
Line 200N 1650E	0.9	43	3.7	1530	15
Line 200N 1675E	0.6	34	2.6	1850	8
Line 200N 1700E	0.7	31	2.5	1930	8
Line 200N 1725E	<0.5	45	3.8	1810	9

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Element Method Det.Lim. Units	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	1	0.2	10	2
	ppb	ppb	ppb	ppb	ppb
Line 200N 1750E	<0.5	42	3.7	2800	9
Line 200N 1775E	<0.5	39	3.5	4650	10
Line 200N 1800E	0.8	55	4.6	1040	21
Line 200N 1825E	<0.5	43	3.7	2060	16
Line 200N 1850E	<0.5	53	4.5	2230	10
Line 200N 1875E	0.7	36	2.9	1830	13
*Rep Line 0N 2050E	<0.5	89	6.7	3500	12
*Rep Line 200N 275E	<0.5	151	8.2	110	10
*Rep Line 200N 1300E	<0.5	43	4.1	3300	13
*Rep Line 200N 1675E	<0.5	33	2.6	1780	8
*Std MMISRM24	<0.5	22	1.1	170	28
*Std MMISRM19	<0.5	73	5.9	2540	16
*Blk BLANK	<0.5	<1	<0.2	<10	<2
*Blk BLANK	<0.5	<1	<0.2	<10	<2

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Certificate of Analysis
Work Order : VC183052
[Report File No.: 000031718]

Date: September 26, 2018

To: Charles Gryba
COD SGS MINERALS - GEOCHEM VANCOUVER
Central Timmins Exploration Corp.
200 Bay Street, Suite 2350
Toronto
ONT M5J 2J2

P.O. No.: Central Timmins Exploration Corp.
Project No.: -
Samples: 86
Received: Aug 21, 2018
Pages: Page 1 to 22
(Inclusive of Cover Sheet)

Methods Summary

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

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE 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

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppb	1 ppm	10 ppb	0.1 ppb	10 ppb	0.5 ppb	2 ppm	1 ppb
Line 200N 1900E	<0.5	70	<10	<0.1	330	<0.5	291	42
Line 200N 1925E	<0.5	62	<10	<0.1	330	<0.5	263	37
Line 200N 1950E	<0.5	69	<10	<0.1	360	<0.5	244	50
Line 200N 1975E	<0.5	71	<10	<0.1	350	0.7	170	69
Line 200N 2000E	<0.5	70	<10	<0.1	390	0.8	155	96
Line 200N 2000EB	4.8	86	<10	<0.1	1040	<0.5	280	29
Line 200N 2025E	0.6	66	<10	<0.1	270	<0.5	241	55
Line 200N 2050E	<0.5	69	10	<0.1	280	0.5	169	61
Line 200N 2075E	1.1	62	<10	<0.1	670	<0.5	324	41
Line 200N 2100E	0.6	67	<10	<0.1	260	<0.5	266	58
Line 200N 2125E	<0.5	70	<10	<0.1	330	<0.5	203	77
Line 200N 2150E	3.3	94	<10	<0.1	670	<0.5	260	64
Line 200N 2175E	<0.5	99	<10	<0.1	380	<0.5	215	56
Line 200N 2200E	<0.5	81	<10	<0.1	340	<0.5	238	70
Line 400N 0E	1.2	130	60	0.2	570	4.9	19	8
Line 400N 25E	2.2	293	40	<0.1	530	1.0	3	8
Line 400N 50E	1.8	248	30	<0.1	430	1.5	10	9
Line 400N 75E	1.7	271	40	<0.1	560	1.6	18	10
Line 400N 100E	2.9	266	30	<0.1	400	1.0	3	10
Line 400N 125E	1.7	156	20	<0.1	380	1.3	24	9
Line 400N 150E	4.0	288	40	<0.1	610	1.2	3	7
Line 400N 175E	6.5	122	10	0.1	180	<0.5	4	5
Line 400N 200E	6.9	239	20	<0.1	290	0.6	2	11
Line 400N 225E	6.2	189	10	<0.1	200	1.2	11	11
Line 400N 250E	3.9	159	<10	0.1	240	1.0	41	22
Line 400N 275E	0.6	93	30	0.2	620	7.8	35	22
Line 400N 275EB	11.0	99	<10	<0.1	230	<0.5	11	13
Line 400N 300E	2.2	264	50	0.1	640	3.4	13	15
Line 400N 325E	2.6	68	<10	<0.1	240	<0.5	14	11
Line 400N 350E	1.7	144	10	0.1	260	1.2	34	20
Line 400N 375E	1.4	213	20	0.1	300	2.8	19	23
Line 400N 400E	4.5	63	<10	0.1	360	0.6	19	12
Line 400N 425E	2.9	266	40	<0.1	430	2.2	5	13
Line 400N 450E	3.0	46	<10	<0.1	270	<0.5	15	6
Line 400N 475E	2.0	341	90	<0.1	770	3.6	3	9
Line 400N 500E	3.2	64	<10	<0.1	350	<0.5	32	15
Line 400N 525E	3.8	123	10	<0.1	210	0.7	14	12
Line 400N 550E	3.0	198	20	0.2	230	1.3	18	19
Line 400N 550EB	4.5	92	10	0.2	440	1.0	35	18
Line 400N 575E	8.1	88	<10	<0.1	360	<0.5	25	19

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppm	GE_MMI_M 10 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 2 ppm	GE_MMI_M 1 ppb
Line 400N 600E	4.2	276	40	0.1	400	1.3	4	12
Line 400N 625E	7.0	105	<10	<0.1	350	<0.5	30	18
Line 400N 650E	1.2	93	<10	<0.1	630	<0.5	12	10
Line 400N 675E	4.4	15	<10	<0.1	440	<0.5	329	10
Line 400N 700E	4.9	15	<10	0.1	390	<0.5	325	12
Line 400N 725E	9.2	201	20	<0.1	430	1.0	29	18
Line 400N 750E	1.6	82	<10	<0.1	540	<0.5	12	12
Line 400N 775E	5.6	285	40	<0.1	370	1.4	17	15
Line 400N 800E	4.8	97	<10	0.1	450	0.8	19	13
Line 400N 800EB	1.9	76	<10	<0.1	250	<0.5	14	17
Line 400N 825E	3.9	85	<10	<0.1	380	0.6	13	12
Line 400N 850E	<0.5	147	<10	<0.1	130	12.5	33	49
Line 400N 875E	6.5	135	10	<0.1	230	0.7	8	12
Line 400N 900E	4.9	249	30	<0.1	220	0.8	3	9
Line 400N 925E	4.1	160	10	<0.1	230	1.7	16	17
Line 400N 950E	2.2	41	<10	<0.1	560	<0.5	351	51
Line 400N 975E	1.7	40	<10	<0.1	540	<0.5	359	42
Line 400N 1000E	3.8	60	<10	<0.1	940	<0.5	295	19
Line 400N 1025E	1.5	46	<10	<0.1	540	<0.5	320	31
Line 400N 1050E	2.8	32	<10	0.1	530	<0.5	390	35
Line 400N 1075E	2.3	32	<10	<0.1	450	<0.5	370	36
Line 400N 1100E	<0.5	54	<10	<0.1	250	<0.5	308	54
Line 400N 1125E	<0.5	44	<10	<0.1	170	<0.5	351	50
Line 400N 1150E	<0.5	51	<10	<0.1	190	<0.5	348	38
Line 400N 1175E	<0.5	82	<10	<0.1	330	<0.5	262	57
Line 400N 1200E	<0.5	43	<10	<0.1	150	<0.5	294	57
Line 400N 1225E	<0.5	42	<10	<0.1	120	<0.5	308	37
Line 400N 1250E	<0.5	87	<10	<0.1	270	<0.5	166	69
Line 400N 1275E	<0.5	56	<10	<0.1	260	<0.5	322	52
Line 400N 1300E	<0.5	88	<10	<0.1	250	<0.5	253	98
Line 400N 1325E	<0.5	61	<10	<0.1	240	<0.5	314	53
Line 400N 1350E	<0.5	65	<10	<0.1	230	<0.5	312	33
Line 400N 1375E	<0.5	73	<10	<0.1	260	<0.5	253	56
Line 400N 1400E	<0.5	72	<10	<0.1	330	<0.5	214	63
Line 400N 1425E	<0.5	33	<10	<0.1	110	<0.5	350	32
Line 400N 1450E	<0.5	77	<10	<0.1	240	<0.5	184	84
Line 400N 1475E	<0.5	81	<10	<0.1	200	<0.5	206	105
Line 400N 1500E	<0.5	76	<10	<0.1	180	<0.5	198	142
Line 400N 1525E	<0.5	67	<10	<0.1	200	<0.5	263	57
Line 400N 1550E	<0.5	94	<10	<0.1	300	<0.5	207	82

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppm	GE_MMI_M 10 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 2 ppm	GE_MMI_M 1 ppb
Line 400N 1575E	<0.5	68	<10	<0.1	190	<0.5	280	67
Line 400N 1600E	<0.5	48	<10	<0.1	160	<0.5	339	38
Line 400N 1600EB	<0.5	99	<10	<0.1	330	<0.5	170	71
Line 400N 1625E	0.5	17	<10	<0.1	260	<0.5	429	10
Line 400N 1650E	3.2	86	<10	<0.1	670	<0.5	365	24
Line 400N 1675E	<0.5	77	<10	<0.1	220	<0.5	285	37
*Rep Line 200N 2000E	<0.5	74	10	<0.1	390	0.6	169	95
*Rep Line 400N 325E	2.2	73	<10	<0.1	230	<0.5	14	9
*Rep Line 400N 875E	5.7	149	20	<0.1	240	0.7	11	13
*Rep Line 400N 1050E	2.9	31	<10	<0.1	530	<0.5	379	35
*Rep Line 400N 1450E	<0.5	77	<10	<0.1	230	<0.5	200	84
*Std MMISRM24	19.3	35	<10	3.4	130	<0.5	57	6
*Std MMISRM19	26.8	22	<10	5.5	1410	<0.5	728	39
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1

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Element Method Det.Lim. Units	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
	GE_MMI_M 2 ppb	GE_MMI_M 1 ppb	GE_MMI_M 100 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 0.2 ppb
Line 200N 1900E	53	15	<100	0.4	70	5.4	3.3	1.3
Line 200N 1925E	37	24	<100	0.4	70	4.7	3.0	1.0
Line 200N 1950E	65	10	<100	0.4	60	6.4	4.1	1.4
Line 200N 1975E	53	20	<100	0.5	90	7.4	4.9	1.3
Line 200N 2000E	52	23	<100	0.5	90	7.4	5.1	1.2
Line 200N 2000EB	138	90	<100	1.3	650	13.6	8.0	3.2
Line 200N 2025E	54	9	<100	0.3	60	6.2	4.0	1.3
Line 200N 2050E	39	37	<100	0.6	80	5.3	3.9	1.0
Line 200N 2075E	102	24	<100	0.6	240	7.1	3.9	2.1
Line 200N 2100E	47	8	<100	0.3	70	5.6	3.4	1.3
Line 200N 2125E	56	24	<100	0.5	90	7.1	4.3	1.4
Line 200N 2150E	101	95	<100	0.8	170	16.0	10.2	2.8
Line 200N 2175E	64	115	<100	0.4	170	14.3	9.8	1.8
Line 200N 2200E	58	15	<100	0.5	100	11.7	8.2	1.9
Line 400N 0E	44	5	<100	1.0	250	2.6	1.5	1.0
Line 400N 25E	103	8	100	4.2	340	6.7	3.2	3.3
Line 400N 50E	115	14	100	3.1	280	8.7	4.4	4.1
Line 400N 75E	129	21	100	3.5	310	9.0	4.4	4.3
Line 400N 100E	97	9	<100	3.2	290	6.9	3.4	3.2
Line 400N 125E	134	23	<100	2.8	210	12.0	5.7	6.4
Line 400N 150E	112	7	100	3.0	380	5.6	2.3	2.9
Line 400N 175E	125	12	<100	4.5	160	13.1	6.8	6.7
Line 400N 200E	111	25	<100	5.9	260	8.9	4.4	4.0
Line 400N 225E	128	27	<100	5.1	260	11.6	6.2	5.3
Line 400N 250E	137	33	<100	4.2	250	15.9	8.1	7.2
Line 400N 275E	51	9	<100	0.9	370	3.6	1.7	1.1
Line 400N 275EB	233	37	<100	5.1	160	27.5	12.4	13.4
Line 400N 300E	83	11	100	1.9	280	6.1	3.2	2.8
Line 400N 325E	155	20	<100	4.1	100	20.4	9.2	10.8
Line 400N 350E	104	23	<100	4.0	230	14.6	6.9	6.7
Line 400N 375E	99	22	<100	2.8	290	10.3	5.7	4.8
Line 400N 400E	154	24	<100	3.3	160	19.5	8.1	9.6
Line 400N 425E	131	12	100	3.1	280	10.0	5.3	4.7
Line 400N 450E	135	20	<100	3.3	70	18.4	7.6	8.9
Line 400N 475E	76	9	200	2.3	310	5.2	2.3	2.2
Line 400N 500E	97	20	<100	3.3	150	14.4	6.6	7.5
Line 400N 525E	107	16	<100	4.4	160	14.3	7.1	7.1
Line 400N 550E	89	13	<100	5.0	270	10.0	5.2	4.8
Line 400N 550EB	107	20	<100	3.3	260	13.2	5.6	6.6
Line 400N 575E	131	21	<100	3.6	170	15.5	6.6	8.1

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Element Method Det.Lim. Units	Ce GE_MMI_M 2 ppb	Co GE_MMI_M 1 ppb	Cr GE_MMI_M 100 ppb	Cs GE_MMI_M 0.2 ppb	Cu GE_MMI_M 10 ppb	Dy GE_MMI_M 0.5 ppb	Er GE_MMI_M 0.2 ppb	Eu GE_MMI_M 0.2 ppb
Line 400N 600E	103	10	100	4.0	270	7.3	3.9	3.7
Line 400N 625E	225	31	<100	4.6	200	26.8	11.9	13.2
Line 400N 650E	109	49	<100	3.9	130	11.7	5.2	5.4
Line 400N 675E	28	51	<100	0.8	1250	4.2	2.2	1.4
Line 400N 700E	31	41	<100	0.8	1500	3.9	2.5	1.3
Line 400N 725E	229	35	<100	4.4	290	21.1	10.0	10.1
Line 400N 750E	111	41	<100	3.3	140	11.3	5.0	5.5
Line 400N 775E	159	20	100	4.2	370	11.1	5.7	5.1
Line 400N 800E	199	23	<100	2.7	150	20.5	8.6	10.6
Line 400N 800EB	111	56	<100	3.3	170	11.3	5.2	5.8
Line 400N 825E	220	26	<100	2.9	130	20.8	9.4	11.4
Line 400N 850E	51	68	<100	2.5	450	6.8	3.6	2.9
Line 400N 875E	135	22	<100	3.7	170	11.9	6.0	6.6
Line 400N 900E	106	9	<100	3.3	320	7.5	3.5	3.7
Line 400N 925E	73	19	<100	2.6	270	7.7	4.1	3.7
Line 400N 950E	115	18	<100	0.4	120	5.8	3.3	2.1
Line 400N 975E	90	34	<100	0.5	140	5.3	3.0	1.7
Line 400N 1000E	225	74	<100	0.7	570	11.6	6.7	3.7
Line 400N 1025E	127	25	<100	0.6	160	7.4	4.2	2.3
Line 400N 1050E	101	27	<100	0.6	170	4.7	2.6	1.5
Line 400N 1075E	106	12	<100	0.5	90	4.7	2.9	1.6
Line 400N 1100E	40	22	<100	0.5	30	3.9	2.3	0.8
Line 400N 1125E	32	14	<100	<0.2	20	2.5	1.6	0.6
Line 400N 1150E	44	10	<100	<0.2	20	3.6	2.1	0.9
Line 400N 1175E	60	14	<100	0.3	90	10.8	7.4	1.7
Line 400N 1200E	40	17	<100	<0.2	40	3.5	2.4	0.7
Line 400N 1225E	45	14	<100	<0.2	30	2.8	1.6	0.6
Line 400N 1250E	34	21	<100	0.5	130	15.8	12.0	1.4
Line 400N 1275E	41	18	<100	0.3	30	4.5	3.1	0.9
Line 400N 1300E	82	15	<100	0.6	100	15.2	11.5	2.0
Line 400N 1325E	43	17	<100	<0.2	30	4.3	2.9	0.8
Line 400N 1350E	52	17	<100	0.4	30	5.1	3.2	1.1
Line 400N 1375E	56	9	<100	0.4	60	7.2	5.3	1.2
Line 400N 1400E	47	22	<100	0.2	80	8.0	5.4	1.3
Line 400N 1425E	18	16	<100	0.2	20	1.4	1.0	0.4
Line 400N 1450E	74	32	<100	0.7	80	8.6	5.7	1.5
Line 400N 1475E	75	8	<100	0.5	170	17.0	13.3	2.1
Line 400N 1500E	59	9	<100	0.4	160	13.2	10.7	1.7
Line 400N 1525E	72	16	<100	0.4	60	7.7	5.1	1.3
Line 400N 1550E	54	27	<100	0.8	100	13.7	9.5	1.8

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Element Method Det.Lim. Units	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
	GE_MMI_M 2 ppb	GE_MMI_M 1 ppb	GE_MMI_M 100 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 0.2 ppb
Line 400N 1575E	50	31	<100	0.5	60	5.2	4.0	0.9
Line 400N 1600E	38	11	<100	<0.2	20	2.3	1.6	0.6
Line 400N 1600EB	62	36	<100	0.5	100	19.0	13.1	2.0
Line 400N 1625E	8	5	<100	0.3	30	0.6	0.3	<0.2
Line 400N 1650E	140	21	<100	0.5	110	7.8	4.5	2.1
Line 400N 1675E	47	26	<100	0.4	100	8.7	5.9	1.6
*Rep Line 200N 2000E	60	23	<100	0.5	90	7.5	4.7	1.4
*Rep Line 400N 325E	150	16	<100	4.1	110	20.0	8.5	9.8
*Rep Line 400N 875E	121	21	<100	3.4	180	11.6	5.9	6.0
*Rep Line 400N 1050E	99	26	<100	0.6	140	4.7	2.6	1.6
*Rep Line 400N 1450E	89	27	<100	0.6	80	7.9	5.0	1.6
*Std MMISRM24	38	17	<100	9.3	280	3.4	1.4	1.2
*Std MMISRM19	21	373	<100	4.2	2170	12.2	6.4	2.4
*Blk BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2
*Blk BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_M 1 ppm	GE_MMI_M 0.5 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 200N 1900E	65	2.6	5.5	<1	<0.1	4.6	15	5
Line 200N 1925E	91	2.3	4.7	<1	<0.1	4.0	11	4
Line 200N 1950E	83	2.9	6.4	<1	<0.1	4.9	15	5
Line 200N 1975E	129	4.2	6.1	<1	0.2	2.7	12	4
Line 200N 2000E	135	4.5	5.5	<1	0.3	3.2	10	3
Line 200N 2000EB	126	2.7	13.0	<1	<0.1	9.6	44	7
Line 200N 2025E	79	1.9	5.8	<1	<0.1	4.7	15	4
Line 200N 2050E	158	3.2	4.2	<1	0.2	5.8	11	4
Line 200N 2075E	60	2.1	7.9	<1	<0.1	10.9	30	12
Line 200N 2100E	44	2.2	5.7	<1	<0.1	3.6	13	4
Line 200N 2125E	102	3.5	6.4	<1	0.2	5.3	14	4
Line 200N 2150E	106	5.0	12.4	<1	<0.1	5.0	30	6
Line 200N 2175E	102	5.4	8.9	<1	<0.1	4.1	17	5
Line 200N 2200E	74	4.3	9.5	<1	0.1	6.6	15	5
Line 400N 0E	78	37.8	2.9	<1	0.8	19.9	28	6
Line 400N 25E	83	38.8	8.5	2	0.6	13.2	55	<1
Line 400N 50E	65	35.0	10.2	<1	0.6	12.9	60	<1
Line 400N 75E	78	41.9	11.3	<1	0.6	14.1	70	1
Line 400N 100E	64	31.3	8.3	2	0.4	16.4	49	<1
Line 400N 125E	45	27.3	18.0	<1	0.3	13.2	64	1
Line 400N 150E	84	40.6	7.5	2	0.5	24.0	64	2
Line 400N 175E	22	20.1	16.8	<1	0.1	15.4	50	<1
Line 400N 200E	63	24.7	10.2	2	0.3	12.3	51	2
Line 400N 225E	52	20.8	15.5	1	0.3	12.8	53	2
Line 400N 250E	36	13.9	20.4	<1	0.3	15.5	57	1
Line 400N 275E	47	14.9	4.0	1	1.0	24.7	25	2
Line 400N 275EB	13	10.6	38.4	<1	0.1	12.0	95	<1
Line 400N 300E	89	55.9	8.1	1	0.7	18.0	44	4
Line 400N 325E	10	10.4	31.0	<1	0.1	10.1	56	<1
Line 400N 350E	33	17.6	19.2	<1	0.3	17.0	39	1
Line 400N 375E	48	24.1	12.0	<1	0.7	16.7	42	1
Line 400N 400E	22	11.2	33.1	<1	0.2	14.3	62	<1
Line 400N 425E	67	35.3	12.2	1	0.5	12.2	62	2
Line 400N 450E	4	8.6	29.4	<1	<0.1	11.7	47	<1
Line 400N 475E	140	94.2	5.8	2	0.8	12.0	43	10
Line 400N 500E	13	10.7	21.1	<1	0.2	18.9	36	<1
Line 400N 525E	27	17.0	18.3	<1	0.2	12.5	39	<1
Line 400N 550E	50	24.4	11.5	<1	0.4	17.0	36	2
Line 400N 550EB	35	15.2	18.5	<1	0.3	24.5	46	<1
Line 400N 575E	21	16.5	21.3	<1	0.2	23.7	57	<1

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	GE_MMI_M 1 ppm	GE_MMI_M 0.5 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 400N 600E	97	45.0	9.1	2	0.5	16.0	48	3
Line 400N 625E	17	11.5	38.1	<1	0.2	13.4	99	<1
Line 400N 650E	14	8.8	15.0	<1	0.1	13.0	41	<1
Line 400N 675E	29	1.0	6.2	<1	<0.1	8.7	10	4
Line 400N 700E	32	1.2	6.3	<1	<0.1	6.8	11	5
Line 400N 725E	49	19.8	28.1	1	0.3	12.7	109	1
Line 400N 750E	12	10.2	14.4	<1	0.1	13.2	45	<1
Line 400N 775E	78	27.1	13.0	2	0.5	13.8	81	1
Line 400N 800E	16	11.3	28.3	<1	0.2	12.7	93	<1
Line 400N 800EB	9	10.0	14.9	<1	<0.1	12.6	46	<1
Line 400N 825E	13	12.9	30.6	<1	0.1	11.8	100	<1
Line 400N 850E	34	13.2	7.8	<1	1.8	23.6	21	<1
Line 400N 875E	25	19.1	15.9	<1	0.2	12.0	57	<1
Line 400N 900E	49	29.2	9.0	1	0.3	12.7	56	<1
Line 400N 925E	35	20.7	9.2	<1	0.5	16.0	32	<1
Line 400N 950E	58	1.6	8.4	<1	<0.1	4.7	37	4
Line 400N 975E	50	1.8	6.7	<1	<0.1	4.2	31	4
Line 400N 1000E	190	3.1	14.4	<1	0.1	4.0	66	11
Line 400N 1025E	89	2.3	9.1	<1	<0.1	3.8	40	6
Line 400N 1050E	50	1.7	6.5	<1	<0.1	4.1	30	3
Line 400N 1075E	58	1.9	6.5	<1	<0.1	7.4	32	4
Line 400N 1100E	59	1.0	3.6	<1	<0.1	2.1	10	1
Line 400N 1125E	20	0.7	2.5	<1	<0.1	3.7	7	1
Line 400N 1150E	24	1.0	4.2	<1	<0.1	2.0	11	<1
Line 400N 1175E	70	1.3	8.5	<1	<0.1	2.6	21	4
Line 400N 1200E	53	0.7	3.4	<1	<0.1	4.1	7	1
Line 400N 1225E	46	1.0	3.1	<1	<0.1	5.0	8	<1
Line 400N 1250E	164	2.6	7.9	<1	<0.1	1.9	11	3
Line 400N 1275E	51	0.8	4.0	<1	<0.1	2.1	9	1
Line 400N 1300E	81	1.1	10.6	<1	<0.1	5.1	25	2
Line 400N 1325E	56	1.1	4.2	<1	<0.1	3.8	11	1
Line 400N 1350E	51	1.8	5.2	<1	<0.1	2.1	14	1
Line 400N 1375E	87	1.5	5.6	<1	<0.1	1.8	13	2
Line 400N 1400E	132	1.5	6.4	<1	<0.1	2.6	18	2
Line 400N 1425E	31	0.7	1.9	<1	<0.1	4.0	5	<1
Line 400N 1450E	133	2.4	7.2	<1	0.1	2.1	20	1
Line 400N 1475E	76	1.0	9.8	<1	<0.1	5.2	21	2
Line 400N 1500E	104	1.2	8.3	<1	<0.1	3.9	14	2
Line 400N 1525E	99	1.2	6.6	<1	<0.1	3.3	15	2
Line 400N 1550E	128	2.2	9.0	<1	<0.1	3.1	17	3

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_M 1 ppm	GE_MMI_M 0.5 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 400N 1575E	65	1.3	4.4	<1	<0.1	5.4	12	2
Line 400N 1600E	29	1.1	2.4	<1	<0.1	3.9	7	2
Line 400N 1600EB	153	2.5	9.9	<1	<0.1	2.3	18	4
Line 400N 1625E	13	0.5	1.0	<1	<0.1	4.1	3	6
Line 400N 1650E	70	3.0	9.9	<1	<0.1	5.0	35	10
Line 400N 1675E	66	4.4	7.8	<1	<0.1	1.4	17	3
*Rep Line 200N 2000E	136	4.4	5.7	<1	0.3	3.7	12	4
*Rep Line 400N 325E	12	10.3	28.0	<1	0.1	10.9	55	<1
*Rep Line 400N 875E	31	20.8	14.2	<1	0.3	12.8	53	<1
*Rep Line 400N 1050E	45	1.5	6.5	<1	<0.1	3.5	29	4
*Rep Line 400N 1450E	115	2.0	7.3	<1	0.1	2.2	23	1
*Std MMISRM24	10	2.6	5.1	4	<0.1	11.2	15	<1
*Std MMISRM19	8	0.5	13.4	2	<0.1	91.6	4	1
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_M 0.5 ppm	GE_MMI_M 100 ppb	GE_MMI_M 2 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 5 ppb	GE_MMI_M 0.1 ppm	GE_MMI_M 5 ppb
Line 200N 1900E	44.4	2200	8	0.7	22	171	0.5	136
Line 200N 1925E	42.6	3200	9	0.6	17	151	0.5	124
Line 200N 1950E	37.4	1900	7	0.6	23	126	0.6	149
Line 200N 1975E	28.5	2700	3	0.5	19	112	0.7	719
Line 200N 2000E	25.6	3300	2	0.5	18	102	0.8	639
Line 200N 2000EB	49.6	4300	17	2.1	60	465	0.6	309
Line 200N 2025E	37.4	1500	3	<0.5	22	154	0.5	144
Line 200N 2050E	29.7	4800	4	<0.5	15	106	1.1	421
Line 200N 2075E	50.0	3000	9	1.2	45	240	0.4	203
Line 200N 2100E	38.6	1000	5	<0.5	21	156	0.5	259
Line 200N 2125E	31.2	3500	4	0.6	21	137	0.7	667
Line 200N 2150E	52.2	2600	7	0.9	45	351	0.5	309
Line 200N 2175E	47.9	1900	4	<0.5	29	209	0.6	185
Line 200N 2200E	43.6	2800	<2	<0.5	27	110	0.6	281
Line 400N 0E	3.2	900	7	15.2	17	28	7.2	1160
Line 400N 25E	<0.5	200	3	4.4	48	45	4.4	843
Line 400N 50E	1.0	1200	3	3.6	59	46	3.5	835
Line 400N 75E	1.7	2300	3	5.7	64	56	4.6	847
Line 400N 100E	0.6	400	2	3.1	47	47	3.3	451
Line 400N 125E	1.9	2900	3	3.1	89	56	2.2	571
Line 400N 150E	0.7	400	3	6.1	46	26	4.5	536
Line 400N 175E	<0.5	900	2	0.9	91	19	1.1	353
Line 400N 200E	0.5	1200	3	3.5	56	39	3.6	468
Line 400N 225E	0.9	1800	3	2.9	76	46	2.6	594
Line 400N 250E	2.9	4000	2	1.9	92	57	1.7	561
Line 400N 275E	4.2	2500	4	5.2	24	58	6.7	1730
Line 400N 275EB	0.5	1900	4	<0.5	186	46	0.6	272
Line 400N 300E	1.8	1000	4	9.2	40	43	4.9	898
Line 400N 325E	0.8	1000	3	<0.5	146	37	0.5	249
Line 400N 350E	3.0	2900	2	2.0	81	62	1.6	573
Line 400N 375E	2.4	2400	2	2.8	60	60	2.9	957
Line 400N 400E	0.8	1800	5	0.5	146	48	0.8	435
Line 400N 425E	1.0	500	3	4.5	69	48	3.8	795
Line 400N 450E	0.6	1200	5	<0.5	138	33	0.4	166
Line 400N 475E	2.7	200	5	19.8	32	36	8.2	1020
Line 400N 500E	1.5	2100	3	<0.5	92	46	0.9	336
Line 400N 525E	1.1	1100	3	1.1	87	39	0.9	391
Line 400N 550E	1.9	1900	2	3.0	58	55	2.3	627
Line 400N 550EB	2.5	3200	3	1.5	85	59	1.1	720
Line 400N 575E	1.4	2100	3	1.0	106	55	0.9	430

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_M 0.5 ppm	GE_MMI_M 100 ppb	GE_MMI_M 2 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 5 ppb	GE_MMI_M 0.1 ppm	GE_MMI_M 5 ppb
Line 400N 600E	1.2	400	3	7.6	52	44	3.8	576
Line 400N 625E	1.7	2300	4	<0.5	188	58	0.7	376
Line 400N 650E	0.6	3700	2	0.5	72	48	0.6	205
Line 400N 675E	41.7	3100	3	1.4	26	316	0.3	27
Line 400N 700E	44.2	1900	4	1.5	27	372	0.3	28
Line 400N 725E	2.3	2400	3	2.8	152	66	2.5	576
Line 400N 750E	0.7	3100	2	<0.5	69	49	0.4	226
Line 400N 775E	1.9	1500	3	4.4	79	53	3.6	776
Line 400N 800E	1.0	1500	3	<0.5	157	54	0.7	345
Line 400N 800EB	0.7	3000	2	<0.5	73	57	0.3	245
Line 400N 825E	0.6	1100	3	<0.5	165	53	0.5	281
Line 400N 850E	5.3	4400	2	0.7	35	86	0.8	2120
Line 400N 875E	<0.5	1000	<2	0.8	84	46	0.9	335
Line 400N 900E	<0.5	300	<2	2.6	51	37	2.1	441
Line 400N 925E	1.0	1600	<2	1.5	47	59	1.4	624
Line 400N 950E	77.1	4000	2	0.8	52	211	0.3	88
Line 400N 975E	78.8	5200	4	0.8	43	225	0.3	100
Line 400N 1000E	37.8	3900	3	2.4	94	259	0.4	144
Line 400N 1025E	65.4	4500	4	1.3	55	218	0.3	167
Line 400N 1050E	77.7	4900	4	0.8	44	212	0.2	48
Line 400N 1075E	78.1	3700	4	1.0	45	196	0.3	57
Line 400N 1100E	45.6	3000	2	<0.5	14	99	0.7	132
Line 400N 1125E	53.9	7600	2	<0.5	10	96	0.4	51
Line 400N 1150E	52.0	5500	2	<0.5	17	112	0.5	32
Line 400N 1175E	42.1	4200	3	<0.5	28	125	0.7	61
Line 400N 1200E	46.3	3900	<2	<0.5	11	99	0.5	50
Line 400N 1225E	47.1	10700	4	<0.5	13	94	0.6	15
Line 400N 1250E	31.8	2500	2	<0.5	21	87	0.9	44
Line 400N 1275E	48.6	3500	<2	<0.5	14	88	0.4	30
Line 400N 1300E	38.5	3000	3	<0.5	34	117	0.8	51
Line 400N 1325E	46.2	5100	3	<0.5	15	98	0.7	53
Line 400N 1350E	45.0	5300	5	<0.5	21	97	0.7	34
Line 400N 1375E	38.0	4700	3	<0.5	18	105	0.7	43
Line 400N 1400E	33.9	5000	3	<0.5	23	92	0.7	56
Line 400N 1425E	57.1	11400	4	<0.5	7	85	0.3	12
Line 400N 1450E	25.5	3800	5	<0.5	27	90	1.0	360
Line 400N 1475E	35.8	2000	<2	<0.5	28	117	0.8	60
Line 400N 1500E	34.8	2900	<2	<0.5	21	106	0.8	40
Line 400N 1525E	40.8	3400	3	<0.5	23	113	0.7	33
Line 400N 1550E	36.9	2800	2	<0.5	28	95	0.9	72

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	100	2	0.5	1	5	0.1	5
	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppb
Line 400N 1575E	43.2	7900	3	<0.5	15	90	0.9	99
Line 400N 1600E	51.0	11000	4	<0.5	10	108	0.4	53
Line 400N 1600EB	32.5	2500	2	<0.5	31	83	1.1	52
Line 400N 1625E	67.6	3700	12	<0.5	5	82	0.4	89
Line 400N 1650E	56.5	1800	2	0.9	50	130	0.3	198
Line 400N 1675E	38.2	3200	2	<0.5	27	81	0.5	191
*Rep Line 200N 2000E	27.3	3600	3	0.5	18	113	0.8	552
*Rep Line 400N 325E	0.9	1100	3	<0.5	136	33	0.5	247
*Rep Line 400N 875E	0.6	1100	<2	1.3	78	47	1.2	363
*Rep Line 400N 1050E	75.4	4300	4	0.9	41	193	0.3	49
*Rep Line 400N 1450E	25.0	3800	6	<0.5	31	100	1.0	296
*Std MMISRM24	9.8	200	21	<0.5	23	136	0.6	212
*Std MMISRM19	200	5400	8	<0.5	18	2170	0.5	1080
*Blk BLANK	<0.5	<100	<2	<0.5	<1	<5	<0.1	<5
*Blk BLANK	<0.5	<100	<2	<0.5	<1	<5	<0.1	<5

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Element Method Det.Lim. Units	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 200N 1900E	<1	4.9	<0.1	13	<0.5	7	5	<1
Line 200N 1925E	<1	3.9	<0.1	13	<0.5	7	4	<1
Line 200N 1950E	<1	5.3	<0.1	17	<0.5	9	6	<1
Line 200N 1975E	<1	4.3	<0.1	17	0.6	12	5	<1
Line 200N 2000E	<1	3.7	<0.1	21	0.8	13	5	<1
Line 200N 2000EB	<1	14.3	<0.1	41	<0.5	39	13	<1
Line 200N 2025E	<1	4.8	<0.1	14	<0.5	9	5	<1
Line 200N 2050E	<1	3.5	<0.1	24	<0.5	11	4	<1
Line 200N 2075E	<1	10.8	<0.1	28	<0.5	14	9	<1
Line 200N 2100E	<1	4.6	<0.1	11	<0.5	8	5	<1
Line 200N 2125E	<1	4.8	<0.1	23	<0.5	15	5	<1
Line 200N 2150E	<1	10.2	<0.1	26	<0.5	29	11	<1
Line 200N 2175E	<1	6.1	<0.1	25	<0.5	15	7	<1
Line 200N 2200E	<1	5.6	<0.1	40	<0.5	14	7	<1
Line 400N 0E	<1	4.9	<0.1	23	1.4	20	3	7
Line 400N 25E	<1	12.6	<0.1	68	1.0	29	9	1
Line 400N 50E	<1	15.0	<0.1	64	0.9	34	12	1
Line 400N 75E	<1	16.8	<0.1	73	1.0	35	13	2
Line 400N 100E	<1	12.4	<0.1	66	1.4	27	9	1
Line 400N 125E	<1	20.6	<0.1	82	<0.5	38	20	1
Line 400N 150E	<1	13.2	<0.1	61	1.8	25	9	2
Line 400N 175E	<1	20.4	<0.1	95	<0.5	39	20	<1
Line 400N 200E	<1	13.9	<0.1	99	1.0	36	12	<1
Line 400N 225E	<1	17.6	<0.1	94	0.5	40	17	<1
Line 400N 250E	<1	21.2	<0.1	111	<0.5	41	22	<1
Line 400N 275E	<1	6.3	<0.1	76	1.3	18	5	7
Line 400N 275EB	<1	41.2	<0.1	143	<0.5	49	41	<1
Line 400N 300E	<1	10.5	<0.1	36	1.8	33	8	4
Line 400N 325E	<1	30.3	<0.1	127	<0.5	33	35	<1
Line 400N 350E	<1	16.9	<0.1	116	<0.5	42	21	<1
Line 400N 375E	<1	14.1	<0.1	45	<0.5	38	13	2
Line 400N 400E	<1	28.8	<0.1	140	<0.5	17	35	<1
Line 400N 425E	<1	17.1	<0.1	47	0.9	37	14	2
Line 400N 450E	<1	26.9	<0.1	135	<0.5	14	33	<1
Line 400N 475E	<1	8.7	<0.1	35	1.8	39	7	7
Line 400N 500E	<1	18.8	<0.1	153	<0.5	21	24	<1
Line 400N 525E	<1	18.5	<0.1	109	<0.5	40	22	<1
Line 400N 550E	<1	13.3	<0.1	92	0.7	41	14	1
Line 400N 550EB	<1	17.8	<0.1	172	<0.5	26	20	<1
Line 400N 575E	<1	22.7	<0.1	181	<0.5	31	24	<1

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Element Method Det.Lim. Units	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 400N 600E	<1	13.6	<0.1	60	1.1	35	11	2
Line 400N 625E	<1	40.7	<0.1	131	<0.5	41	42	<1
Line 400N 650E	<1	16.4	<0.1	100	<0.5	24	18	<1
Line 400N 675E	<1	4.9	<0.1	75	<0.5	5	6	<1
Line 400N 700E	<1	5.2	<0.1	79	<0.5	<5	6	<1
Line 400N 725E	<1	34.8	<0.1	119	0.6	47	32	1
Line 400N 750E	<1	16.8	<0.1	101	<0.5	23	17	<1
Line 400N 775E	<1	20.6	<0.1	90	1.1	35	15	1
Line 400N 800E	<1	35.7	<0.1	121	<0.5	35	34	<1
Line 400N 800EB	<1	16.7	<0.1	89	<0.5	27	17	<1
Line 400N 825E	<1	38.2	<0.1	122	<0.5	38	35	<1
Line 400N 850E	<1	7.6	<0.1	103	<0.5	37	8	1
Line 400N 875E	<1	19.7	<0.1	107	0.6	38	18	<1
Line 400N 900E	<1	13.4	<0.1	62	0.8	31	10	<1
Line 400N 925E	<1	10.9	<0.1	75	0.5	29	10	<1
Line 400N 950E	<1	11.9	<0.1	37	<0.5	11	10	<1
Line 400N 975E	<1	10.0	<0.1	43	<0.5	10	8	<1
Line 400N 1000E	<1	23.1	<0.1	84	<0.5	36	17	<1
Line 400N 1025E	<1	13.0	<0.1	51	<0.5	19	10	<1
Line 400N 1050E	<1	9.9	<0.1	62	<0.5	9	8	<1
Line 400N 1075E	<1	10.6	<0.1	42	<0.5	11	8	<1
Line 400N 1100E	<1	3.2	<0.1	9	<0.5	5	3	<1
Line 400N 1125E	<1	2.3	<0.1	15	<0.5	<5	2	<1
Line 400N 1150E	<1	3.7	<0.1	6	<0.5	<5	4	<1
Line 400N 1175E	<1	6.4	<0.1	10	<0.5	12	7	<1
Line 400N 1200E	<1	2.4	<0.1	13	<0.5	6	3	<1
Line 400N 1225E	<1	2.9	<0.1	20	<0.5	<5	3	<1
Line 400N 1250E	<1	4.4	<0.1	10	<0.5	11	6	<1
Line 400N 1275E	<1	3.1	<0.1	9	<0.5	<5	3	<1
Line 400N 1300E	<1	8.1	<0.1	22	<0.5	15	8	<1
Line 400N 1325E	<1	3.5	<0.1	14	<0.5	<5	3	<1
Line 400N 1350E	<1	4.5	<0.1	9	<0.5	<5	4	<1
Line 400N 1375E	<1	4.4	<0.1	10	<0.5	6	5	<1
Line 400N 1400E	<1	5.4	<0.1	12	<0.5	12	5	<1
Line 400N 1425E	<1	1.6	<0.1	20	<0.5	<5	2	<1
Line 400N 1450E	<1	6.2	<0.1	10	<0.5	9	6	<1
Line 400N 1475E	<1	6.5	<0.1	27	<0.5	15	7	<1
Line 400N 1500E	<1	4.7	<0.1	19	<0.5	11	6	<1
Line 400N 1525E	<1	5.1	<0.1	13	<0.5	8	5	<1
Line 400N 1550E	<1	6.1	<0.1	15	<0.5	13	7	<1

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Element Method Det.Lim. Units	Pd GE_MMI_M 1 ppb	Pr GE_MMI_M 0.5 ppb	Pt GE_MMI_M 0.1 ppb	Rb GE_MMI_M 1 ppb	Sb GE_MMI_M 0.5 ppb	Sc GE_MMI_M 5 ppb	Sm GE_MMI_M 1 ppb	Sn GE_MMI_M 1 ppb
Line 400N 1575E	<1	3.8	<0.1	22	<0.5	8	4	<1
Line 400N 1600E	<1	2.2	<0.1	12	<0.5	<5	2	<1
Line 400N 1600EB	<1	6.7	<0.1	11	<0.5	11	8	<1
Line 400N 1625E	<1	0.9	<0.1	17	<0.5	<5	<1	<1
Line 400N 1650E	<1	11.5	<0.1	60	<0.5	21	10	<1
Line 400N 1675E	<1	5.6	<0.1	18	<0.5	8	7	<1
*Rep Line 200N 2000E	<1	4.1	<0.1	21	0.7	17	5	<1
*Rep Line 400N 325E	<1	28.9	<0.1	125	<0.5	34	33	<1
*Rep Line 400N 875E	<1	17.9	<0.1	99	0.6	39	16	<1
*Rep Line 400N 1050E	<1	9.8	<0.1	62	<0.5	10	8	<1
*Rep Line 400N 1450E	<1	7.3	<0.1	11	<0.5	9	7	<1
*Std MMISRM24	6	5.2	2.9	127	<0.5	<5	5	<1
*Std MMISRM19	<1	2.9	<0.1	196	0.8	9	8	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1

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Element Method Det.Lim. Units	Sr GE_MMI_M	Ta GE_MMI_M	Tb GE_MMI_M	Te GE_MMI_M	Th GE_MMI_M	Ti GE_MMI_M	Tl GE_MMI_M	U GE_MMI_M
	10	1	0.1	10	0.5	10	0.1	0.5
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Line 200N 1900E	480	<1	0.8	<10	3.1	70	0.3	17.6
Line 200N 1925E	490	<1	0.7	<10	2.8	70	0.5	17.2
Line 200N 1950E	430	<1	1.0	<10	3.7	80	0.3	19.9
Line 200N 1975E	340	<1	1.1	<10	4.8	110	0.3	13.2
Line 200N 2000E	320	<1	0.9	<10	5.3	100	0.3	12.3
Line 200N 2000EB	520	<1	2.2	<10	11.9	180	0.2	107
Line 200N 2025E	440	<1	0.9	<10	3.0	50	<0.1	18.3
Line 200N 2050E	350	<1	0.7	<10	3.8	100	0.2	11.1
Line 200N 2075E	590	<1	1.2	<10	5.1	70	0.2	36.1
Line 200N 2100E	440	<1	0.9	<10	2.7	50	0.1	12.3
Line 200N 2125E	380	<1	1.0	<10	4.6	100	0.1	17.2
Line 200N 2150E	530	<1	2.2	<10	10.4	130	0.4	53.9
Line 200N 2175E	480	<1	1.7	<10	6.3	80	0.5	24.5
Line 200N 2200E	490	<1	1.6	<10	5.8	80	0.3	18.1
Line 400N 0E	120	1	0.5	<10	12.8	5140	0.3	2.9
Line 400N 25E	40	<1	1.2	<10	18.8	1030	0.3	4.8
Line 400N 50E	40	<1	1.5	<10	14.7	990	0.3	4.5
Line 400N 75E	60	<1	1.7	<10	17.1	1620	0.3	4.5
Line 400N 100E	30	<1	1.1	<10	13.1	780	0.2	3.6
Line 400N 125E	40	<1	2.2	<10	10.9	1060	0.2	4.6
Line 400N 150E	30	<1	1.1	<10	17.0	1660	0.4	3.9
Line 400N 175E	<10	<1	2.3	<10	6.7	290	0.2	4.2
Line 400N 200E	20	<1	1.5	<10	16.3	930	0.3	4.3
Line 400N 225E	20	<1	2.2	<10	15.4	770	0.2	5.2
Line 400N 250E	60	<1	3.0	<10	11.9	510	0.3	5.0
Line 400N 275E	150	<1	0.7	<10	9.7	1390	0.5	2.3
Line 400N 275EB	20	<1	5.1	<10	6.2	70	0.2	6.8
Line 400N 300E	80	<1	1.1	<10	16.2	2800	0.2	4.0
Line 400N 325E	30	<1	4.0	<10	4.4	60	0.1	5.3
Line 400N 350E	60	<1	2.7	<10	10.4	630	0.2	5.3
Line 400N 375E	60	<1	1.8	<10	11.6	850	0.2	4.0
Line 400N 400E	70	<1	3.9	<10	3.2	60	0.3	4.3
Line 400N 425E	40	<1	1.7	<10	13.9	1270	0.2	4.3
Line 400N 450E	50	<1	3.6	<10	1.6	10	0.1	3.3
Line 400N 475E	80	1	0.8	<10	20.0	6180	0.3	4.5
Line 400N 500E	70	<1	3.0	<10	3.6	100	0.2	4.0
Line 400N 525E	20	<1	2.6	<10	8.1	360	0.2	5.4
Line 400N 550E	40	<1	1.8	<10	13.0	950	0.2	4.4
Line 400N 550EB	60	<1	2.5	<10	6.3	320	0.4	4.3
Line 400N 575E	40	<1	3.0	<10	5.6	210	0.2	4.0

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Element Method Det.Lim. Units	Sr GE_MMI_M 10 ppb	Ta GE_MMI_M 1 ppb	Tb GE_MMI_M 0.1 ppb	Te GE_MMI_M 10 ppb	Th GE_MMI_M 0.5 ppb	Ti GE_MMI_M 10 ppb	Tl GE_MMI_M 0.1 ppb	U GE_MMI_M 0.5 ppb
Line 400N 600E	40	<1	1.3	<10	18.7	2320	0.2	4.2
Line 400N 625E	60	<1	5.2	<10	7.4	110	0.2	6.3
Line 400N 650E	50	<1	2.2	<10	8.8	190	0.3	5.6
Line 400N 675E	390	<1	0.8	<10	19.1	90	0.3	8.9
Line 400N 700E	350	<1	0.7	<10	19.1	90	0.3	9.9
Line 400N 725E	70	<1	3.9	<10	14.0	800	0.2	5.6
Line 400N 750E	40	<1	2.1	<10	6.8	110	0.2	5.1
Line 400N 775E	60	<1	2.0	<10	19.7	1070	0.2	4.5
Line 400N 800E	50	<1	3.8	<10	7.1	130	0.2	6.0
Line 400N 800EB	40	<1	2.0	<10	5.1	40	0.2	5.2
Line 400N 825E	40	<1	4.0	<10	6.0	70	0.1	5.9
Line 400N 850E	90	<1	1.2	<10	8.8	220	0.3	2.8
Line 400N 875E	20	<1	2.2	<10	8.4	260	0.2	4.5
Line 400N 900E	20	<1	1.3	<10	11.2	750	0.1	4.1
Line 400N 925E	40	<1	1.4	<10	8.8	460	0.2	3.1
Line 400N 950E	470	<1	1.0	<10	15.9	70	0.2	14.5
Line 400N 975E	490	<1	0.8	<10	14.2	70	0.2	17.3
Line 400N 1000E	500	<1	2.0	<10	28.5	220	0.3	33.7
Line 400N 1025E	440	<1	1.2	<10	16.2	110	0.2	24.6
Line 400N 1050E	470	<1	0.8	<10	15.6	60	0.2	17.5
Line 400N 1075E	450	<1	0.9	<10	15.2	70	0.2	18.4
Line 400N 1100E	430	<1	0.6	<10	2.0	20	<0.1	1.7
Line 400N 1125E	490	<1	0.4	<10	1.1	10	0.1	1.3
Line 400N 1150E	480	<1	0.6	<10	1.3	10	<0.1	0.8
Line 400N 1175E	420	<1	1.5	<10	4.6	40	0.1	14.3
Line 400N 1200E	410	<1	0.5	<10	1.5	20	0.2	2.7
Line 400N 1225E	380	<1	0.4	<10	1.7	20	0.1	1.3
Line 400N 1250E	320	<1	1.7	<10	3.9	70	0.1	5.8
Line 400N 1275E	460	<1	0.6	<10	1.5	10	0.1	1.3
Line 400N 1300E	400	<1	1.9	<10	5.0	50	0.1	17.1
Line 400N 1325E	440	<1	0.6	<10	2.1	30	0.1	2.0
Line 400N 1350E	410	<1	0.8	<10	2.5	30	0.1	2.7
Line 400N 1375E	390	<1	1.0	<10	3.0	40	0.2	7.2
Line 400N 1400E	330	<1	1.1	<10	3.8	50	<0.1	11.3
Line 400N 1425E	450	<1	0.2	<10	1.2	<10	0.1	<0.5
Line 400N 1450E	260	<1	1.2	<10	3.6	50	0.1	3.3
Line 400N 1475E	350	<1	2.0	<10	5.2	40	0.2	17.3
Line 400N 1500E	330	<1	1.6	<10	4.5	40	0.2	9.6
Line 400N 1525E	390	<1	1.1	<10	2.9	40	0.1	4.6
Line 400N 1550E	360	<1	1.7	<10	5.4	80	0.2	7.9

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Element Method Det.Lim. Units	Sr	Ta	Tb	Te	Th	Ti	Tl	U
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	10	1	0.1	10	0.5	10	0.1	0.5
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Line 400N 1575E	410	<1	0.6	<10	2.9	50	0.2	4.6
Line 400N 1600E	470	<1	0.3	<10	1.5	20	0.1	1.5
Line 400N 1600EB	340	<1	2.2	<10	6.3	100	0.1	5.9
Line 400N 1625E	610	<1	0.1	<10	1.6	10	<0.1	0.8
Line 400N 1650E	560	<1	1.4	<10	12.9	80	0.2	15.2
Line 400N 1675E	430	<1	1.3	<10	4.1	90	<0.1	10.1
*Rep Line 200N 2000E	340	<1	1.0	<10	5.4	110	0.3	15.5
*Rep Line 400N 325E	20	<1	3.7	<10	4.7	70	0.2	5.5
*Rep Line 400N 875E	30	<1	2.1	<10	9.3	400	0.2	4.4
*Rep Line 400N 1050E	460	<1	0.8	<10	15.7	80	0.2	18.9
*Rep Line 400N 1450E	250	<1	1.2	<10	3.6	40	0.1	3.0
*Std MMISRM24	1450	<1	0.7	<10	16.7	40	0.1	10.1
*Std MMISRM19	4130	<1	2.0	<10	17.1	<10	0.8	61.8
*Blk BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5
*Blk BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5

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Element Method Det.Lim. Units	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	1	0.2	10	2
	ppb	ppb	ppb	ppb	ppb
Line 200N 1900E	0.6	34	2.6	2080	9
Line 200N 1925E	0.5	31	2.3	2250	8
Line 200N 1950E	<0.5	39	3.2	2680	8
Line 200N 1975E	<0.5	44	3.8	3640	10
Line 200N 2000E	<0.5	41	3.8	4900	10
Line 200N 2000EB	0.5	82	6.8	1300	35
Line 200N 2025E	<0.5	37	2.9	1810	7
Line 200N 2050E	<0.5	31	3.0	2760	9
Line 200N 2075E	0.5	44	3.5	1620	15
Line 200N 2100E	<0.5	32	2.5	2130	6
Line 200N 2125E	<0.5	41	3.5	3200	11
Line 200N 2150E	<0.5	99	7.5	3290	19
Line 200N 2175E	<0.5	95	7.2	3870	10
Line 200N 2200E	<0.5	69	6.2	3900	10
Line 400N 0E	1.9	13	1.2	400	64
Line 400N 25E	<0.5	30	2.6	250	44
Line 400N 50E	<0.5	41	3.6	480	38
Line 400N 75E	0.5	45	3.5	640	48
Line 400N 100E	<0.5	31	2.9	380	33
Line 400N 125E	<0.5	58	4.3	590	28
Line 400N 150E	<0.5	22	1.7	270	52
Line 400N 175E	<0.5	62	5.8	230	19
Line 400N 200E	<0.5	41	3.8	440	46
Line 400N 225E	<0.5	52	5.1	700	36
Line 400N 250E	<0.5	76	6.5	1330	26
Line 400N 275E	1.2	19	1.4	1100	40
Line 400N 275EB	<0.5	128	9.4	380	15
Line 400N 300E	0.9	28	2.8	650	64
Line 400N 325E	<0.5	89	6.8	420	11
Line 400N 350E	<0.5	60	5.5	1110	23
Line 400N 375E	<0.5	51	4.6	1200	32
Line 400N 400E	<0.5	93	5.2	230	11
Line 400N 425E	<0.5	48	4.0	460	44
Line 400N 450E	<0.5	80	5.0	160	5
Line 400N 475E	1.7	21	2.0	240	92
Line 400N 500E	<0.5	62	4.5	450	10
Line 400N 525E	<0.5	58	5.7	550	20
Line 400N 550E	<0.5	43	4.7	910	35
Line 400N 550EB	<0.5	54	4.1	650	18
Line 400N 575E	<0.5	69	4.9	350	14

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Element Method	W GE_MMI_M	Y GE_MMI_M	Yb GE_MMI_M	Zn GE_MMI_M	Zr GE_MMI_M
Det.Lim.	0.5	1	0.2	10	2
Units	ppb	ppb	ppb	ppb	ppb
Line 400N 600E	0.6	33	3.1	460	56
Line 400N 625E	<0.5	125	8.7	620	16
Line 400N 650E	<0.5	46	3.7	380	20
Line 400N 675E	0.5	24	2.3	210	30
Line 400N 700E	<0.5	24	2.3	270	27
Line 400N 725E	<0.5	102	7.5	730	33
Line 400N 750E	<0.5	43	3.5	310	15
Line 400N 775E	<0.5	53	4.3	790	51
Line 400N 800E	<0.5	97	6.3	490	15
Line 400N 800EB	<0.5	48	4.0	470	10
Line 400N 825E	<0.5	101	6.6	350	13
Line 400N 850E	<0.5	32	3.4	2190	14
Line 400N 875E	<0.5	60	5.1	360	20
Line 400N 900E	<0.5	36	3.2	300	31
Line 400N 925E	<0.5	40	3.6	830	21
Line 400N 950E	<0.5	36	3.1	1460	18
Line 400N 975E	<0.5	30	2.7	1400	15
Line 400N 1000E	<0.5	65	5.9	410	71
Line 400N 1025E	<0.5	42	3.9	1600	29
Line 400N 1050E	<0.5	28	2.4	880	13
Line 400N 1075E	<0.5	29	2.7	790	14
Line 400N 1100E	<0.5	25	1.9	1710	6
Line 400N 1125E	<0.5	15	1.2	1910	3
Line 400N 1150E	<0.5	23	1.7	1580	3
Line 400N 1175E	<0.5	78	6.2	2370	12
Line 400N 1200E	<0.5	22	1.8	2020	6
Line 400N 1225E	<0.5	16	1.5	1770	5
Line 400N 1250E	<0.5	104	8.9	1900	11
Line 400N 1275E	<0.5	30	2.5	2360	5
Line 400N 1300E	<0.5	100	8.5	1910	17
Line 400N 1325E	<0.5	28	2.3	2220	7
Line 400N 1350E	<0.5	30	2.7	1470	7
Line 400N 1375E	<0.5	48	4.1	2450	10
Line 400N 1400E	<0.5	58	4.5	1880	11
Line 400N 1425E	<0.5	10	0.9	1420	3
Line 400N 1450E	<0.5	52	4.4	1400	10
Line 400N 1475E	<0.5	121	9.7	3990	15
Line 400N 1500E	<0.5	92	7.6	4230	13
Line 400N 1525E	<0.5	51	4.0	1620	10
Line 400N 1550E	<0.5	90	7.4	1770	16

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Element Method Det.Lim. Units	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	1	0.2	10	2
	ppb	ppb	ppb	ppb	ppb
Line 400N 1575E	<0.5	31	3.0	2220	12
Line 400N 1600E	<0.5	15	1.3	1810	4
Line 400N 1600EB	<0.5	120	9.7	1570	15
Line 400N 1625E	<0.5	4	0.3	740	<2
Line 400N 1650E	<0.5	44	3.1	960	17
Line 400N 1675E	<0.5	58	4.1	1050	9
*Rep Line 200N 2000E	<0.5	44	3.7	4880	11
*Rep Line 400N 325E	<0.5	84	6.5	420	12
*Rep Line 400N 875E	<0.5	58	4.5	470	23
*Rep Line 400N 1050E	<0.5	26	2.4	950	14
*Rep Line 400N 1450E	<0.5	45	4.0	1260	10
*Std MMISRM24	<0.5	21	0.9	150	25
*Std MMISRM19	<0.5	63	4.7	2360	14
*Blk BLANK	<0.5	<1	<0.2	<10	<2
*Blk BLANK	<0.5	<1	<0.2	<10	<2

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Certificate of Analysis
Work Order : VC183053
[Report File No.: 000031719]

Date: September 26, 2018

To: Charles Gryba
COD SGS MINERALS - GEOCHEM VANCOUVER
Central Timmins Exploration Corp.
200 Bay Street, Suite 2350
Toronto
ONT M5J 2J2

P.O. No.: Central Timmins Exploration Corp.
Project No.: -
Samples: 86
Received: Aug 21, 2018
Pages: Page 1 to 22
(Inclusive of Cover Sheet)

Methods Summary

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

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE 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

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppm	GE_MMI_M 10 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 2 ppm	GE_MMI_M 1 ppb
Line 400N 1700E	17.1	76	<10	<0.1	1560	<0.5	579	37
Line 400N 1725E	4.4	139	<10	<0.1	780	<0.5	402	18
Line 400N 1750E	1.8	104	<10	<0.1	660	<0.5	479	20
Line 400N 1775E	0.8	164	<10	<0.1	540	1.0	291	34
Line 400N 1800E	<0.5	22	<10	0.1	90	<0.5	312	28
Line 400N 1825E	<0.5	5	<10	0.1	100	<0.5	313	15
Line 400N 1850E	<0.5	12	<10	<0.1	130	<0.5	399	20
Line 400N 1875E	<0.5	4	<10	<0.1	90	<0.5	364	13
Line 400N 1900E	<0.5	4	<10	<0.1	150	<0.5	410	8
Line 400N 1925E	<0.5	9	<10	<0.1	130	<0.5	365	26
Line 400N 1950E	<0.5	5	<10	<0.1	140	<0.5	451	7
Line 400N 1975E	<0.5	3	<10	<0.1	110	<0.5	469	5
Line 400N 2000E	<0.5	46	10	<0.1	130	<0.5	369	25
Line 400N 2025E	<0.5	45	<10	<0.1	200	3.9	105	14
Line 400N 2050E	<0.5	178	20	<0.1	400	12.1	98	135
Line 400N 2075E	1.0	136	<10	<0.1	270	<0.5	310	66
Line 400N 2100E	1.5	105	<10	<0.1	280	<0.5	349	62
Line 400N 2125E	<0.5	172	<10	<0.1	680	3.6	315	72
Line 400N 2150E	<0.5	187	<10	<0.1	500	1.0	308	65
Line 400N 2175E	0.9	328	70	<0.1	3040	15.3	433	113
Line 400N 2200E	<0.5	181	<10	<0.1	600	1.1	353	10
Line 600N 0E	3.7	132	<10	<0.1	360	0.8	36	18
Line 600N 0EB	5.8	123	10	<0.1	160	0.7	12	7
Line 600N 25E	3.8	69	<10	<0.1	300	0.6	27	13
Line 600N 50E	1.9	341	30	<0.1	590	1.3	27	21
Line 600N 75E	2.5	266	30	<0.1	580	1.0	16	18
Line 600N 100E	3.1	99	<10	<0.1	310	0.7	39	15
Line 600N 125E	2.9	52	<10	<0.1	230	<0.5	35	8
Line 600N 150E	1.7	36	<10	<0.1	180	<0.5	17	4
Line 600N 175E	4.2	144	10	<0.1	430	<0.5	33	14
Line 600N 200E	2.2	116	10	<0.1	420	0.6	26	9
Line 600N 225E	1.3	139	20	<0.1	390	<0.5	14	6
Line 600N 250E	1.5	269	80	0.1	560	3.9	15	5
Line 600N 275E	0.7	212	20	<0.1	590	4.6	54	66
Line 600N 300E	2.8	188	10	<0.1	570	0.8	43	18
Line 600N 300EB	2.0	336	40	<0.1	520	2.0	26	15
Line 600N 325E	2.4	191	20	0.1	590	1.8	56	26
Line 600N 350E	3.2	65	<10	<0.1	190	<0.5	12	7
Line 600N 375E	1.5	77	<10	<0.1	180	<0.5	11	5
Line 600N 400E	3.9	189	60	0.4	450	3.5	60	18

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppm	GE_MMI_M 10 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 2 ppm	GE_MMI_M 1 ppb
Line 600N 425E	2.7	89	20	<0.1	290	2.6	7	8
Line 600N 450E	3.7	10	<10	0.3	600	<0.5	222	3
Line 600N 475E	9.0	6	10	0.5	470	<0.5	155	8
Line 600N 500E	11.3	11	<10	0.3	750	<0.5	313	7
Line 600N 525E	2.2	249	60	0.2	910	3.3	17	6
Line 600N 550E	1.2	288	50	<0.1	860	3.6	43	18
Line 600N 575E	3.9	54	<10	0.1	280	<0.5	21	12
Line 600N 600E	3.3	78	<10	<0.1	340	<0.5	13	6
Line 600N 600EB	2.0	217	20	<0.1	690	0.8	40	16
Line 600N 625E	2.6	72	<10	<0.1	370	<0.5	61	13
Line 600N 650E	1.7	41	<10	<0.1	270	<0.5	48	6
Line 600N 675E	2.8	73	<10	<0.1	400	<0.5	63	13
Line 600N 700E	1.8	57	<10	<0.1	370	<0.5	11	4
Line 600N 725E	1.8	130	10	<0.1	490	0.5	17	7
Line 600N 750E	1.8	140	<10	<0.1	510	0.6	17	7
Line 600N 775E	3.3	156	40	0.1	270	1.8	33	15
Line 600N 800E	2.6	41	<10	<0.1	200	<0.5	15	9
Line 600N 825E	2.3	74	<10	<0.1	210	<0.5	15	7
Line 600N 850E	6.6	66	10	<0.1	150	<0.5	15	13
Line 600N 875E	7.0	59	<10	<0.1	150	<0.5	15	14
Line 600N 900E	3.2	131	<10	<0.1	400	0.9	32	14
Line 600N 925E	1.8	87	<10	<0.1	230	0.7	31	12
Line 600N 950E	0.7	330	30	<0.1	990	1.9	44	21
Line 600N 975E	1.1	46	<10	<0.1	570	<0.5	223	15
Line 600N 1000E	1.5	48	<10	0.1	560	<0.5	170	15
Line 600N 1025E	1.2	51	<10	0.1	570	<0.5	222	30
Line 600N 1050E	1.9	39	<10	<0.1	540	<0.5	328	25
Line 600N 1075E	1.2	36	<10	0.1	480	<0.5	324	29
Line 600N 1100E	<0.5	6	<10	<0.1	230	<0.5	396	43
Line 600N 1125E	<0.5	12	<10	<0.1	190	<0.5	376	31
Line 600N 1150E	<0.5	9	<10	<0.1	190	<0.5	380	36
Line 600N 1175E	<0.5	21	<10	<0.1	170	<0.5	374	35
Line 600N 1200E	<0.5	11	<10	<0.1	180	<0.5	373	37
Line 600N 1225E	7.3	143	<10	<0.1	590	<0.5	368	41
Line 600N 1250E	1.8	88	<10	<0.1	180	0.6	322	60
Line 600N 1275E	<0.5	28	<10	<0.1	180	<0.5	379	37
Line 600N 1300E	<0.5	16	<10	<0.1	170	<0.5	353	28
Line 600N 1325E	<0.5	34	<10	<0.1	170	<0.5	366	36
Line 600N 1350E	8.7	100	<10	0.1	1550	<0.5	445	33
Line 600N 1375E	<0.5	20	<10	<0.1	180	<0.5	358	31

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppm	GE_MMI_M 10 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 2 ppm	GE_MMI_M 1 ppb
Line 600N 1400E	<0.5	37	<10	<0.1	170	<0.5	363	40
Line 600N 1425E	<0.5	15	<10	<0.1	230	<0.5	383	40
Line 600N 1450E	<0.5	11	<10	<0.1	210	<0.5	371	43
Line 600N 1475E	<0.5	13	<10	<0.1	430	<0.5	432	32
Line 600N 1500E	0.5	53	<10	<0.1	160	<0.5	341	48
Line 600N 1525E	<0.5	9	<10	<0.1	240	<0.5	382	50
*Rep Line 400N 1700E	13.7	78	<10	<0.1	1340	<0.5	533	28
*Rep Line 600N 300EB	1.6	347	40	<0.1	540	2.7	31	17
*Rep Line 600N 1000E	0.8	44	<10	0.1	590	<0.5	174	10
*Rep Line 600N 1175E	<0.5	20	<10	<0.1	170	<0.5	382	36
*Std MMISRM24	17.1	31	<10	2.8	90	<0.5	54	5
*Std MMISRM19	25.6	18	10	5.6	1220	<0.5	659	32
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1

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Element Method Det.Lim. Units	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	2	1	100	0.2	10	0.5	0.2	0.2
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Line 400N 1700E	172	113	<100	0.7	540	19.8	13.5	4.7
Line 400N 1725E	376	37	<100	0.8	330	57.0	37.4	10.4
Line 400N 1750E	133	53	<100	0.4	70	14.5	9.4	3.1
Line 400N 1775E	74	62	<100	2.3	140	39.0	35.4	3.2
Line 400N 1800E	7	25	<100	0.7	30	1.2	0.8	0.2
Line 400N 1825E	<2	14	<100	0.2	<10	<0.5	<0.2	<0.2
Line 400N 1850E	<2	49	<100	<0.2	<10	0.9	0.7	<0.2
Line 400N 1875E	<2	25	<100	0.3	<10	0.6	0.4	<0.2
Line 400N 1900E	<2	11	<100	<0.2	<10	<0.5	<0.2	<0.2
Line 400N 1925E	<2	34	<100	0.2	30	<0.5	0.2	<0.2
Line 400N 1950E	<2	27	<100	<0.2	<10	<0.5	0.3	<0.2
Line 400N 1975E	<2	7	<100	<0.2	20	<0.5	<0.2	<0.2
Line 400N 2000E	18	27	<100	<0.2	200	2.3	1.5	0.6
Line 400N 2025E	4	47	<100	1.1	<10	0.7	0.7	<0.2
Line 400N 2050E	23	354	<100	1.2	680	11.1	11.9	2.7
Line 400N 2075E	72	185	<100	1.4	240	27.1	18.2	4.5
Line 400N 2100E	125	64	<100	1.6	190	17.9	10.2	5.1
Line 400N 2125E	20	347	<100	1.5	160	7.1	10.1	1.0
Line 400N 2150E	18	288	<100	2.2	110	5.8	8.3	0.8
Line 400N 2175E	208	442	300	4.0	320	22.0	12.1	7.0
Line 400N 2200E	17	168	<100	1.3	30	2.3	3.0	0.6
Line 600N 0E	130	30	<100	3.3	210	12.6	6.4	7.2
Line 600N 0EB	113	12	<100	4.6	200	9.0	4.6	5.4
Line 600N 25E	140	17	<100	3.2	180	18.3	8.0	10.8
Line 600N 50E	62	14	100	2.5	250	4.7	2.5	2.3
Line 600N 75E	100	29	100	4.1	190	7.5	3.8	3.7
Line 600N 100E	139	22	<100	2.7	220	18.6	8.1	10.0
Line 600N 125E	110	26	<100	3.1	120	21.4	8.6	11.5
Line 600N 150E	121	25	<100	2.6	60	22.1	8.6	11.4
Line 600N 175E	103	27	<100	2.9	160	11.9	5.2	5.7
Line 600N 200E	109	22	<100	2.6	120	11.6	5.2	5.8
Line 600N 225E	100	27	<100	2.6	70	8.9	3.7	4.0
Line 600N 250E	60	8	200	1.9	340	4.1	2.1	1.6
Line 600N 275E	122	50	<100	2.7	440	11.7	5.9	5.5
Line 600N 300E	192	36	<100	4.6	190	16.0	8.2	7.9
Line 600N 300EB	77	24	100	2.7	290	6.3	2.9	2.7
Line 600N 325E	144	40	<100	3.5	320	18.6	8.3	8.9
Line 600N 350E	142	18	<100	3.9	70	17.5	7.3	9.0
Line 600N 375E	143	16	<100	3.7	80	15.3	6.7	7.9
Line 600N 400E	91	14	100	2.2	400	6.2	2.8	2.2

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Element Method Det.Lim. Units	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
	GE_MMI_M 2 ppb	GE_MMI_M 1 ppb	GE_MMI_M 100 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 0.2 ppb
Line 600N 425E	26	3	<100	0.4	150	2.0	1.1	0.5
Line 600N 450E	26	49	<100	0.3	580	5.8	3.3	1.3
Line 600N 475E	17	162	<100	1.1	2860	3.9	2.5	1.0
Line 600N 500E	19	64	<100	0.3	790	7.7	4.4	2.1
Line 600N 525E	62	6	100	1.9	240	3.7	1.9	1.6
Line 600N 550E	71	11	200	2.2	340	4.9	2.6	2.1
Line 600N 575E	141	18	<100	3.9	140	21.1	8.7	11.8
Line 600N 600E	97	18	<100	3.5	60	10.7	5.0	5.1
Line 600N 600EB	97	29	100	3.7	180	9.2	4.5	4.2
Line 600N 625E	122	23	<100	3.3	180	19.4	7.6	10.3
Line 600N 650E	87	16	<100	3.0	120	17.6	6.6	9.5
Line 600N 675E	137	41	<100	2.8	170	22.9	9.2	11.7
Line 600N 700E	99	15	<100	2.8	60	12.3	5.1	6.1
Line 600N 725E	104	20	<100	2.5	90	10.2	4.6	4.7
Line 600N 750E	108	22	<100	2.8	100	10.0	4.7	4.7
Line 600N 775E	104	16	<100	2.7	290	8.4	4.0	3.4
Line 600N 800E	202	31	<100	4.5	80	21.1	9.7	11.7
Line 600N 825E	119	15	<100	3.2	100	14.9	6.8	7.3
Line 600N 850E	198	20	<100	3.3	140	18.3	7.8	8.3
Line 600N 875E	217	19	<100	3.4	140	19.5	9.0	9.3
Line 600N 900E	95	27	<100	3.4	180	11.7	5.5	5.6
Line 600N 925E	154	30	<100	3.8	150	16.3	7.6	8.1
Line 600N 950E	43	18	100	1.5	190	4.5	2.8	1.7
Line 600N 975E	103	112	<100	1.0	590	6.1	3.8	1.9
Line 600N 1000E	59	79	<100	1.0	340	5.4	3.4	1.2
Line 600N 1025E	71	70	<100	0.8	190	5.7	3.9	1.6
Line 600N 1050E	133	75	<100	0.7	450	6.0	3.8	2.1
Line 600N 1075E	101	32	<100	0.5	190	5.3	3.0	1.8
Line 600N 1100E	<2	54	<100	2.0	10	<0.5	<0.2	<0.2
Line 600N 1125E	<2	69	<100	<0.2	10	0.7	0.5	<0.2
Line 600N 1150E	<2	51	<100	0.4	10	<0.5	0.3	<0.2
Line 600N 1175E	<2	69	<100	<0.2	20	1.1	0.8	<0.2
Line 600N 1200E	<2	62	<100	0.8	10	<0.5	0.3	<0.2
Line 600N 1225E	130	41	<100	4.0	480	16.2	12.3	2.9
Line 600N 1250E	20	38	<100	0.4	210	11.9	12.2	1.2
Line 600N 1275E	4	44	<100	<0.2	20	1.5	1.1	0.2
Line 600N 1300E	3	42	<100	0.4	10	0.8	0.7	<0.2
Line 600N 1325E	3	59	<100	<0.2	30	1.4	1.4	<0.2
Line 600N 1350E	180	48	100	2.5	1140	13.4	8.1	3.6
Line 600N 1375E	2	63	<100	<0.2	10	0.7	0.6	<0.2

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Element Method Det.Lim. Units	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
	GE_MMI_M 2 ppb	GE_MMI_M 1 ppb	GE_MMI_M 100 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 0.2 ppb
Line 600N 1400E	4	54	<100	<0.2	40	1.5	1.5	0.3
Line 600N 1425E	2	67	<100	0.2	10	<0.5	0.3	<0.2
Line 600N 1450E	<2	67	<100	0.3	<10	<0.5	0.3	<0.2
Line 600N 1475E	14	32	<100	0.4	60	1.6	0.9	0.4
Line 600N 1500E	7	48	<100	<0.2	80	3.1	3.0	0.3
Line 600N 1525E	<2	72	<100	0.8	<10	<0.5	<0.2	<0.2
*Rep Line 400N 1700E	200	79	<100	0.7	390	17.5	10.7	4.7
*Rep Line 600N 300EB	69	26	100	2.3	350	6.0	3.1	2.6
*Rep Line 600N 1000E	50	93	<100	1.1	480	4.0	2.4	1.1
*Rep Line 600N 1175E	<2	67	<100	<0.2	20	1.0	0.8	<0.2
*Std MMISRM24	32	15	<100	8.3	240	2.8	1.3	1.1
*Std MMISRM19	17	337	<100	3.7	2030	9.8	5.2	2.2
*Blk BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2
*Blk BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_M 1 ppm	GE_MMI_M 0.5 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 400N 1700E	28	0.6	20.9	<1	<0.1	8.2	73	8
Line 400N 1725E	57	2.0	47.9	<1	0.1	4.9	126	2
Line 400N 1750E	26	1.4	14.0	<1	<0.1	7.6	36	8
Line 400N 1775E	131	8.8	18.4	<1	0.2	4.6	26	11
Line 400N 1800E	55	2.7	1.3	<1	<0.1	1.6	3	<1
Line 400N 1825E	31	0.7	<0.5	<1	<0.1	2.0	<1	<1
Line 400N 1850E	9	0.8	0.8	<1	<0.1	<0.5	<1	<1
Line 400N 1875E	2	<0.5	0.6	<1	<0.1	0.7	<1	<1
Line 400N 1900E	5	<0.5	<0.5	<1	<0.1	0.8	<1	<1
Line 400N 1925E	25	0.9	<0.5	<1	<0.1	1.8	<1	<1
Line 400N 1950E	13	<0.5	<0.5	<1	<0.1	1.6	<1	<1
Line 400N 1975E	4	<0.5	<0.5	<1	<0.1	1.7	<1	<1
Line 400N 2000E	32	1.0	2.6	<1	<0.1	3.2	10	<1
Line 400N 2025E	40	9.6	0.5	<1	0.4	11.8	2	2
Line 400N 2050E	226	30.5	8.3	<1	2.1	23.8	9	22
Line 400N 2075E	49	2.4	20.7	<1	0.1	17.5	38	3
Line 400N 2100E	28	1.7	20.5	<1	<0.1	14.7	58	4
Line 400N 2125E	100	6.3	4.5	<1	0.6	30.9	12	7
Line 400N 2150E	108	5.4	3.4	<1	0.3	35.5	10	9
Line 400N 2175E	316	39.5	24.3	2	1.9	70.9	113	13
Line 400N 2200E	117	6.6	2.1	<1	0.2	33.2	10	9
Line 600N 0E	23	18.1	19.1	<1	0.2	20.8	82	<1
Line 600N 0EB	25	29.5	13.0	<1	0.2	14.4	57	<1
Line 600N 25E	10	10.5	27.7	<1	0.2	15.9	93	<1
Line 600N 50E	70	52.8	5.8	2	0.5	18.4	37	2
Line 600N 75E	51	31.7	9.3	<1	0.3	12.4	58	<1
Line 600N 100E	15	11.2	27.9	<1	0.2	20.5	95	<1
Line 600N 125E	4	4.9	36.3	<1	<0.1	16.6	75	<1
Line 600N 150E	2	3.4	40.5	<1	<0.1	11.5	92	<1
Line 600N 175E	27	16.1	16.3	<1	0.2	13.7	60	<1
Line 600N 200E	23	12.4	16.0	<1	0.2	11.4	50	<1
Line 600N 225E	32	15.1	11.5	<1	0.1	7.1	47	1
Line 600N 250E	142	146	4.9	1	0.8	22.8	33	12
Line 600N 275E	47	23.4	15.4	1	1.5	26.7	65	3
Line 600N 300E	34	21.3	23.5	1	0.2	16.8	107	1
Line 600N 300EB	85	57.9	7.1	1	0.5	16.6	40	2
Line 600N 325E	37	21.9	24.9	<1	0.5	20.0	73	<1
Line 600N 350E	7	12.8	25.1	<1	<0.1	7.8	66	<1
Line 600N 375E	10	9.2	22.0	<1	0.1	7.2	68	<1
Line 600N 400E	115	42.9	7.7	<1	1.0	29.1	46	8

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_M 1 ppm	GE_MMI_M 0.5 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 600N 425E	17	13.2	1.5	<1	0.3	23.6	16	1
Line 600N 450E	3	<0.5	7.0	1	<0.1	10.5	2	36
Line 600N 475E	9	<0.5	5.0	<1	<0.1	16.3	4	14
Line 600N 500E	7	0.5	10.8	<1	<0.1	12.6	9	10
Line 600N 525E	91	85.7	3.9	2	0.7	20.9	36	11
Line 600N 550E	94	94.1	6.1	2	0.9	22.4	44	10
Line 600N 575E	7	10.9	33.1	<1	0.1	13.8	94	<1
Line 600N 600E	12	9.7	13.6	<1	<0.1	9.2	50	<1
Line 600N 600EB	46	24.6	10.1	<1	0.3	15.6	53	1
Line 600N 625E	9	7.7	29.2	<1	0.1	25.6	77	<1
Line 600N 650E	3	3.7	31.6	<1	<0.1	19.7	50	<1
Line 600N 675E	10	6.7	38.3	<1	<0.1	23.5	101	<1
Line 600N 700E	8	9.7	17.0	<1	<0.1	7.2	51	<1
Line 600N 725E	28	15.8	14.1	<1	0.2	8.4	55	<1
Line 600N 750E	29	15.1	13.3	<1	0.2	8.4	54	<1
Line 600N 775E	75	22.4	10.3	<1	0.5	23.1	45	2
Line 600N 800E	4	8.1	36.6	<1	<0.1	7.9	110	<1
Line 600N 825E	12	13.9	21.5	<1	0.1	8.8	58	<1
Line 600N 850E	19	12.0	25.7	<1	0.1	16.2	65	<1
Line 600N 875E	12	10.1	28.1	<1	0.2	15.8	74	<1
Line 600N 900E	26	18.9	16.0	<1	0.3	13.8	47	<1
Line 600N 925E	13	9.4	26.4	<1	0.2	12.6	75	<1
Line 600N 950E	79	56.7	4.5	1	0.5	25.0	23	2
Line 600N 975E	226	2.8	7.0	<1	<0.1	3.3	35	9
Line 600N 1000E	259	3.1	5.8	<1	0.1	3.2	20	11
Line 600N 1025E	176	2.8	6.6	<1	0.1	3.3	26	12
Line 600N 1050E	78	1.8	8.5	<1	<0.1	4.0	47	5
Line 600N 1075E	64	1.6	6.7	<1	<0.1	4.4	36	5
Line 600N 1100E	4	1.0	<0.5	<1	<0.1	17.5	<1	1
Line 600N 1125E	7	0.5	0.8	<1	<0.1	1.0	<1	<1
Line 600N 1150E	6	0.6	<0.5	<1	<0.1	3.7	<1	<1
Line 600N 1175E	18	1.1	0.7	<1	<0.1	0.7	<1	<1
Line 600N 1200E	9	1.0	<0.5	<1	<0.1	5.2	<1	<1
Line 600N 1225E	50	11.4	14.7	<1	<0.1	7.5	61	33
Line 600N 1250E	81	6.3	6.6	<1	<0.1	0.8	9	2
Line 600N 1275E	30	2.0	1.3	<1	<0.1	1.1	1	<1
Line 600N 1300E	26	1.6	0.7	<1	<0.1	1.5	1	1
Line 600N 1325E	58	2.8	1.2	<1	<0.1	0.7	1	<1
Line 600N 1350E	26	4.0	15.3	<1	<0.1	7.3	72	15
Line 600N 1375E	19	1.5	0.6	<1	<0.1	1.6	<1	<1

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_M 1 ppm	GE_MMI_M 0.5 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 600N 1400E	58	3.1	1.3	<1	<0.1	1.3	2	<1
Line 600N 1425E	13	1.3	<0.5	<1	<0.1	3.2	<1	1
Line 600N 1450E	11	0.7	<0.5	<1	<0.1	2.9	<1	<1
Line 600N 1475E	11	1.1	1.7	<1	<0.1	9.1	5	7
Line 600N 1500E	68	3.7	2.0	<1	<0.1	1.1	4	<1
Line 600N 1525E	6	0.9	<0.5	<1	<0.1	7.1	<1	1
*Rep Line 400N 1700E	38	0.7	20.8	<1	<0.1	6.8	82	5
*Rep Line 600N 300EB	85	55.3	6.5	2	0.8	20.8	36	2
*Rep Line 600N 1000E	278	3.0	4.1	<1	<0.1	3.0	17	11
*Rep Line 600N 1175E	18	1.0	0.8	<1	<0.1	0.7	<1	<1
*Std MMISRM24	6	1.7	4.4	4	<0.1	10.7	12	<1
*Std MMISRM19	7	<0.5	11.4	1	<0.1	86.3	4	1
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	100	2	0.5	1	5	0.1	5
	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppb
Line 400N 1700E	131	3800	2	0.8	102	398	<0.1	109
Line 400N 1725E	87.0	1100	<2	1.1	176	380	0.2	313
Line 400N 1750E	104	2900	<2	1.0	54	234	0.2	189
Line 400N 1775E	77.1	2800	<2	1.0	47	198	0.3	473
Line 400N 1800E	51.4	4700	4	<0.5	4	41	0.9	379
Line 400N 1825E	62.8	5200	<2	<0.5	<1	18	0.9	325
Line 400N 1850E	85.5	7100	<2	<0.5	1	23	0.5	206
Line 400N 1875E	69.0	4000	<2	<0.5	<1	13	0.7	110
Line 400N 1900E	81.1	10200	<2	<0.5	<1	33	0.7	31
Line 400N 1925E	74.1	8300	3	<0.5	1	81	0.5	471
Line 400N 1950E	93.4	2300	4	<0.5	<1	39	0.4	52
Line 400N 1975E	82.9	1800	8	<0.5	<1	93	0.2	19
Line 400N 2000E	53.3	5400	6	<0.5	14	1000	0.3	115
Line 400N 2025E	24.7	100	8	0.6	2	123	1.6	107
Line 400N 2050E	37.1	800	3	3.8	46	239	2.6	2650
Line 400N 2075E	66.5	2000	<2	<0.5	70	925	0.3	319
Line 400N 2100E	62.6	4600	<2	<0.5	83	845	0.5	473
Line 400N 2125E	84.2	2500	<2	<0.5	17	291	0.6	1030
Line 400N 2150E	69.2	1700	<2	<0.5	13	294	0.7	164
Line 400N 2175E	64.1	3700	5	4.1	138	650	4.8	1530
Line 400N 2200E	80.1	1200	<2	<0.5	12	241	0.5	19
Line 600N 0E	4.7	4300	2	0.9	103	77	1.0	421
Line 600N 0EB	1.0	1000	3	1.2	74	32	1.0	353
Line 600N 25E	2.0	2200	2	<0.5	160	50	0.4	385
Line 600N 50E	3.4	2500	3	5.8	31	74	7.7	565
Line 600N 75E	1.6	1800	3	3.2	54	75	3.7	468
Line 600N 100E	3.2	3500	2	<0.5	145	62	0.7	402
Line 600N 125E	1.9	2100	3	<0.5	178	49	0.7	172
Line 600N 150E	0.8	1000	3	<0.5	206	39	0.6	77
Line 600N 175E	2.5	2600	3	1.8	79	69	2.0	264
Line 600N 200E	1.9	2000	3	1.7	79	53	1.4	271
Line 600N 225E	1.0	1500	3	2.8	56	42	2.2	144
Line 600N 250E	3.8	300	7	31.6	26	50	11.9	1160
Line 600N 275E	8.8	6800	3	3.2	79	94	5.2	958
Line 600N 300E	3.0	5000	3	1.7	129	107	2.8	413
Line 600N 300EB	2.2	3500	3	8.5	38	76	6.7	876
Line 600N 325E	4.9	4900	3	2.3	123	109	3.0	805
Line 600N 350E	0.6	1000	3	<0.5	130	46	0.3	217
Line 600N 375E	0.6	1200	2	<0.5	114	38	0.4	176
Line 600N 400E	6.0	3100	5	13.6	39	86	4.1	1580

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	100	2	0.5	1	5	0.1	5
	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppb
Line 600N 425E	1.6	300	4	4.0	10	24	5.4	524
Line 600N 450E	95.6	4000	8	<0.5	10	140	<0.1	51
Line 600N 475E	37.7	5400	14	<0.5	14	667	<0.1	86
Line 600N 500E	97.1	4200	4	<0.5	24	191	<0.1	33
Line 600N 525E	3.9	500	6	18.2	24	46	8.8	798
Line 600N 550E	6.5	3100	5	19.8	33	82	11.2	1060
Line 600N 575E	1.1	1600	3	<0.5	182	52	0.3	305
Line 600N 600E	0.5	700	3	<0.5	75	49	0.6	174
Line 600N 600EB	3.2	3400	3	3.0	56	84	3.0	464
Line 600N 625E	5.2	5000	3	<0.5	148	70	1.3	297
Line 600N 650E	3.7	3400	3	<0.5	144	65	0.9	118
Line 600N 675E	4.8	5200	3	0.7	188	73	2.0	199
Line 600N 700E	<0.5	800	2	<0.5	87	43	0.4	108
Line 600N 725E	1.0	1400	2	2.2	73	50	1.7	214
Line 600N 750E	1.0	1500	2	2.2	69	53	1.8	232
Line 600N 775E	2.2	1900	3	5.1	54	85	1.8	931
Line 600N 800E	0.5	1500	2	<0.5	215	56	0.2	166
Line 600N 825E	0.7	1200	3	<0.5	113	50	0.5	300
Line 600N 850E	0.6	1000	4	<0.5	136	58	0.3	347
Line 600N 875E	0.7	1000	4	<0.5	154	59	0.3	334
Line 600N 900E	2.1	3500	3	1.5	79	86	1.6	466
Line 600N 925E	1.8	2700	2	0.5	143	66	0.8	349
Line 600N 950E	4.8	4500	3	7.7	22	78	9.5	547
Line 600N 975E	37.7	12300	6	2.1	48	252	0.6	67
Line 600N 1000E	25.4	9000	4	2.0	28	245	0.7	92
Line 600N 1025E	44.8	11600	5	1.4	36	239	0.6	147
Line 600N 1050E	72.7	11300	6	1.2	62	242	0.4	44
Line 600N 1075E	66.6	6400	4	1.0	48	206	0.3	92
Line 600N 1100E	75.8	23600	3	<0.5	<1	31	1.8	488
Line 600N 1125E	64.1	9500	<2	<0.5	<1	36	0.4	142
Line 600N 1150E	68.3	13100	<2	<0.5	<1	41	0.6	402
Line 600N 1175E	58.4	7400	3	<0.5	1	42	0.3	103
Line 600N 1200E	67.9	14800	2	<0.5	<1	36	0.8	563
Line 600N 1225E	42.0	6400	3	3.4	58	233	0.7	463
Line 600N 1250E	45.1	3700	<2	<0.5	16	87	0.3	311
Line 600N 1275E	59.1	6200	<2	<0.5	2	49	0.4	159
Line 600N 1300E	60.6	7300	<2	<0.5	2	41	0.5	186
Line 600N 1325E	55.1	6800	2	<0.5	2	52	0.3	142
Line 600N 1350E	53.3	7500	7	3.3	81	205	0.4	563
Line 600N 1375E	60.5	10200	2	<0.5	1	40	0.4	282

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	100	2	0.5	1	5	0.1	5
	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppb
Line 600N 1400E	51.8	7400	2	<0.5	3	52	0.3	207
Line 600N 1425E	68.2	12800	2	<0.5	<1	37	0.6	363
Line 600N 1450E	66.6	12900	2	<0.5	<1	38	0.6	382
Line 600N 1475E	69.6	12100	<2	<0.5	7	63	0.2	300
Line 600N 1500E	45.3	6200	<2	<0.5	5	63	0.3	191
Line 600N 1525E	72.4	22400	3	<0.5	<1	35	0.9	438
*Rep Line 400N 1700E	111	4000	<2	1.0	111	348	0.1	97
*Rep Line 600N 300EB	4.2	3800	4	8.3	36	97	6.8	1150
*Rep Line 600N 1000E	24.6	9100	4	1.8	25	237	0.6	125
*Rep Line 600N 1175E	60.1	7700	2	<0.5	1	44	0.3	120
*Std MMISRM24	9.4	200	19	<0.5	21	122	0.6	181
*Std MMISRM19	178	5200	8	<0.5	15	1960	0.3	735
*Blk BLANK	<0.5	<100	<2	<0.5	<1	<5	<0.1	<5
*Blk BLANK	<0.5	<100	<2	<0.5	<1	<5	<0.1	<5

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Element Method Det.Lim. Units	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 400N 1700E	<1	23.2	<0.1	108	<0.5	18	20	<1
Line 400N 1725E	<1	41.6	<0.1	62	<0.5	45	43	<1
Line 400N 1750E	<1	12.0	<0.1	81	<0.5	20	13	<1
Line 400N 1775E	<1	9.6	<0.1	65	<0.5	38	12	<1
Line 400N 1800E	<1	0.8	<0.1	6	<0.5	<5	1	<1
Line 400N 1825E	<1	<0.5	<0.1	7	<0.5	<5	<1	<1
Line 400N 1850E	<1	<0.5	<0.1	2	<0.5	<5	<1	<1
Line 400N 1875E	<1	<0.5	<0.1	3	<0.5	<5	<1	<1
Line 400N 1900E	<1	<0.5	<0.1	3	<0.5	<5	<1	<1
Line 400N 1925E	<1	<0.5	<0.1	8	1.4	<5	<1	<1
Line 400N 1950E	<1	<0.5	<0.1	8	<0.5	<5	<1	<1
Line 400N 1975E	<1	<0.5	<0.1	6	<0.5	<5	<1	<1
Line 400N 2000E	<1	3.1	<0.1	10	<0.5	5	3	<1
Line 400N 2025E	<1	0.5	<0.1	39	<0.5	8	<1	<1
Line 400N 2050E	<1	2.5	<0.1	50	<0.5	33	2	2
Line 400N 2075E	<1	14.7	<0.1	94	<0.5	23	17	<1
Line 400N 2100E	<1	18.6	<0.1	65	<0.5	22	20	<1
Line 400N 2125E	<1	3.7	<0.1	114	<0.5	24	4	<1
Line 400N 2150E	<1	3.1	<0.1	223	<0.5	24	3	<1
Line 400N 2175E	<1	34.2	<0.1	350	1.0	78	28	3
Line 400N 2200E	<1	2.9	<0.1	126	<0.5	22	2	<1
Line 600N 0E	<1	24.1	<0.1	82	<0.5	33	22	<1
Line 600N 0EB	<1	17.7	<0.1	90	0.6	30	15	<1
Line 600N 25E	<1	35.4	<0.1	81	<0.5	30	33	<1
Line 600N 50E	<1	7.7	<0.1	59	0.9	22	6	2
Line 600N 75E	<1	13.5	<0.1	100	0.9	35	11	1
Line 600N 100E	<1	32.7	<0.1	69	<0.5	32	30	<1
Line 600N 125E	<1	34.3	<0.1	102	<0.5	22	41	<1
Line 600N 150E	<1	42.7	<0.1	91	<0.5	16	46	<1
Line 600N 175E	<1	18.3	<0.1	90	<0.5	35	19	<1
Line 600N 200E	<1	18.3	<0.1	93	<0.5	32	18	<1
Line 600N 225E	<1	13.7	<0.1	88	<0.5	28	13	<1
Line 600N 250E	<1	6.9	<0.1	31	2.0	28	5	12
Line 600N 275E	<1	19.0	<0.1	97	<0.5	44	17	2
Line 600N 300E	<1	29.5	<0.1	122	0.6	43	27	<1
Line 600N 300EB	<1	10.0	<0.1	67	1.1	29	8	3
Line 600N 325E	<1	27.1	<0.1	111	0.5	47	29	2
Line 600N 350E	<1	28.5	<0.1	105	<0.5	37	31	<1
Line 600N 375E	<1	26.2	<0.1	100	<0.5	34	26	<1
Line 600N 400E	<1	10.6	<0.1	76	1.8	30	8	7

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Element Method Det.Lim. Units	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	1	0.5	0.1	1	0.5	5	1	1
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Line 600N 425E	<1	3.1	<0.1	39	0.7	10	2	3
Line 600N 450E	<1	1.4	<0.1	31	<0.5	<5	4	<1
Line 600N 475E	<1	2.4	<0.1	85	0.9	<5	4	<1
Line 600N 500E	<1	3.9	<0.1	52	<0.5	14	8	<1
Line 600N 525E	<1	6.7	<0.1	25	2.2	41	5	8
Line 600N 550E	<1	8.8	<0.1	35	1.1	43	6	8
Line 600N 575E	<1	37.6	<0.1	98	<0.5	39	38	<1
Line 600N 600E	<1	16.9	<0.1	98	0.7	39	16	<1
Line 600N 600EB	<1	13.3	<0.1	104	0.8	52	12	<1
Line 600N 625E	<1	29.8	<0.1	91	<0.5	38	34	<1
Line 600N 650E	<1	26.9	<0.1	106	<0.5	26	34	<1
Line 600N 675E	<1	38.4	<0.1	93	<0.5	36	41	<1
Line 600N 700E	<1	19.6	<0.1	92	<0.5	32	20	<1
Line 600N 725E	<1	16.8	<0.1	79	0.6	38	16	1
Line 600N 750E	<1	16.5	<0.1	91	0.7	39	15	<1
Line 600N 775E	<1	13.0	<0.1	105	1.2	36	12	2
Line 600N 800E	<1	44.3	<0.1	107	<0.5	35	43	<1
Line 600N 825E	<1	24.6	<0.1	93	0.5	41	26	<1
Line 600N 850E	<1	28.8	<0.1	148	<0.5	38	31	<1
Line 600N 875E	<1	32.8	<0.1	145	<0.5	39	33	<1
Line 600N 900E	<1	16.9	<0.1	94	0.7	40	18	<1
Line 600N 925E	<1	29.6	<0.1	103	<0.5	43	30	<1
Line 600N 950E	<1	5.4	<0.1	23	1.3	29	5	3
Line 600N 975E	<1	11.6	<0.1	72	<0.5	32	9	<1
Line 600N 1000E	<1	6.6	<0.1	75	<0.5	36	6	<1
Line 600N 1025E	<1	8.2	<0.1	69	0.5	31	7	<1
Line 600N 1050E	<1	14.8	<0.1	56	<0.5	23	10	<1
Line 600N 1075E	<1	11.5	<0.1	41	<0.5	21	8	<1
Line 600N 1100E	<1	<0.5	<0.1	99	<0.5	13	<1	<1
Line 600N 1125E	<1	<0.5	<0.1	6	<0.5	9	<1	<1
Line 600N 1150E	<1	<0.5	<0.1	17	<0.5	11	<1	<1
Line 600N 1175E	<1	<0.5	<0.1	4	<0.5	12	<1	<1
Line 600N 1200E	<1	<0.5	<0.1	35	<0.5	14	<1	<1
Line 600N 1225E	<1	15.1	<0.1	65	<0.5	50	13	<1
Line 600N 1250E	<1	3.1	<0.1	10	<0.5	16	4	<1
Line 600N 1275E	<1	0.6	<0.1	6	<0.5	12	<1	<1
Line 600N 1300E	<1	<0.5	<0.1	7	<0.5	9	<1	<1
Line 600N 1325E	<1	<0.5	<0.1	7	<0.5	11	<1	<1
Line 600N 1350E	<1	19.6	<0.1	63	<0.5	31	15	<1
Line 600N 1375E	<1	<0.5	<0.1	6	<0.5	6	<1	<1

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Element Method Det.Lim. Units	Pd GE_MMI_M 1 ppb	Pr GE_MMI_M 0.5 ppb	Pt GE_MMI_M 0.1 ppb	Rb GE_MMI_M 1 ppb	Sb GE_MMI_M 0.5 ppb	Sc GE_MMI_M 5 ppb	Sm GE_MMI_M 1 ppb	Sn GE_MMI_M 1 ppb
Line 600N 1400E	<1	0.5	<0.1	6	<0.5	9	<1	<1
Line 600N 1425E	<1	<0.5	<0.1	11	<0.5	8	<1	<1
Line 600N 1450E	<1	<0.5	<0.1	12	<0.5	7	<1	<1
Line 600N 1475E	<1	1.6	<0.1	33	<0.5	15	2	<1
Line 600N 1500E	<1	1.0	<0.1	5	<0.5	7	1	<1
Line 600N 1525E	<1	<0.5	<0.1	39	<0.5	9	<1	<1
*Rep Line 400N 1700E	<1	25.1	<0.1	103	<0.5	20	21	<1
*Rep Line 600N 300EB	<1	8.8	<0.1	57	1.1	28	8	3
*Rep Line 600N 1000E	<1	5.7	<0.1	81	<0.5	32	5	<1
*Rep Line 600N 1175E	<1	<0.5	<0.1	4	<0.5	7	<1	<1
*Std MMISRM24	5	4.6	2.3	121	<0.5	<5	5	<1
*Std MMISRM19	<1	2.4	<0.1	186	0.8	22	7	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1

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Element Method Det.Lim. Units	Sr GE_MMI_M 10 ppb	Ta GE_MMI_M 1 ppb	Tb GE_MMI_M 0.1 ppb	Te GE_MMI_M 10 ppb	Th GE_MMI_M 0.5 ppb	Ti GE_MMI_M 10 ppb	Tl GE_MMI_M 0.1 ppb	U GE_MMI_M 0.5 ppb
Line 400N 1700E	980	<1	2.9	<10	24.2	30	0.4	50.6
Line 400N 1725E	660	<1	7.7	<10	35.9	60	0.3	21.3
Line 400N 1750E	820	<1	2.0	<10	22.9	50	0.2	11.5
Line 400N 1775E	610	<1	4.1	<10	16.7	240	0.6	17.5
Line 400N 1800E	360	<1	0.2	<10	1.3	20	<0.1	0.6
Line 400N 1825E	360	<1	<0.1	<10	0.6	<10	<0.1	<0.5
Line 400N 1850E	470	<1	0.1	<10	<0.5	<10	<0.1	<0.5
Line 400N 1875E	390	<1	<0.1	<10	<0.5	<10	<0.1	<0.5
Line 400N 1900E	490	<1	<0.1	<10	<0.5	<10	<0.1	<0.5
Line 400N 1925E	460	<1	<0.1	<10	<0.5	10	0.1	<0.5
Line 400N 1950E	550	<1	<0.1	<10	<0.5	<10	<0.1	<0.5
Line 400N 1975E	540	<1	<0.1	<10	<0.5	<10	<0.1	0.8
Line 400N 2000E	430	<1	0.3	<10	1.0	<10	0.4	43.0
Line 400N 2025E	380	<1	0.1	<10	7.8	50	0.2	2.2
Line 400N 2050E	360	<1	1.7	<10	12.6	1220	0.3	7.6
Line 400N 2075E	760	<1	3.5	<10	9.0	60	0.2	17.1
Line 400N 2100E	570	<1	2.8	<10	7.5	100	0.2	23.5
Line 400N 2125E	830	<1	0.8	<10	7.7	60	0.3	20.3
Line 400N 2150E	830	<1	0.6	<10	7.4	90	0.3	13.5
Line 400N 2175E	1550	<1	3.7	<10	61.0	770	1.5	22.5
Line 400N 2200E	1050	<1	0.3	<10	5.7	80	0.4	8.3
Line 600N 0E	70	<1	2.5	<10	6.5	320	0.2	3.8
Line 600N 0EB	20	<1	1.6	<10	6.0	400	0.3	3.2
Line 600N 25E	60	<1	3.6	<10	3.1	50	0.2	3.8
Line 600N 50E	130	<1	0.8	<10	12.4	1890	0.5	3.9
Line 600N 75E	80	<1	1.3	<10	12.7	950	0.6	4.7
Line 600N 100E	90	<1	3.6	<10	5.7	160	0.2	5.0
Line 600N 125E	120	<1	4.4	<10	2.1	20	0.2	4.5
Line 600N 150E	80	<1	4.4	<10	1.4	<10	0.3	3.6
Line 600N 175E	90	<1	2.2	<10	9.8	640	0.4	5.8
Line 600N 200E	70	<1	2.2	<10	9.6	550	0.5	5.8
Line 600N 225E	50	<1	1.6	<10	15.8	870	0.4	5.2
Line 600N 250E	140	2	0.7	<10	17.5	11300	0.4	4.0
Line 600N 275E	150	<1	2.1	<10	13.0	1090	0.6	4.7
Line 600N 300E	90	<1	3.0	<10	10.8	610	0.4	5.9
Line 600N 300EB	80	<1	1.0	<10	15.1	2560	0.4	4.4
Line 600N 325E	140	<1	3.3	<10	11.1	850	0.3	6.0
Line 600N 350E	30	<1	3.5	<10	4.0	50	0.3	6.0
Line 600N 375E	30	<1	3.0	<10	6.7	60	0.4	6.0
Line 600N 400E	130	<1	1.0	<10	25.6	3620	0.3	4.9

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Element Method Det.Lim. Units	Sr GE_MMI_M 10 ppb	Ta GE_MMI_M 1 ppb	Tb GE_MMI_M 0.1 ppb	Te GE_MMI_M 10 ppb	Th GE_MMI_M 0.5 ppb	Ti GE_MMI_M 10 ppb	Tl GE_MMI_M 0.1 ppb	U GE_MMI_M 0.5 ppb
Line 600N 425E	80	<1	0.3	<10	6.6	1170	0.2	2.1
Line 600N 450E	440	<1	1.0	<10	5.1	10	0.5	18.7
Line 600N 475E	210	<1	0.6	<10	7.7	20	0.8	15.7
Line 600N 500E	550	<1	1.4	<10	7.5	40	0.3	15.1
Line 600N 525E	120	1	0.6	<10	14.5	6400	0.3	3.7
Line 600N 550E	180	1	0.9	<10	19.3	6620	0.5	4.8
Line 600N 575E	60	<1	4.0	<10	2.6	30	0.2	4.4
Line 600N 600E	50	<1	2.1	<10	5.9	160	0.4	5.6
Line 600N 600EB	120	<1	1.5	<10	12.3	880	0.4	5.9
Line 600N 625E	160	<1	3.8	<10	4.4	110	0.2	6.5
Line 600N 650E	110	<1	3.7	<10	1.5	30	0.3	4.2
Line 600N 675E	190	<1	4.7	<10	6.2	240	0.3	7.0
Line 600N 700E	40	<1	2.4	<10	4.5	90	0.2	4.7
Line 600N 725E	50	<1	1.8	<10	10.6	640	0.4	5.4
Line 600N 750E	60	<1	2.0	<10	12.2	640	0.4	5.2
Line 600N 775E	60	<1	1.5	<10	19.6	1210	0.3	5.0
Line 600N 800E	20	<1	4.3	<10	2.2	20	0.3	3.9
Line 600N 825E	30	<1	2.8	<10	5.1	160	0.2	5.5
Line 600N 850E	30	<1	3.5	<10	4.6	70	0.2	4.7
Line 600N 875E	20	<1	3.8	<10	4.2	20	0.1	4.7
Line 600N 900E	60	<1	2.2	<10	7.2	480	0.2	4.2
Line 600N 925E	50	<1	3.2	<10	5.5	190	0.3	4.3
Line 600N 950E	180	<1	0.7	<10	12.4	2040	0.3	3.5
Line 600N 975E	360	<1	1.0	<10	16.4	280	0.3	30.5
Line 600N 1000E	310	<1	0.9	<10	15.7	340	0.3	36.0
Line 600N 1025E	360	<1	0.9	<10	13.5	220	0.4	33.9
Line 600N 1050E	420	<1	1.1	<10	17.2	100	0.3	23.9
Line 600N 1075E	400	<1	0.9	<10	13.9	90	0.3	15.9
Line 600N 1100E	560	<1	<0.1	<10	<0.5	20	0.4	<0.5
Line 600N 1125E	500	<1	<0.1	<10	<0.5	<10	<0.1	<0.5
Line 600N 1150E	520	<1	<0.1	<10	<0.5	<10	0.2	<0.5
Line 600N 1175E	470	<1	0.1	<10	<0.5	<10	<0.1	0.8
Line 600N 1200E	540	<1	<0.1	<10	<0.5	10	0.2	<0.5
Line 600N 1225E	420	<1	2.3	<10	24.2	640	0.5	17.3
Line 600N 1250E	470	<1	1.3	<10	3.9	50	<0.1	78.7
Line 600N 1275E	490	<1	0.2	<10	<0.5	10	<0.1	1.6
Line 600N 1300E	470	<1	0.1	<10	<0.5	10	<0.1	1.1
Line 600N 1325E	480	<1	0.2	<10	<0.5	10	<0.1	2.0
Line 600N 1350E	550	<1	2.1	<10	56.4	270	0.4	98.1
Line 600N 1375E	470	<1	0.1	<10	<0.5	<10	<0.1	0.6

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Element Method Det.Lim. Units	Sr	Ta	Tb	Te	Th	Ti	Tl	U
	GE_MMI_M 10 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 0.5 ppb
Line 600N 1400E	460	<1	0.2	<10	0.6	20	<0.1	2.4
Line 600N 1425E	540	<1	<0.1	<10	<0.5	10	0.2	<0.5
Line 600N 1450E	520	<1	<0.1	<10	<0.5	<10	0.1	<0.5
Line 600N 1475E	600	<1	0.3	<10	2.5	30	0.2	1.1
Line 600N 1500E	430	<1	0.4	<10	0.9	20	<0.1	7.6
Line 600N 1525E	570	<1	<0.1	<10	<0.5	10	0.3	<0.5
*Rep Line 400N 1700E	830	<1	2.8	<10	25.1	40	0.3	58.8
*Rep Line 600N 300EB	120	<1	1.1	<10	16.0	2490	0.4	4.5
*Rep Line 600N 1000E	320	<1	0.6	<10	13.9	330	0.3	28.5
*Rep Line 600N 1175E	480	<1	0.1	<10	<0.5	10	<0.1	0.7
*Std MMISRM24	1190	<1	0.6	<10	14.5	30	0.1	9.0
*Std MMISRM19	3400	<1	1.6	<10	13.9	<10	0.8	56.0
*Blk BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5
*Blk BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5

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Element Method Det.Lim. Units	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	1	0.2	10	2
	ppb	ppb	ppb	ppb	ppb
Line 400N 1700E	<0.5	105	12.5	1110	24
Line 400N 1725E	<0.5	323	28.6	310	47
Line 400N 1750E	<0.5	76	8.0	770	31
Line 400N 1775E	<0.5	270	30.9	480	34
Line 400N 1800E	<0.5	7	0.7	470	3
Line 400N 1825E	<0.5	1	<0.2	1010	<2
Line 400N 1850E	<0.5	5	0.6	880	<2
Line 400N 1875E	<0.5	3	0.3	730	<2
Line 400N 1900E	<0.5	<1	<0.2	380	<2
Line 400N 1925E	<0.5	2	0.2	1730	<2
Line 400N 1950E	<0.5	2	<0.2	1170	<2
Line 400N 1975E	<0.5	<1	<0.2	490	<2
Line 400N 2000E	<0.5	16	1.3	130	<2
Line 400N 2025E	0.6	4	0.7	510	14
Line 400N 2050E	0.7	54	11.5	3150	19
Line 400N 2075E	<0.5	175	13.9	760	5
Line 400N 2100E	<0.5	101	7.8	1360	8
Line 400N 2125E	<0.5	42	17.2	3660	6
Line 400N 2150E	<0.5	33	15.9	2780	6
Line 400N 2175E	2.3	106	13.0	6410	50
Line 400N 2200E	<0.5	13	7.3	300	7
Line 600N 0E	<0.5	66	4.8	740	15
Line 600N 0EB	<0.5	44	3.9	330	17
Line 600N 25E	<0.5	84	5.4	410	6
Line 600N 50E	0.6	22	2.2	930	42
Line 600N 75E	<0.5	34	3.3	400	37
Line 600N 100E	<0.5	81	5.4	840	11
Line 600N 125E	<0.5	95	5.1	340	5
Line 600N 150E	<0.5	104	5.3	140	4
Line 600N 175E	<0.5	50	4.2	680	26
Line 600N 200E	<0.5	47	3.7	500	23
Line 600N 225E	<0.5	35	3.2	440	35
Line 600N 250E	2.8	19	1.8	330	100
Line 600N 275E	<0.5	58	5.2	3000	31
Line 600N 300E	<0.5	82	6.4	650	28
Line 600N 300EB	0.6	26	2.5	1060	53
Line 600N 325E	<0.5	80	6.2	1320	25
Line 600N 350E	<0.5	71	6.1	210	10
Line 600N 375E	<0.5	63	4.9	350	15
Line 600N 400E	1.4	28	2.2	1060	73

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Element Method Det.Lim. Units	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	1	0.2	10	2
	ppb	ppb	ppb	ppb	ppb
Line 600N 425E	0.8	10	0.8	190	38
Line 600N 450E	<0.5	30	2.8	60	11
Line 600N 475E	<0.5	24	2.7	140	111
Line 600N 500E	<0.5	42	3.5	50	23
Line 600N 525E	2.4	17	1.5	200	90
Line 600N 550E	2.2	24	2.1	870	83
Line 600N 575E	<0.5	100	6.0	260	5
Line 600N 600E	<0.5	45	3.9	150	15
Line 600N 600EB	<0.5	38	3.5	780	35
Line 600N 625E	<0.5	83	5.2	790	10
Line 600N 650E	<0.5	79	4.0	640	4
Line 600N 675E	<0.5	109	6.0	770	14
Line 600N 700E	<0.5	51	3.8	120	11
Line 600N 725E	<0.5	43	3.3	320	26
Line 600N 750E	<0.5	41	3.4	410	28
Line 600N 775E	<0.5	35	2.9	570	42
Line 600N 800E	<0.5	118	6.7	210	5
Line 600N 825E	<0.5	62	5.3	250	11
Line 600N 850E	<0.5	76	5.8	170	12
Line 600N 875E	<0.5	85	6.1	160	10
Line 600N 900E	<0.5	54	4.2	610	19
Line 600N 925E	<0.5	87	5.3	750	11
Line 600N 950E	0.5	21	2.0	1280	42
Line 600N 975E	<0.5	34	3.3	580	42
Line 600N 1000E	<0.5	65	3.1	650	52
Line 600N 1025E	<0.5	35	3.3	1520	37
Line 600N 1050E	<0.5	37	3.1	620	21
Line 600N 1075E	<0.5	31	2.8	1030	17
Line 600N 1100E	<0.5	<1	<0.2	3130	<2
Line 600N 1125E	<0.5	4	0.6	1460	<2
Line 600N 1150E	<0.5	2	<0.2	1900	<2
Line 600N 1175E	<0.5	6	0.9	1120	<2
Line 600N 1200E	<0.5	2	0.2	1120	<2
Line 600N 1225E	<0.5	111	10.0	230	74
Line 600N 1250E	<0.5	91	10.3	310	10
Line 600N 1275E	<0.5	9	1.0	1150	<2
Line 600N 1300E	<0.5	5	0.6	1270	<2
Line 600N 1325E	<0.5	9	1.5	890	<2
Line 600N 1350E	<0.5	71	7.1	200	79
Line 600N 1375E	<0.5	4	0.5	1240	<2

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Element Method Det.Lim. Units	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	1	0.2	10	2
	ppb	ppb	ppb	ppb	ppb
Line 600N 1400E	<0.5	11	1.5	950	2
Line 600N 1425E	<0.5	3	0.4	2020	<2
Line 600N 1450E	<0.5	2	0.3	1380	<2
Line 600N 1475E	<0.5	8	0.7	1520	9
Line 600N 1500E	<0.5	23	3.1	630	3
Line 600N 1525E	<0.5	1	<0.2	1340	<2
*Rep Line 400N 1700E	<0.5	94	8.9	960	26
*Rep Line 600N 300EB	0.7	26	2.6	1340	51
*Rep Line 600N 1000E	<0.5	63	2.3	760	42
*Rep Line 600N 1175E	<0.5	6	0.8	1120	<2
*Std MMISRM24	<0.5	18	0.9	180	23
*Std MMISRM19	<0.5	52	4.0	1990	12
*Blk BLANK	<0.5	<1	<0.2	<10	<2
*Blk BLANK	<0.5	<1	<0.2	<10	<2

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Certificate of Analysis
Work Order : VC183054
[Report File No.: 000031720]

Date: September 26, 2018

To: Charles Gryba
COD SGS MINERALS - GEOCHEM VANCOUVER
Central Timmins Exploration Corp.
200 Bay Street, Suite 2350
Toronto
ONT M5J 2J2

P.O. No.: Central Timmins Exploration Corp.
Project No.: -
Samples: 28
Received: Aug 21, 2018
Pages: Page 1 to 8
(Inclusive of Cover Sheet)

Methods Summary

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

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE 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

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppm	GE_MMI_M 10 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 2 ppm	GE_MMI_M 1 ppb
Line 600N 1550E	<0.5	25	<10	<0.1	180	<0.5	445	31
Line 600N 1575E	<0.5	14	<10	<0.1	210	<0.5	455	38
Line 600N 1600E	5.8	114	<10	<0.1	870	<0.5	470	47
Line 600N 1625E	<0.5	11	<10	<0.1	270	<0.5	487	47
Line 600N 1650E	<0.5	6	<10	<0.1	220	<0.5	522	44
Line 600N 1675E	<0.5	18	<10	<0.1	190	<0.5	427	26
Line 600N 1700E	0.8	62	<10	<0.1	210	<0.5	381	45
Line 600N 1725E	<0.5	9	<10	<0.1	120	<0.5	442	8
Line 600N 1750E	<0.5	10	<10	<0.1	120	<0.5	375	7
Line 600N 1775E	<0.5	10	<10	<0.1	110	<0.5	369	5
Line 600N 1800E	<0.5	10	<10	<0.1	110	<0.5	340	8
Line 600N 1825E	<0.5	2	<10	<0.1	160	<0.5	572	28
Line 600N 1850E	<0.5	2	<10	<0.1	170	<0.5	587	17
Line 600N 1875E	<0.5	3	<10	<0.1	160	<0.5	532	18
Line 600N 1900E	<0.5	4	<10	<0.1	160	<0.5	552	18
Line 600N 1925E	3.0	216	40	0.4	610	2.6	48	12
Line 600N 1950E	5.3	300	40	0.1	710	2.1	15	22
Line 600N 1975E	2.9	308	140	0.1	1080	9.3	14	59
Line 600N 2000E	3.8	305	70	<0.1	690	2.2	11	13
Line 600N 2025E	11.8	185	10	0.1	1150	0.5	156	22
Line 600N 2050E	13.9	192	10	0.1	1140	0.6	152	20
Line 600N 2075E	8.1	206	10	0.4	930	<0.5	82	10
Line 600N 2100E	8.0	215	20	0.2	900	<0.5	72	7
Line 600N 2100EB	8.1	217	10	0.2	980	<0.5	129	16
Line 600N 2125E	12.0	285	20	<0.1	1190	0.7	112	18
Line 600N 2150E	11.3	281	20	0.1	1140	0.9	105	18
Line 600N 2175E	7.0	135	10	0.2	1160	0.8	223	56
Line 600N 2200E	12.3	252	20	<0.1	1060	0.5	93	15
*Rep Line 600N 1675E	<0.5	16	<10	<0.1	190	<0.5	429	24
*Rep Line 600N 1775E	<0.5	10	<10	<0.1	100	<0.5	354	6
*Std MMISRM24	22.3	31	<10	3.3	110	<0.5	69	6
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1

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Element Method Det.Lim. Units	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
	GE_MMI_M 2 ppb	GE_MMI_M 1 ppb	GE_MMI_M 100 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 0.2 ppb
Line 600N 1550E	<2	54	<100	<0.2	20	0.9	0.9	<0.2
Line 600N 1575E	<2	61	<100	0.4	10	<0.5	0.4	<0.2
Line 600N 1600E	146	43	<100	3.0	420	14.7	10.6	3.1
Line 600N 1625E	<2	47	<100	0.3	<10	<0.5	0.3	<0.2
Line 600N 1650E	<2	29	<100	0.3	<10	<0.5	0.3	<0.2
Line 600N 1675E	3	29	<100	0.3	10	0.8	0.6	<0.2
Line 600N 1700E	15	21	<100	0.6	120	6.0	5.1	0.8
Line 600N 1725E	<2	5	<100	0.4	<10	<0.5	<0.2	<0.2
Line 600N 1750E	<2	5	<100	<0.2	<10	<0.5	0.2	<0.2
Line 600N 1775E	3	4	<100	<0.2	<10	0.5	0.3	<0.2
Line 600N 1800E	3	5	<100	<0.2	<10	<0.5	0.3	<0.2
Line 600N 1825E	<2	7	<100	0.9	<10	<0.5	<0.2	<0.2
Line 600N 1850E	<2	10	<100	0.2	<10	<0.5	<0.2	<0.2
Line 600N 1875E	<2	11	<100	<0.2	10	<0.5	<0.2	<0.2
Line 600N 1900E	<2	13	<100	0.3	40	0.6	0.3	<0.2
Line 600N 1925E	57	32	200	2.1	280	4.1	1.9	1.3
Line 600N 1950E	108	58	400	5.4	310	8.8	4.3	3.1
Line 600N 1975E	130	88	500	6.8	460	7.1	4.5	2.1
Line 600N 2000E	77	36	500	7.0	220	5.4	3.0	1.8
Line 600N 2025E	102	40	100	3.5	130	8.9	4.9	2.8
Line 600N 2050E	123	43	200	4.5	150	10.9	5.3	3.8
Line 600N 2075E	248	64	100	5.4	110	16.7	7.1	7.6
Line 600N 2100E	244	72	100	5.0	110	16.2	6.6	7.1
Line 600N 2100EB	208	71	200	4.4	160	14.6	6.2	5.9
Line 600N 2125E	200	43	200	8.0	150	16.8	7.2	5.7
Line 600N 2150E	158	49	200	9.3	190	12.7	5.6	4.0
Line 600N 2175E	55	39	100	3.1	200	4.7	2.2	1.5
Line 600N 2200E	218	52	200	7.2	120	18.4	8.0	6.6
*Rep Line 600N 1675E	<2	29	<100	0.4	<10	0.7	0.4	<0.2
*Rep Line 600N 1775E	2	5	<100	<0.2	<10	<0.5	0.3	<0.2
*Std MMISRM24	29	16	<100	10.4	300	2.8	0.9	0.9
*Blk BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_M 1 ppm	GE_MMI_M 0.5 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 600N 1550E	34	1.7	0.8	<1	<0.1	0.5	<1	<1
Line 600N 1575E	12	1.0	<0.5	<1	<0.1	3.2	<1	1
Line 600N 1600E	48	6.9	13.1	<1	<0.1	5.9	61	25
Line 600N 1625E	11	1.0	<0.5	<1	<0.1	0.7	<1	1
Line 600N 1650E	6	<0.5	<0.5	<1	<0.1	1.5	<1	1
Line 600N 1675E	29	1.6	0.6	<1	<0.1	<0.5	<1	<1
Line 600N 1700E	120	3.4	4.9	<1	<0.1	0.8	7	6
Line 600N 1725E	33	0.8	<0.5	<1	<0.1	1.5	<1	<1
Line 600N 1750E	52	1.0	0.6	<1	<0.1	0.7	<1	<1
Line 600N 1775E	55	1.1	0.5	<1	<0.1	<0.5	1	<1
Line 600N 1800E	83	1.2	<0.5	<1	<0.1	0.9	<1	<1
Line 600N 1825E	6	<0.5	<0.5	<1	<0.1	8.9	<1	<1
Line 600N 1850E	5	<0.5	<0.5	<1	<0.1	3.1	<1	<1
Line 600N 1875E	5	<0.5	<0.5	<1	<0.1	3.5	<1	<1
Line 600N 1900E	5	<0.5	0.7	<1	<0.1	1.7	<1	<1
Line 600N 1925E	121	55.6	4.1	<1	1.2	13.1	33	12
Line 600N 1950E	231	55.4	8.7	1	0.5	14.2	53	18
Line 600N 1975E	307	98.3	7.6	2	1.7	20.9	59	46
Line 600N 2000E	255	100	5.5	<1	0.4	15.0	40	35
Line 600N 2025E	115	35.5	10.6	1	0.1	25.5	50	14
Line 600N 2050E	123	38.1	14.2	1	0.2	24.1	68	13
Line 600N 2075E	72	21.4	24.9	1	0.1	13.4	150	6
Line 600N 2100E	63	20.4	23.0	1	0.2	10.2	134	6
Line 600N 2100EB	81	23.4	19.9	<1	0.2	13.0	110	7
Line 600N 2125E	161	58.3	21.6	<1	0.2	34.1	146	51
Line 600N 2150E	175	66.2	15.5	1	0.2	37.7	101	58
Line 600N 2175E	92	25.9	5.6	<1	0.3	53.9	28	19
Line 600N 2200E	135	48.0	24.8	1	0.2	23.6	156	36
*Rep Line 600N 1675E	22	1.4	0.6	<1	<0.1	<0.5	<1	<1
*Rep Line 600N 1775E	56	1.1	<0.5	<1	<0.1	<0.5	1	<1
*Std MMISRM24	8	2.1	3.7	5	<0.1	12.7	11	1
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_M 0.5 ppm	GE_MMI_M 100 ppb	GE_MMI_M 2 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 5 ppb	GE_MMI_M 0.1 ppm	GE_MMI_M 5 ppb
Line 600N 1550E	56.5	7200	<2	<0.5	1	46	0.1	90
Line 600N 1575E	67.3	13900	<2	<0.5	<1	42	0.4	292
Line 600N 1600E	45.4	10100	3	3.0	65	202	0.3	470
Line 600N 1625E	71.5	12100	<2	<0.5	<1	37	0.3	469
Line 600N 1650E	82.4	7600	<2	<0.5	<1	46	0.6	488
Line 600N 1675E	59.6	10700	<2	<0.5	1	39	0.2	173
Line 600N 1700E	43.2	5500	<2	<0.5	10	66	<0.1	241
Line 600N 1725E	63.0	1800	4	<0.5	<1	28	0.3	146
Line 600N 1750E	54.5	2500	2	<0.5	1	22	0.1	134
Line 600N 1775E	50.3	1600	4	<0.5	2	20	0.2	80
Line 600N 1800E	46.0	3000	5	<0.5	1	22	0.3	94
Line 600N 1825E	75.8	8400	4	<0.5	<1	63	0.5	270
Line 600N 1850E	77.1	1200	2	<0.5	<1	111	0.2	45
Line 600N 1875E	70.1	1900	<2	<0.5	<1	117	0.2	67
Line 600N 1900E	73.6	1600	3	<0.5	1	155	0.2	63
Line 600N 1925E	4.8	600	5	21.7	22	74	7.9	1350
Line 600N 1950E	3.9	2400	4	18.7	50	130	6.7	695
Line 600N 1975E	10.3	1800	8	43.5	43	332	15.1	1840
Line 600N 2000E	8.0	500	5	34.2	31	113	8.6	301
Line 600N 2025E	8.4	9600	5	17.1	49	194	3.8	275
Line 600N 2050E	7.9	9600	5	18.7	64	172	3.9	262
Line 600N 2075E	3.5	5400	6	11.7	128	109	4.0	202
Line 600N 2100E	3.1	5300	5	12.1	122	114	4.4	168
Line 600N 2100EB	5.7	8000	5	13.5	104	137	4.5	236
Line 600N 2125E	10.2	6300	7	20.1	115	140	19.4	260
Line 600N 2150E	10.9	6500	5	22.4	75	144	17.2	262
Line 600N 2175E	14.1	19700	8	12.6	29	175	7.6	175
Line 600N 2200E	6.4	5300	8	15.2	128	109	17.0	251
*Rep Line 600N 1675E	58.3	10700	<2	<0.5	1	39	0.2	200
*Rep Line 600N 1775E	48.3	1800	5	<0.5	1	20	0.2	62
*Std MMISRM24	9.5	200	23	<0.5	18	124	0.5	170
*Blk BLANK	<0.5	<100	<2	<0.5	<1	<5	<0.1	<5

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Element Method Det.Lim. Units	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 600N 1550E	<1	<0.5	<0.1	5	<0.5	7	<1	<1
Line 600N 1575E	<1	<0.5	<0.1	15	<0.5	6	<1	<1
Line 600N 1600E	<1	16.8	<0.1	55	<0.5	40	14	<1
Line 600N 1625E	<1	<0.5	<0.1	4	<0.5	5	<1	<1
Line 600N 1650E	<1	<0.5	<0.1	5	<0.5	6	<1	<1
Line 600N 1675E	<1	<0.5	<0.1	5	<0.5	5	<1	<1
Line 600N 1700E	<1	2.1	<0.1	10	<0.5	12	3	<1
Line 600N 1725E	<1	<0.5	<0.1	11	<0.5	<5	<1	<1
Line 600N 1750E	<1	<0.5	<0.1	6	<0.5	<5	<1	<1
Line 600N 1775E	<1	<0.5	<0.1	5	<0.5	<5	<1	<1
Line 600N 1800E	<1	<0.5	<0.1	8	<0.5	<5	<1	<1
Line 600N 1825E	<1	<0.5	<0.1	49	<0.5	<5	<1	<1
Line 600N 1850E	<1	<0.5	<0.1	13	<0.5	<5	<1	<1
Line 600N 1875E	<1	<0.5	<0.1	14	<0.5	<5	<1	9
Line 600N 1900E	<1	<0.5	<0.1	11	<0.5	<5	<1	<1
Line 600N 1925E	<1	6.1	<0.1	53	1.2	44	4	10
Line 600N 1950E	<1	12.7	<0.1	93	1.0	64	10	5
Line 600N 1975E	<1	12.1	<0.1	136	3.3	114	9	20
Line 600N 2000E	<1	8.1	<0.1	131	1.4	88	6	10
Line 600N 2025E	<1	12.1	<0.1	77	<0.5	39	11	3
Line 600N 2050E	<1	15.9	<0.1	80	0.5	43	14	3
Line 600N 2075E	<1	32.4	<0.1	74	<0.5	40	27	2
Line 600N 2100E	<1	31.1	<0.1	75	<0.5	39	27	1
Line 600N 2100EB	<1	26.2	<0.1	94	<0.5	40	22	2
Line 600N 2125E	<1	30.2	<0.1	374	0.6	76	23	3
Line 600N 2150E	<1	20.6	<0.1	402	0.7	86	16	4
Line 600N 2175E	<1	7.2	<0.1	318	0.5	37	6	4
Line 600N 2200E	<1	33.8	<0.1	344	<0.5	62	27	2
*Rep Line 600N 1675E	<1	<0.5	<0.1	5	<0.5	<5	<1	<1
*Rep Line 600N 1775E	<1	<0.5	<0.1	4	<0.5	<5	<1	<1
*Std MMISRM24	5	4.1	2.4	139	<0.5	7	4	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1

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Element Method Det.Lim. Units	Sr GE_MMI_M 10 ppb	Ta GE_MMI_M 1 ppb	Tb GE_MMI_M 0.1 ppb	Te GE_MMI_M 10 ppb	Th GE_MMI_M 0.5 ppb	Ti GE_MMI_M 10 ppb	Tl GE_MMI_M 0.1 ppb	U GE_MMI_M 0.5 ppb
Line 600N 1550E	490	<1	0.1	<10	<0.5	<10	<0.1	0.7
Line 600N 1575E	560	<1	<0.1	<10	<0.5	10	0.2	<0.5
Line 600N 1600E	500	<1	2.3	<10	30.3	440	0.3	92.0
Line 600N 1625E	550	<1	<0.1	<10	<0.5	<10	0.2	<0.5
Line 600N 1650E	580	<1	<0.1	<10	<0.5	<10	0.2	<0.5
Line 600N 1675E	480	<1	0.1	<10	<0.5	<10	<0.1	1.1
Line 600N 1700E	470	<1	0.7	<10	3.6	30	<0.1	28.3
Line 600N 1725E	410	<1	<0.1	<10	<0.5	<10	<0.1	<0.5
Line 600N 1750E	360	<1	<0.1	<10	<0.5	<10	<0.1	<0.5
Line 600N 1775E	330	<1	<0.1	<10	<0.5	<10	<0.1	0.7
Line 600N 1800E	310	<1	<0.1	<10	<0.5	<10	<0.1	0.7
Line 600N 1825E	540	<1	<0.1	<10	<0.5	<10	0.2	<0.5
Line 600N 1850E	620	<1	<0.1	<10	<0.5	<10	<0.1	0.7
Line 600N 1875E	530	<1	<0.1	<10	<0.5	<10	<0.1	0.9
Line 600N 1900E	560	<1	<0.1	<10	<0.5	<10	<0.1	4.2
Line 600N 1925E	80	2	0.6	<10	15.2	8080	0.5	5.8
Line 600N 1950E	80	1	1.4	<10	20.8	5470	0.5	4.6
Line 600N 1975E	150	3	1.2	<10	39.8	15200	1.1	7.6
Line 600N 2000E	80	3	0.9	<10	18.4	12300	1.1	4.8
Line 600N 2025E	290	1	1.6	<10	23.6	4380	0.5	6.7
Line 600N 2050E	260	1	2.0	<10	27.0	4580	0.6	7.1
Line 600N 2075E	170	<1	3.3	<10	35.3	2330	0.5	8.8
Line 600N 2100E	180	<1	3.2	<10	33.2	2270	0.5	8.0
Line 600N 2100EB	310	<1	2.7	<10	30.8	2590	0.5	7.2
Line 600N 2125E	250	1	2.9	<10	26.4	4410	0.7	9.2
Line 600N 2150E	230	2	2.2	<10	27.3	5200	0.7	8.7
Line 600N 2175E	480	<1	0.8	<10	16.1	2960	0.3	3.8
Line 600N 2200E	210	<1	3.3	<10	26.3	3230	0.5	10.8
*Rep Line 600N 1675E	480	<1	<0.1	<10	<0.5	<10	<0.1	0.8
*Rep Line 600N 1775E	320	<1	<0.1	<10	<0.5	<10	<0.1	0.6
*Std MMISRM24	1810	<1	0.4	<10	13.6	40	0.1	9.3
*Blk BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5

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Element Method Det.Lim. Units	W GE_MMI_M 0.5 ppb	Y GE_MMI_M 1 ppb	Yb GE_MMI_M 0.2 ppb	Zn GE_MMI_M 10 ppb	Zr GE_MMI_M 2 ppb
Line 600N 1550E	<0.5	6	0.8	620	<2
Line 600N 1575E	<0.5	3	0.4	1250	<2
Line 600N 1600E	<0.5	85	8.7	240	69
Line 600N 1625E	<0.5	2	0.3	1850	<2
Line 600N 1650E	<0.5	2	<0.2	2120	<2
Line 600N 1675E	<0.5	4	0.4	1380	<2
Line 600N 1700E	<0.5	42	4.4	730	8
Line 600N 1725E	<0.5	2	<0.2	940	<2
Line 600N 1750E	<0.5	2	<0.2	610	<2
Line 600N 1775E	<0.5	3	0.2	740	<2
Line 600N 1800E	<0.5	2	0.2	890	<2
Line 600N 1825E	<0.5	<1	<0.2	1190	<2
Line 600N 1850E	<0.5	2	<0.2	730	<2
Line 600N 1875E	<0.5	2	<0.2	770	<2
Line 600N 1900E	<0.5	4	0.2	520	<2
Line 600N 1925E	2.2	17	1.5	260	85
Line 600N 1950E	1.5	36	3.6	970	84
Line 600N 1975E	4.9	36	4.2	1360	196
Line 600N 2000E	3.3	24	2.6	680	144
Line 600N 2025E	1.1	45	3.5	570	65
Line 600N 2050E	1.4	52	3.6	490	73
Line 600N 2075E	1.3	73	4.8	330	76
Line 600N 2100E	1.6	67	4.3	240	71
Line 600N 2100EB	1.6	59	4.3	590	71
Line 600N 2125E	1.6	75	4.8	870	109
Line 600N 2150E	1.8	53	4.2	890	117
Line 600N 2175E	1.0	22	1.8	2350	63
Line 600N 2200E	1.8	84	5.7	520	95
*Rep Line 600N 1675E	<0.5	3	0.4	1470	<2
*Rep Line 600N 1775E	<0.5	3	<0.2	850	2
*Std MMISRM24	<0.5	18	0.6	170	23
*Blk BLANK	<0.5	<1	<0.2	<10	<2

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Certificate of Analysis
Work Order : VC183055
[Report File No.: 000031625]

Date: September 21, 2018

To: Charles Gryba
COD SGS MINERALS - GEOCHEM VANCOUVER
Central Timmins Exploration Corp.
200 Bay Street, Suite 2350
Toronto
ONT M5J 2J2

P.O. No.: Central Timmins Exploration Corp.
Project No.: -
Samples: 132
Received: Aug 21, 2018
Pages: Page 1 to 29
(Inclusive of Cover Sheet)

Methods Summary

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

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE 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

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppb	1 ppm	10 ppb	0.1 ppb	10 ppb	0.5 ppb	2 ppm	1 ppb
Line 0 0N	7.9	147	<10	<0.1	270	<0.5	255	20
Line 0 25N	4.3	144	<10	<0.1	360	<0.5	201	4
Line 0 50N	1.9	178	<10	<0.1	280	<0.5	152	3
Line 0 75N	2.2	82	<10	0.1	1050	<0.5	127	6
Line 0 100N	0.7	264	10	<0.1	200	<0.5	<2	21
Line 0 125N	1.0	188	20	<0.1	940	2.5	41	51
Line 0 150N	3.4	261	10	0.8	910	0.5	161	12
Line 0 175N	3.5	221	20	<0.1	1180	<0.5	155	14
Line 0 200N	0.7	174	20	<0.1	540	8.8	75	55
Line 0 225N	1.8	344	40	<0.1	730	3.4	23	21
Line 0 250N	2.5	59	<10	0.5	1160	<0.5	106	8
Line 0 275N	<0.5	190	<10	<0.1	240	<0.5	31	10
Line 0 300N	2.5	130	<10	<0.1	310	<0.5	267	46
Line 0 325N	2.6	142	<10	<0.1	190	<0.5	154	30
Line 0 350N	5.9	33	<10	0.2	480	<0.5	235	4
Line 0 375N	5.3	253	10	<0.1	660	<0.5	79	13
Line 0 375NB	8.0	317	20	<0.1	750	0.5	4	17
Line 0 400N	2.7	179	<10	<0.1	230	0.7	34	6
Line 0 425N	1.8	207	30	<0.1	970	3.0	81	33
Line 0 425NB	2.3	100	20	<0.1	660	3.3	11	21
Line 0 450N	1.0	197	10	<0.1	650	0.5	16	3
Line 0 475N	<0.5	382	<10	<0.1	1880	0.6	39	1
Line 0 475NB	1.1	291	50	<0.1	1170	2.9	48	14
Line 0 500N	5.6	48	<10	<0.1	290	<0.5	211	4
Line 0 525N	7.0	114	<10	<0.1	300	<0.5	113	3
Line 0 550N	<0.5	300	30	<0.1	530	<0.5	13	12
Line 0 575N	1.6	40	10	<0.1	780	<0.5	217	8
Line 0 600N	<0.5	350	10	<0.1	390	0.9	5	7
Line 0 625N	1.1	313	30	<0.1	1410	1.2	12	6
Line 0 650N	0.9	288	10	0.2	1250	1.5	27	3
Line 0 675N	<0.5	92	<10	<0.1	90	<0.5	183	6
Line 0 700N	0.7	178	<10	<0.1	450	<0.5	165	4
Line 0 725N	1.8	58	10	0.1	690	<0.5	209	5
Line 0 750N	1.0	162	<10	<0.1	970	<0.5	164	4
Line 0 775N	2.3	120	<10	<0.1	190	0.5	153	18
Line 0 800N	4.2	167	<10	<0.1	290	<0.5	112	16
Line 0 825N	<0.5	347	20	<0.1	480	0.5	11	2
Line 0 850N	<0.5	358	10	<0.1	490	0.6	18	4
Line 0 875N	0.6	101	<10	<0.1	130	0.7	137	31
Line 0 900N	0.7	131	30	<0.1	770	1.0	127	6

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppm	GE_MMI_M 10 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 2 ppm	GE_MMI_M 1 ppb
Line 0 925N	1.6	63	<10	<0.1	470	<0.5	116	8
Line 0 950N	2.9	116	<10	<0.1	220	<0.5	227	29
Line 0 975N	<0.5	245	<10	<0.1	660	<0.5	89	2
Line 0 1000N	<0.5	157	20	0.2	740	1.1	174	2
Line 100E 0N	6.8	195	<10	<0.1	340	<0.5	77	10
Line 100E 25N	8.8	188	20	0.2	470	0.9	28	12
Line 100E 50N	4.3	245	<10	<0.1	1060	0.6	49	38
Line 100E 75N	0.8	51	10	<0.1	830	3.4	129	75
Line 100E 100N	8.7	262	10	<0.1	360	1.0	17	8
Line 100E 125N	2.5	245	<10	<0.1	620	<0.5	17	41
Line 100E 150N	2.4	231	20	<0.1	670	0.5	15	57
Line 100E 175N	6.3	75	10	<0.1	540	<0.5	268	31
Line 100E 200N	3.4	103	<10	<0.1	340	<0.5	257	38
Line 100E 225N	2.6	135	30	<0.1	1200	1.3	122	34
Line 100E 250N	1.6	241	<10	<0.1	480	<0.5	6	26
Line 100E 275N	3.3	251	<10	<0.1	780	<0.5	12	56
Line 100E 300N	1.9	276	<10	<0.1	490	<0.5	4	25
Line 100E 325N	3.2	218	20	<0.1	840	1.9	51	35
Line 100E 350N	1.1	105	<10	<0.1	330	<0.5	78	5
Line 100E 350NB	9.3	126	<10	0.1	1540	<0.5	183	9
Line 100E 375N	3.7	203	10	<0.1	360	<0.5	103	28
Line 100E 400N	1.2	113	20	<0.1	870	1.5	32	29
Line 100E 400NB	<0.5	112	<10	<0.1	1000	<0.5	218	101
Line 100E 425N	1.1	183	<10	<0.1	140	1.6	69	23
Line 100E 450N	1.2	150	<10	<0.1	690	0.8	102	16
Line 100E 450NB	<0.5	94	<10	<0.1	200	1.6	156	35
Line 100E 475N	<0.5	109	<10	<0.1	300	<0.5	38	24
Line 100E 500N	1.3	178	<10	<0.1	1250	0.6	111	11
Line 100E 525N	0.6	61	<10	<0.1	750	<0.5	209	54
Line 100E 550N	0.8	195	<10	<0.1	380	0.7	29	5
Line 100E 575N	4.0	36	<10	<0.1	320	<0.5	183	28
Line 100E 600N	0.5	66	<10	<0.1	170	<0.5	316	47
Line 100E 625N	3.0	113	<10	<0.1	140	0.5	172	15
Line 100E 650N	5.4	82	<10	<0.1	320	<0.5	223	56
Line 100E 675N	<0.5	184	20	<0.1	400	3.5	16	22
Line 100E 700N	<0.5	314	<10	<0.1	230	0.6	<2	4
Line 100E 725N	<0.5	192	10	<0.1	400	1.9	7	12
Line 100E 750N	<0.5	301	<10	<0.1	210	0.8	<2	7
Line 100E 775N	0.6	324	40	<0.1	1680	4.1	22	29
Line 100E 800N	0.7	63	<10	<0.1	140	<0.5	283	18

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	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppm	GE_MMI_M 10 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 2 ppm	GE_MMI_M 1 ppb
Line 100E 825N	0.9	116	<10	<0.1	110	0.9	99	19
Line 100E 850N	2.8	79	20	<0.1	150	0.5	67	15
Line 100E 875N	3.4	78	20	<0.1	210	<0.5	135	41
Line 100E 900N	4.0	87	10	<0.1	360	<0.5	176	33
Line 100E 925N	3.4	93	<10	<0.1	190	<0.5	209	13
Line 100E 950N	4.2	12	<10	<0.1	710	<0.5	191	4
Line 100E 975N	0.9	38	<10	<0.1	350	<0.5	216	5
Line 100E 1000N	0.5	34	<10	<0.1	180	<0.5	171	4
Line 200E 0N	2.8	283	20	<0.1	1720	0.9	89	24
Line 200E 25N	2.3	289	20	<0.1	1700	1.3	77	16
Line 200E 50N	1.7	205	<10	<0.1	450	<0.5	3	7
Line 200E 75N	5.5	247	10	<0.1	680	<0.5	13	20
Line 200E 100N	13.2	234	40	<0.1	1100	1.5	75	9
Line 200E 125N	3.4	198	<10	<0.1	680	<0.5	20	7
Line 200E 150N	2.5	221	10	<0.1	430	<0.5	<2	7
Line 200E 175N	0.9	184	60	<0.1	1100	2.2	38	5
Line 200E 200N	6.6	209	50	0.1	930	2.5	24	20
Line 200E 225N	7.4	267	50	<0.1	990	3.2	54	24
Line 200E 250N	4.6	205	30	<0.1	970	2.7	20	9
Line 200E 250NB	0.9	173	10	<0.1	880	2.9	155	71
Line 200E 275N	2.1	99	20	<0.1	1050	2.5	84	20
Line 200E 300N	4.7	316	30	<0.1	1230	0.8	11	21
Line 200E 300NB	1.4	136	<10	<0.1	270	<0.5	187	39
Line 200E 325N	2.2	114	80	<0.1	750	3.7	34	6
Line 200E 350N	1.8	257	60	<0.1	1760	2.5	32	10
Line 200E 350NB	1.9	151	20	<0.1	500	<0.5	127	12
Line 200E 375N	1.9	202	90	<0.1	1150	3.8	40	9
Line 200E 400N	2.4	103	60	0.4	570	2.6	31	5
Line 200E 425N	1.6	241	30	<0.1	1030	2.2	66	18
Line 200E 450N	<0.5	126	<10	<0.1	610	2.1	47	31
Line 200E 475N	1.6	221	70	<0.1	1430	2.2	30	9
Line 200E 500N	0.8	133	20	<0.1	420	3.4	50	29
Line 200E 525N	1.4	85	<10	<0.1	290	<0.5	13	3
Line 200E 550N	0.9	229	<10	<0.1	620	0.8	31	4
Line 200E 575N	1.0	43	<10	<0.1	120	<0.5	230	35
Line 200E 600N	4.6	94	<10	<0.1	230	<0.5	346	26
Line 200E 625N	2.5	95	<10	<0.1	540	<0.5	184	54
Line 200E 650N	0.7	104	<10	<0.1	170	<0.5	219	18
Line 200E 675N	<0.5	111	30	<0.1	260	3.9	46	35
Line 200E 700N	<0.5	308	20	<0.1	510	<0.5	6	4

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppm	GE_MMI_M 10 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 2 ppm	GE_MMI_M 1 ppb
Line 200E 725N	<0.5	349	<10	<0.1	190	<0.5	<2	2
Line 200E 750N	<0.5	335	<10	<0.1	360	<0.5	<2	3
Line 200E 775N	<0.5	330	10	<0.1	260	0.6	<2	7
Line 200E 800N	0.9	139	<10	<0.1	150	<0.5	197	10
Line 200E 825N	1.3	18	<10	<0.1	950	<0.5	265	2
Line 200E 850N	1.8	75	10	<0.1	120	<0.5	144	13
Line 200E 875N	1.1	53	<10	<0.1	160	<0.5	285	22
Line 200E 900N	5.8	85	10	<0.1	560	<0.5	217	53
Line 200E 925N	0.8	78	<10	<0.1	240	<0.5	244	30
Line 200E 950N	1.6	44	<10	<0.1	440	<0.5	298	12
Line 200E 975N	0.8	22	10	0.1	310	<0.5	278	7
Line 200E 1000N	1.0	126	<10	<0.1	400	<0.5	224	15
*Rep Line 0 225N	1.4	336	40	<0.1	640	3.2	16	21
*Rep Line 0 575N	1.4	51	10	<0.1	870	<0.5	238	9
*Rep Line 0 725N	1.9	60	<10	0.2	640	<0.5	215	6
*Rep Line 100E 300N	1.8	283	<10	<0.1	560	<0.5	6	23
*Rep Line 100E 450N	1.2	135	10	<0.1	610	0.5	94	13
*Rep Line 100E 800N	0.9	62	<10	<0.1	160	<0.5	297	20
*Rep Line 200E 275N	2.4	93	20	<0.1	1020	2.3	79	18
*Rep Line 200E 700N	<0.5	293	10	<0.1	510	<0.5	5	3
*Rep Line 200E 950N	1.2	50	10	<0.1	340	<0.5	324	9
*Std MMISRM24	22.1	30	<10	3.2	150	<0.5	58	6
*Std MMISRM19	26.1	20	<10	5.8	1420	<0.5	676	35
*Std AMIS0169	8.3	47	<10	0.5	1180	<0.5	29	1
*Bik BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1
*Bik BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1
*Bik BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1
*Bik BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1
*Bik BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1

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Element Method Det.Lim. Units	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	2	1	100	0.2	10	0.5	0.2	0.2
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Line 0 0N	462	18	<100	1.9	670	50.7	27.3	17.7
Line 0 25N	255	42	<100	1.0	890	20.7	9.9	7.2
Line 0 50N	284	27	<100	1.9	680	17.7	7.9	7.4
Line 0 75N	544	96	<100	1.7	280	39.4	17.3	16.5
Line 0 100N	50	61	<100	2.0	1000	12.2	8.4	2.3
Line 0 125N	40	99	<100	1.5	160	4.1	2.1	1.4
Line 0 150N	385	77	300	3.0	670	18.5	8.7	7.2
Line 0 175N	451	180	200	2.8	510	18.3	8.3	7.1
Line 0 200N	60	113	<100	0.4	390	9.8	5.7	2.4
Line 0 225N	212	114	200	3.8	870	20.3	10.8	6.4
Line 0 250N	268	115	<100	1.3	280	19.4	7.9	8.9
Line 0 275N	35	281	<100	0.6	300	38.1	32.0	3.1
Line 0 300N	93	19	<100	1.4	60	16.0	9.5	3.8
Line 0 325N	241	23	<100	0.5	630	72.9	45.1	11.2
Line 0 350N	10	61	<100	0.6	620	0.9	0.5	0.6
Line 0 375N	67	49	200	3.0	140	6.5	3.5	2.6
Line 0 375NB	178	66	100	8.2	310	17.8	8.6	5.6
Line 0 400N	659	73	<100	0.6	250	148	81.5	38.8
Line 0 425N	117	54	200	2.7	230	8.2	4.4	3.5
Line 0 425NB	39	11	100	1.6	210	2.9	1.7	0.8
Line 0 450N	150	14	200	1.9	<10	9.6	3.8	4.6
Line 0 475N	472	28	300	4.1	<10	21.5	10.2	10.1
Line 0 475NB	238	77	300	4.4	240	15.0	7.3	5.4
Line 0 500N	948	28	<100	0.6	540	33.7	16.2	15.0
Line 0 525N	50	44	<100	0.7	1590	14.8	12.7	1.4
Line 0 550N	57	18	100	0.8	30	5.4	2.7	1.9
Line 0 575N	671	37	<100	1.9	130	12.8	6.6	6.8
Line 0 600N	116	8	300	1.6	<10	10.5	4.7	3.7
Line 0 625N	352	26	500	5.0	40	18.9	8.9	8.0
Line 0 650N	622	27	200	3.9	50	29.6	14.5	10.5
Line 0 675N	123	15	<100	0.2	<10	10.8	5.7	3.4
Line 0 700N	279	26	200	2.3	20	17.9	8.0	7.0
Line 0 725N	523	23	<100	1.9	160	19.3	9.1	8.2
Line 0 750N	291	44	200	3.5	110	20.0	9.3	7.0
Line 0 775N	155	87	<100	0.4	240	37.1	22.1	7.5
Line 0 800N	817	51	<100	2.6	820	63.6	27.0	18.0
Line 0 825N	140	20	300	2.0	60	14.6	6.8	5.1
Line 0 850N	138	28	300	3.0	50	11.8	5.7	4.4
Line 0 875N	135	42	<100	0.9	100	12.4	5.5	4.3
Line 0 900N	294	46	200	3.6	130	10.4	4.5	4.8

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	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	2	1	100	0.2	10	0.5	0.2	0.2
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Line 0 925N	198	28	100	1.5	130	6.7	2.9	3.0
Line 0 950N	208	82	<100	0.6	260	14.8	7.7	4.5
Line 0 975N	294	48	200	3.3	30	13.5	6.4	6.0
Line 0 1000N	171	15	300	5.1	110	8.5	4.1	3.7
Line 100E 0N	99	32	<100	5.2	220	8.7	4.2	2.5
Line 100E 25N	68	55	<100	5.9	1270	11.4	6.2	2.6
Line 100E 50N	43	23	100	5.7	280	5.5	2.9	1.5
Line 100E 75N	40	35	<100	3.0	160	3.1	1.5	1.0
Line 100E 100N	605	22	300	6.0	660	36.3	18.4	14.5
Line 100E 125N	29	38	<100	2.3	480	7.2	4.0	1.5
Line 100E 150N	17	81	<100	1.0	260	7.4	6.2	1.2
Line 100E 175N	68	70	<100	1.6	2670	9.6	5.9	3.2
Line 100E 200N	55	32	<100	1.3	600	21.9	12.8	3.8
Line 100E 225N	70	56	100	1.6	230	6.9	3.9	2.2
Line 100E 250N	20	89	<100	2.2	470	11.5	8.8	1.4
Line 100E 275N	34	90	<100	1.0	370	8.8	5.3	1.5
Line 100E 300N	55	61	<100	3.9	500	18.6	10.7	3.1
Line 100E 325N	60	48	<100	1.6	230	7.7	4.6	2.1
Line 100E 350N	34	28	<100	1.9	3330	8.7	5.5	1.8
Line 100E 350NB	282	43	<100	3.7	2040	24.0	12.9	8.4
Line 100E 375N	49	27	<100	0.9	420	11.4	5.5	2.4
Line 100E 400N	26	69	<100	1.3	1100	5.8	3.7	1.2
Line 100E 400NB	53	68	<100	0.9	130	7.4	6.0	1.7
Line 100E 425N	40	42	<100	0.5	150	8.5	5.1	2.5
Line 100E 450N	234	34	200	3.3	240	11.5	4.7	5.1
Line 100E 450NB	39	55	<100	0.4	30	8.1	5.4	1.7
Line 100E 475N	10	74	<100	0.4	50	3.0	3.5	0.3
Line 100E 500N	504	50	300	1.9	290	23.5	9.7	9.4
Line 100E 525N	40	27	<100	0.5	190	3.5	2.0	1.2
Line 100E 550N	324	61	<100	2.6	390	15.6	7.0	6.1
Line 100E 575N	137	49	<100	0.3	790	24.4	17.3	4.6
Line 100E 600N	26	7	<100	0.3	50	5.0	3.4	1.1
Line 100E 625N	40	22	<100	<0.2	410	33.5	28.7	2.6
Line 100E 650N	153	95	<100	0.9	560	11.6	7.4	3.6
Line 100E 675N	57	51	200	3.0	70	6.1	3.4	1.9
Line 100E 700N	59	11	200	2.2	<10	8.0	5.0	2.4
Line 100E 725N	55	13	200	4.2	40	5.4	2.7	1.9
Line 100E 750N	63	16	100	1.4	<10	12.2	6.0	3.7
Line 100E 775N	108	12	500	8.0	220	8.0	4.0	3.3
Line 100E 800N	71	18	<100	0.4	10	8.4	5.0	2.2

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Element Method Det.Lim. Units	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
	GE_MMI_M 2 ppb	GE_MMI_M 1 ppb	GE_MMI_M 100 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 0.2 ppb
Line 100E 825N	111	52	<100	0.5	20	19.8	9.7	5.4
Line 100E 850N	68	44	<100	0.7	210	13.8	8.6	1.8
Line 100E 875N	115	68	<100	0.7	370	16.5	10.3	3.2
Line 100E 900N	209	74	<100	1.2	570	17.2	9.8	5.2
Line 100E 925N	254	26	<100	0.9	390	15.9	8.8	5.0
Line 100E 950N	114	51	<100	1.0	200	5.0	2.2	2.3
Line 100E 975N	47	12	<100	0.9	150	2.8	1.3	1.1
Line 100E 1000N	27	6	<100	0.8	80	2.2	1.1	0.8
Line 200E 0N	89	85	200	3.9	260	7.9	3.8	2.9
Line 200E 25N	97	65	200	3.8	280	8.1	4.2	2.9
Line 200E 50N	70	17	<100	6.5	80	9.9	5.2	2.9
Line 200E 75N	47	30	<100	6.1	120	7.0	3.8	2.4
Line 200E 100N	205	32	100	3.3	260	11.4	5.1	4.7
Line 200E 125N	120	16	<100	6.1	60	10.3	5.1	4.6
Line 200E 150N	67	23	<100	5.6	100	7.3	4.4	2.4
Line 200E 175N	63	15	200	3.0	130	4.4	2.5	1.6
Line 200E 200N	71	27	200	3.2	290	5.0	2.5	1.8
Line 200E 225N	92	47	200	3.2	270	6.8	3.0	2.7
Line 200E 250N	51	11	200	3.8	210	3.8	2.1	1.4
Line 200E 250NB	321	89	<100	1.2	390	35.2	19.7	10.9
Line 200E 275N	36	15	<100	0.6	310	3.0	1.5	1.0
Line 200E 300N	92	44	<100	2.9	230	8.7	4.0	3.5
Line 200E 300NB	187	24	<100	0.8	560	75.7	50.9	10.2
Line 200E 325N	60	20	300	3.4	190	3.5	2.3	1.2
Line 200E 350N	72	15	200	4.7	240	4.9	2.4	1.9
Line 200E 350NB	682	29	<100	0.8	440	71.5	38.5	21.5
Line 200E 375N	127	30	500	5.1	210	6.9	3.9	2.6
Line 200E 400N	38	13	200	3.2	150	2.7	1.5	0.9
Line 200E 425N	203	41	500	2.0	140	15.2	6.5	5.4
Line 200E 450N	14	71	<100	2.1	30	3.6	2.7	0.6
Line 200E 475N	133	47	500	1.7	240	9.0	3.7	3.4
Line 200E 500N	55	54	<100	1.4	160	7.1	4.1	2.1
Line 200E 525N	74	59	<100	1.0	270	6.0	4.6	1.3
Line 200E 550N	476	103	100	2.6	220	20.6	10.4	7.8
Line 200E 575N	30	24	<100	<0.2	100	8.6	5.7	1.3
Line 200E 600N	194	3	<100	0.6	70	12.1	7.7	3.2
Line 200E 625N	126	26	<100	0.5	470	26.6	18.1	4.5
Line 200E 650N	33	61	<100	<0.2	220	21.6	18.4	2.4
Line 200E 675N	25	63	<100	0.9	30	2.9	1.7	0.8
Line 200E 700N	47	30	<100	0.9	10	7.0	3.7	2.3

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Element Method Det.Lim. Units	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
	GE_MMI_M 2 ppb	GE_MMI_M 1 ppb	GE_MMI_M 100 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 0.2 ppb
Line 200E 725N	55	11	<100	1.4	<10	7.4	4.3	2.2
Line 200E 750N	87	19	<100	2.9	<10	11.6	5.6	3.9
Line 200E 775N	34	9	<100	1.0	<10	6.9	3.9	2.1
Line 200E 800N	169	31	<100	0.9	40	16.5	8.0	5.5
Line 200E 825N	164	14	<100	1.2	60	7.0	3.6	3.5
Line 200E 850N	42	22	<100	0.3	180	7.1	4.7	0.9
Line 200E 875N	43	17	<100	<0.2	60	6.3	4.4	1.3
Line 200E 900N	214	121	<100	1.2	1030	22.7	14.0	6.0
Line 200E 925N	44	16	<100	0.3	110	12.4	8.3	2.2
Line 200E 950N	50	27	<100	0.5	190	2.6	1.7	1.0
Line 200E 975N	11	25	<100	0.6	180	0.8	0.3	0.2
Line 200E 1000N	91	36	<100	1.1	140	16.6	9.0	3.7
*Rep Line 0 225N	173	121	200	3.6	870	19.2	10.9	5.3
*Rep Line 0 575N	819	46	<100	1.9	120	15.5	8.0	7.6
*Rep Line 0 725N	520	20	<100	1.7	150	20.4	9.6	8.1
*Rep Line 100E 300N	58	61	<100	3.5	520	18.6	9.9	3.2
*Rep Line 100E 450N	227	35	200	3.0	250	10.0	4.0	4.5
*Rep Line 100E 800N	84	18	<100	0.4	10	8.0	4.6	2.4
*Rep Line 200E 275N	34	13	<100	0.6	280	3.0	1.4	1.1
*Rep Line 200E 700N	55	27	<100	1.0	<10	7.8	4.1	2.7
*Rep Line 200E 950N	40	18	<100	0.6	170	3.3	1.8	0.9
*Std MMISRM24	29	15	<100	10.3	280	2.4	0.9	0.9
*Std MMISRM19	17	296	<100	4.1	2130	10.8	5.7	2.2
*Std AMIS0169	575	68	<100	7.3	3400	20.2	8.5	8.0
*Bik BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2
*Bik BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2
*Bik BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2
*Bik BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2
*Bik BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	1 ppm	0.5 ppb	0.5 ppb	1 ppb	0.1 ppb	0.5 ppm	1 ppb	1 ppb
Line 0 0N	21	2.8	70.2	<1	<0.1	6.9	265	3
Line 0 25N	26	8.3	27.0	<1	<0.1	10.0	91	5
Line 0 50N	30	10.1	25.1	<1	<0.1	3.7	128	3
Line 0 75N	28	4.8	63.6	<1	<0.1	10.7	329	3
Line 0 100N	119	16.8	9.3	<1	0.2	5.4	21	3
Line 0 125N	45	31.3	4.3	<1	0.3	12.1	17	2
Line 0 150N	74	23.5	23.0	<1	0.2	9.8	124	7
Line 0 175N	62	13.5	24.1	<1	0.2	14.6	151	5
Line 0 200N	113	25.1	9.1	1	1.0	20.3	23	2
Line 0 225N	177	53.5	25.0	1	0.6	9.5	84	14
Line 0 250N	18	3.8	32.1	<1	<0.1	14.2	141	1
Line 0 275N	75	12.7	15.4	<1	0.2	9.8	13	1
Line 0 300N	26	3.7	16.8	<1	<0.1	8.7	38	3
Line 0 325N	19	2.7	50.0	<1	<0.1	2.9	98	<1
Line 0 350N	6	1.6	1.7	<1	<0.1	18.9	6	<1
Line 0 375N	60	26.9	7.8	1	0.2	16.4	36	4
Line 0 375NB	88	26.2	19.7	2	0.2	9.6	77	7
Line 0 400N	193	16.9	156	<1	0.2	19.1	391	4
Line 0 425N	89	58.4	11.5	<1	0.6	15.7	82	6
Line 0 425NB	29	13.3	2.9	<1	0.5	17.1	23	4
Line 0 450N	132	53.2	11.4	<1	0.2	6.5	80	4
Line 0 475N	75	28.9	29.3	<1	0.3	3.5	240	19
Line 0 475NB	176	57.1	18.4	2	0.6	12.7	113	26
Line 0 500N	59	3.6	54.1	<1	<0.1	4.0	406	2
Line 0 525N	253	2.2	6.0	<1	0.1	16.7	19	2
Line 0 550N	80	50.5	4.9	<1	0.2	3.9	30	1
Line 0 575N	120	3.6	22.2	<1	<0.1	5.4	364	1
Line 0 600N	25	69.7	11.0	<1	0.3	3.8	59	7
Line 0 625N	103	72.8	26.4	<1	0.4	6.9	172	25
Line 0 650N	136	18.4	37.2	<1	0.3	3.2	295	5
Line 0 675N	57	12.4	12.0	<1	<0.1	5.3	48	2
Line 0 700N	40	17.8	24.2	<1	0.2	5.0	116	7
Line 0 725N	99	5.7	29.5	<1	<0.1	2.9	224	4
Line 0 750N	83	14.1	27.2	<1	0.2	6.0	120	16
Line 0 775N	111	9.2	31.7	<1	0.2	7.7	54	4
Line 0 800N	16	2.2	67.3	<1	<0.1	3.8	296	<1
Line 0 825N	97	31.8	16.5	<1	0.3	3.8	62	4
Line 0 850N	65	51.9	13.1	<1	0.3	5.2	64	10
Line 0 875N	65	16.1	14.5	<1	0.1	3.2	51	3
Line 0 900N	236	7.3	15.9	<1	0.2	5.1	135	9

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_M 1 ppm	GE_MMI_M 0.5 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 0 925N	37	5.5	10.4	<1	<0.1	3.3	82	5
Line 0 950N	91	2.9	17.4	<1	<0.1	2.5	80	3
Line 0 975N	260	22.3	18.8	<1	0.2	2.3	136	8
Line 0 1000N	85	75.3	11.8	<1	<0.1	6.8	84	34
Line 100E 0N	76	7.4	9.6	<1	0.1	5.4	31	2
Line 100E 25N	364	13.9	9.8	<1	0.2	9.2	32	7
Line 100E 50N	186	17.3	4.9	2	0.3	23.0	20	7
Line 100E 75N	77	28.0	3.3	<1	0.4	24.7	17	6
Line 100E 100N	189	43.9	50.3	<1	0.2	5.0	228	5
Line 100E 125N	167	23.9	4.8	1	0.4	12.9	15	3
Line 100E 150N	199	39.3	4.4	<1	0.4	14.4	8	4
Line 100E 175N	101	10.8	13.6	<1	<0.1	11.1	32	9
Line 100E 200N	33	2.7	17.6	<1	<0.1	7.3	24	<1
Line 100E 225N	190	44.3	7.9	<1	0.4	20.8	31	8
Line 100E 250N	153	26.8	5.6	<1	0.3	10.7	9	1
Line 100E 275N	166	33.4	5.9	1	0.4	24.9	17	4
Line 100E 300N	109	30.8	11.9	1	0.3	14.8	23	3
Line 100E 325N	188	51.7	7.4	<1	0.4	15.3	26	8
Line 100E 350N	209	3.5	7.4	<1	0.1	13.6	16	<1
Line 100E 350NB	46	11.0	33.2	<1	<0.1	4.2	111	12
Line 100E 375N	153	22.0	9.9	1	0.2	17.2	23	3
Line 100E 400N	319	21.0	4.5	<1	0.5	24.8	12	3
Line 100E 400NB	161	6.8	6.7	<1	0.4	9.4	17	5
Line 100E 425N	107	30.1	7.7	<1	0.2	3.3	15	4
Line 100E 450N	214	11.7	15.8	<1	0.2	6.6	100	6
Line 100E 450NB	135	5.8	6.9	<1	0.3	7.2	17	1
Line 100E 475N	211	2.8	1.2	<1	<0.1	2.5	5	<1
Line 100E 500N	187	20.7	32.0	<1	0.2	7.0	202	8
Line 100E 525N	102	3.9	4.1	<1	0.2	4.2	17	2
Line 100E 550N	288	4.8	20.2	<1	0.1	16.4	159	3
Line 100E 575N	273	<0.5	20.9	<1	<0.1	4.9	77	1
Line 100E 600N	19	0.6	5.0	<1	<0.1	5.0	14	<1
Line 100E 625N	148	6.0	13.6	<1	<0.1	3.4	17	<1
Line 100E 650N	132	1.6	14.2	<1	<0.1	8.2	53	2
Line 100E 675N	178	47.1	6.2	1	0.6	11.6	27	13
Line 100E 700N	35	71.8	7.5	<1	0.3	2.5	30	4
Line 100E 725N	26	53.6	5.3	<1	0.3	5.6	28	7
Line 100E 750N	11	72.8	10.2	<1	0.4	2.5	26	2
Line 100E 775N	24	157	8.5	2	0.7	10.1	61	16
Line 100E 800N	91	2.2	9.9	<1	<0.1	1.7	27	<1

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_M 1 ppm	GE_MMI_M 0.5 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 100E 825N	146	12.1	22.1	<1	0.2	2.5	41	4
Line 100E 850N	346	4.0	8.1	<1	0.1	<0.5	27	2
Line 100E 875N	307	0.9	14.2	<1	<0.1	1.3	43	1
Line 100E 900N	207	3.6	21.1	<1	<0.1	1.4	91	5
Line 100E 925N	89	3.6	19.8	<1	<0.1	1.4	106	4
Line 100E 950N	15	1.7	8.4	<1	<0.1	4.7	37	2
Line 100E 975N	44	7.3	4.0	<1	<0.1	8.4	22	6
Line 100E 1000N	23	8.7	2.8	<1	<0.1	8.3	13	6
Line 200E 0N	117	45.2	8.3	1	0.3	14.4	46	13
Line 200E 25N	165	87.9	8.7	1	0.3	15.5	53	17
Line 200E 50N	44	5.2	9.3	<1	0.2	5.1	30	1
Line 200E 75N	74	38.9	6.6	<1	0.2	11.4	23	3
Line 200E 100N	87	49.0	14.8	2	0.3	12.2	98	14
Line 200E 125N	39	19.0	12.7	<1	0.1	7.4	55	2
Line 200E 150N	79	14.6	6.7	<1	0.2	6.9	32	1
Line 200E 175N	109	88.6	4.9	1	0.3	13.9	38	15
Line 200E 200N	116	71.1	5.3	1	0.5	17.0	40	19
Line 200E 225N	208	103	7.8	1	0.7	20.8	52	16
Line 200E 250N	78	70.1	4.2	<1	0.4	20.4	32	19
Line 200E 250NB	80	25.0	42.6	<1	0.5	11.0	131	3
Line 200E 275N	33	14.0	3.4	2	0.5	24.6	23	2
Line 200E 300N	89	61.6	9.5	1	0.3	13.9	59	4
Line 200E 300NB	35	1.8	46.8	<1	<0.1	3.2	73	<1
Line 200E 325N	181	156	4.0	<1	0.2	11.8	22	20
Line 200E 350N	137	112	5.3	<1	0.5	18.9	50	25
Line 200E 350NB	243	5.3	83.6	<1	0.2	27.0	510	1
Line 200E 375N	311	226	7.9	1	0.5	14.8	61	37
Line 200E 400N	115	93.7	3.0	<1	0.2	12.3	16	17
Line 200E 425N	114	56.6	18.9	1	0.6	11.1	98	15
Line 200E 450N	75	21.2	2.5	<1	0.4	35.1	7	5
Line 200E 475N	386	64.2	10.7	1	0.4	13.4	76	12
Line 200E 500N	148	24.1	7.4	<1	0.5	14.6	24	7
Line 200E 525N	338	3.2	4.8	<1	<0.1	7.4	39	2
Line 200E 550N	426	5.0	25.5	<1	0.1	13.0	247	2
Line 200E 575N	201	1.0	6.0	<1	<0.1	1.9	16	<1
Line 200E 600N	13	1.1	13.9	<1	<0.1	6.9	41	1
Line 200E 625N	141	1.5	19.5	<1	<0.1	5.3	51	<1
Line 200E 650N	93	6.7	12.2	<1	<0.1	4.2	13	<1
Line 200E 675N	163	22.0	2.7	<1	0.5	7.8	11	4
Line 200E 700N	76	71.8	6.4	<1	0.3	3.4	23	3

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_M 1 ppm	GE_MMI_M 0.5 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 200E 725N	35	68.4	6.6	<1	0.2	2.7	27	2
Line 200E 750N	28	46.5	11.6	<1	0.2	1.3	37	2
Line 200E 775N	9	93.4	6.1	<1	0.3	2.0	15	2
Line 200E 800N	68	8.7	20.0	<1	<0.1	0.6	63	2
Line 200E 825N	29	1.8	12.3	<1	<0.1	3.3	80	3
Line 200E 850N	258	1.6	3.9	<1	<0.1	<0.5	19	<1
Line 200E 875N	130	1.2	5.9	<1	<0.1	0.8	16	1
Line 200E 900N	191	3.1	24.8	<1	<0.1	2.0	105	6
Line 200E 925N	136	2.9	10.6	<1	<0.1	2.4	19	2
Line 200E 950N	68	1.2	3.8	<1	<0.1	4.9	22	4
Line 200E 975N	42	4.8	0.9	<1	<0.1	9.6	5	6
Line 200E 1000N	160	12.7	16.6	<1	0.1	10.9	37	7
*Rep Line 0 225N	162	46.3	20.1	1	0.6	10.1	70	11
*Rep Line 0 575N	121	5.3	27.8	<1	<0.1	5.4	460	2
*Rep Line 0 725N	96	5.5	29.6	<1	<0.1	3.3	228	3
*Rep Line 100E 300N	108	31.9	12.4	1	0.3	15.3	26	3
*Rep Line 100E 450N	182	10.6	14.1	<1	0.1	5.9	94	9
*Rep Line 100E 800N	81	2.7	9.1	<1	<0.1	2.0	32	1
*Rep Line 200E 275N	31	12.8	3.3	2	0.5	23.1	23	2
*Rep Line 200E 700N	60	60.2	7.4	<1	0.3	2.7	25	2
*Rep Line 200E 950N	78	1.9	3.6	<1	<0.1	4.7	17	4
*Std MMISRM24	7	1.6	3.3	4	<0.1	13.0	12	<1
*Std MMISRM19	10	<0.5	12.1	1	<0.1	93.0	4	1
*Std AMIS0169	29	8.5	31.7	<1	<0.1	43.3	345	<1
*Bik BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1
*Bik BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1
*Bik BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1
*Bik BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1
*Bik BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppm	100 ppb	2 ppb	0.5 ppb	1 ppb	5 ppb	0.1 ppm	5 ppb
Line 0 0N	8.9	2700	<2	1.3	346	230	0.8	124
Line 0 25N	6.8	500	3	5.4	131	259	1.3	155
Line 0 50N	2.1	200	<2	3.3	131	110	1.1	182
Line 0 75N	10.7	5100	2	6.3	384	83	1.6	55
Line 0 100N	1.7	200	3	4.0	32	104	1.5	289
Line 0 125N	5.1	4800	3	6.7	22	107	4.3	382
Line 0 150N	7.6	2800	4	14.3	142	272	4.0	185
Line 0 175N	8.3	6600	3	7.3	152	221	2.8	203
Line 0 200N	11.4	12700	3	5.0	35	144	4.4	2050
Line 0 225N	4.1	500	5	14.7	108	247	5.3	781
Line 0 250N	12.9	5400	3	3.4	194	36	1.2	37
Line 0 275N	8.4	<100	<2	1.3	32	100	0.8	455
Line 0 300N	16.8	2800	<2	0.9	58	222	0.5	263
Line 0 325N	12.5	1200	<2	<0.5	184	204	0.3	272
Line 0 350N	10.5	2300	2	<0.5	9	58	0.3	13
Line 0 375N	4.9	4800	2	6.7	36	41	2.9	193
Line 0 375NB	1.9	2600	4	8.8	89	131	3.4	432
Line 0 400N	6.8	3300	<2	2.7	727	151	1.6	324
Line 0 425N	6.9	3000	4	14.0	74	87	8.7	677
Line 0 425NB	2.6	300	5	7.2	18	30	6.2	586
Line 0 450N	1.4	400	4	10.1	65	5	2.1	125
Line 0 475N	3.8	100	2	12.4	206	114	4.4	55
Line 0 475NB	9.0	2700	6	35.4	105	115	6.0	725
Line 0 500N	16.5	400	<2	1.4	433	57	0.4	58
Line 0 525N	19.4	<100	<2	1.5	25	184	0.8	164
Line 0 550N	1.1	200	<2	9.9	26	50	6.6	136
Line 0 575N	12.2	400	<2	2.0	244	75	0.5	61
Line 0 600N	1.9	100	3	22.5	58	15	8.8	227
Line 0 625N	5.2	300	4	26.7	161	96	7.3	198
Line 0 650N	3.5	200	<2	22.7	252	59	4.1	185
Line 0 675N	19.9	100	<2	2.7	62	41	0.5	116
Line 0 700N	7.4	200	<2	11.0	139	88	3.3	46
Line 0 725N	18.9	500	<2	5.8	229	51	0.4	95
Line 0 750N	11.5	200	2	11.8	154	180	2.6	121
Line 0 775N	18.7	4100	2	1.4	103	118	1.7	375
Line 0 800N	4.9	1800	<2	<0.5	343	285	<0.1	214
Line 0 825N	2.5	600	<2	11.7	75	125	3.7	60
Line 0 850N	2.4	300	<2	16.5	73	124	2.6	131
Line 0 875N	8.7	400	3	5.5	81	131	1.1	322
Line 0 900N	6.4	1600	3	5.6	125	178	3.3	265

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppm	100 ppb	2 ppb	0.5 ppb	1 ppb	5 ppb	0.1 ppm	5 ppb
Line 0 925N	7.7	1000	3	5.4	80	85	2.9	88
Line 0 950N	22.4	7100	3	1.1	100	381	0.6	157
Line 0 975N	7.4	600	3	10.7	126	149	2.5	65
Line 0 1000N	32.6	400	5	34.0	74	123	2.5	107
Line 100E 0N	1.0	400	3	2.6	38	124	1.1	163
Line 100E 25N	2.4	400	5	6.3	37	108	2.0	154
Line 100E 50N	5.5	2200	3	6.4	19	157	2.7	421
Line 100E 75N	18.6	5000	4	10.2	19	94	2.8	1250
Line 100E 100N	1.1	400	6	15.5	269	91	2.1	168
Line 100E 125N	3.5	700	2	4.6	17	71	4.2	488
Line 100E 150N	4.7	500	2	7.2	10	67	5.9	398
Line 100E 175N	5.8	4900	9	4.1	62	276	0.6	97
Line 100E 200N	4.3	400	<2	<0.5	43	161	0.4	469
Line 100E 225N	11.4	4300	5	16.2	38	107	3.3	490
Line 100E 250N	2.6	300	2	3.6	15	49	2.7	366
Line 100E 275N	3.5	2400	3	6.3	19	87	4.9	336
Line 100E 300N	1.9	1600	3	4.8	36	36	4.9	307
Line 100E 325N	7.3	1800	4	14.1	30	86	3.3	717
Line 100E 350N	4.5	<100	2	0.7	24	133	0.9	105
Line 100E 350NB	3.8	4800	7	5.0	155	173	2.1	81
Line 100E 375N	4.6	3100	3	3.9	29	85	3.6	240
Line 100E 400N	6.8	2700	3	4.4	15	79	3.1	282
Line 100E 400NB	23.4	4100	<2	1.1	25	84	0.6	657
Line 100E 425N	3.5	800	3	8.3	29	64	3.0	500
Line 100E 450N	3.7	1800	3	9.0	108	120	2.7	143
Line 100E 450NB	28.8	400	<2	1.2	25	31	0.7	1040
Line 100E 475N	7.0	200	<2	<0.5	5	20	0.7	253
Line 100E 500N	6.3	1600	3	16.1	209	160	4.9	70
Line 100E 525N	10.1	2100	<2	1.1	23	101	0.7	520
Line 100E 550N	1.4	1900	<2	3.9	146	157	1.6	85
Line 100E 575N	6.9	2300	<2	<0.5	97	189	0.2	25
Line 100E 600N	26.1	2900	<2	<0.5	19	124	0.3	220
Line 100E 625N	24.7	1100	<2	<0.5	32	120	0.8	208
Line 100E 650N	12.6	2000	4	1.2	75	203	0.7	103
Line 100E 675N	6.8	600	3	18.9	30	62	5.7	636
Line 100E 700N	1.1	<100	<2	18.6	32	39	3.7	183
Line 100E 725N	1.7	200	3	19.7	27	24	6.3	410
Line 100E 750N	0.8	400	<2	10.7	39	28	2.1	258
Line 100E 775N	4.3	1000	6	50.7	46	60	10.6	775
Line 100E 800N	29.9	800	<2	0.6	41	104	0.2	220

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppm	100 ppb	2 ppb	0.5 ppb	1 ppb	5 ppb	0.1 ppm	5 ppb
Line 100E 825N	6.2	600	3	3.1	77	117	1.1	427
Line 100E 850N	10.1	700	<2	2.2	34	83	0.8	226
Line 100E 875N	12.6	3900	2	0.8	56	97	0.7	59
Line 100E 900N	10.1	6900	11	2.8	122	85	0.8	135
Line 100E 925N	10.8	1000	6	2.9	128	108	0.8	138
Line 100E 950N	19.0	8700	3	1.4	55	102	0.3	17
Line 100E 975N	22.2	700	5	3.8	26	79	0.9	75
Line 100E 1000N	21.9	400	2	3.9	15	60	2.9	40
Line 200E 0N	4.8	4700	3	14.7	44	102	3.2	360
Line 200E 25N	5.1	2500	5	26.9	49	94	5.7	246
Line 200E 50N	<0.5	100	2	0.8	45	78	0.7	239
Line 200E 75N	1.6	400	2	6.6	29	111	1.1	444
Line 200E 100N	5.6	500	6	15.9	82	147	4.5	389
Line 200E 125N	0.7	300	3	3.7	65	60	0.8	338
Line 200E 150N	0.8	<100	<2	2.3	37	95	1.0	224
Line 200E 175N	6.4	400	8	33.1	27	101	3.9	302
Line 200E 200N	7.5	3100	5	28.6	30	53	10.9	671
Line 200E 225N	6.3	6700	6	27.2	44	104	12.2	903
Line 200E 250N	7.2	1600	5	25.8	22	48	8.9	324
Line 200E 250NB	11.0	2400	3	6.6	213	138	3.9	649
Line 200E 275N	6.3	2100	3	4.8	20	86	7.5	443
Line 200E 300N	2.2	800	3	9.7	50	159	3.9	411
Line 200E 300NB	14.2	2000	<2	<0.5	153	168	0.4	408
Line 200E 325N	7.0	700	13	97.1	22	158	4.8	486
Line 200E 350N	8.6	700	6	40.0	29	94	7.6	358
Line 200E 350NB	10.5	7000	<2	2.6	514	88	1.3	266
Line 200E 375N	10.5	1000	10	86.9	53	231	5.8	554
Line 200E 400N	5.5	600	14	70.5	17	125	3.5	414
Line 200E 425N	7.4	1500	4	34.0	105	137	6.7	390
Line 200E 450N	17.7	400	2	5.6	9	101	2.5	468
Line 200E 475N	8.7	800	6	47.5	59	139	7.6	249
Line 200E 500N	6.6	1300	5	9.8	34	65	5.5	637
Line 200E 525N	4.1	<100	<2	1.4	30	63	0.7	43
Line 200E 550N	2.2	1200	<2	4.5	216	253	1.6	74
Line 200E 575N	6.3	3400	<2	<0.5	21	111	0.1	39
Line 200E 600N	20.0	1000	<2	<0.5	62	314	0.2	30
Line 200E 625N	15.2	2800	<2	0.5	71	129	0.6	86
Line 200E 650N	25.4	1600	<2	<0.5	27	70	0.5	188
Line 200E 675N	13.9	300	3	5.2	13	39	3.8	634
Line 200E 700N	1.4	200	<2	6.4	25	54	2.1	173

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_M 0.5 ppm	GE_MMI_M 100 ppb	GE_MMI_M 2 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 5 ppb	GE_MMI_M 0.1 ppm	GE_MMI_M 5 ppb
Line 200E 725N	0.5	200	<2	10.1	31	54	4.6	174
Line 200E 750N	0.6	200	<2	7.8	51	40	2.2	104
Line 200E 775N	<0.5	300	<2	8.2	22	32	3.3	415
Line 200E 800N	12.4	1700	2	2.4	104	128	0.6	174
Line 200E 825N	20.4	300	<2	0.8	95	63	0.2	15
Line 200E 850N	20.0	300	<2	0.6	18	62	0.4	87
Line 200E 875N	26.4	1900	<2	<0.5	24	52	0.3	21
Line 200E 900N	11.9	3800	6	2.1	137	164	0.9	110
Line 200E 925N	23.9	3000	3	0.8	32	94	0.5	172
Line 200E 950N	22.2	4800	3	1.3	26	125	0.4	138
Line 200E 975N	30.1	2700	5	1.9	6	66	0.9	234
Line 200E 1000N	26.6	6300	3	3.4	61	260	0.7	124
*Rep Line 0 225N	3.9	500	6	12.5	91	226	4.7	867
*Rep Line 0 575N	13.5	500	<2	2.5	287	62	0.7	92
*Rep Line 0 725N	19.8	500	<2	5.9	233	60	0.4	107
*Rep Line 100E 300N	2.2	1800	3	4.9	36	39	5.0	295
*Rep Line 100E 450N	4.4	2000	3	8.5	100	115	3.0	125
*Rep Line 100E 800N	31.4	800	<2	0.6	47	112	0.2	253
*Rep Line 200E 275N	5.8	1800	3	5.2	19	81	7.7	392
*Rep Line 200E 700N	1.1	200	<2	4.8	31	46	1.9	148
*Rep Line 200E 950N	28.4	7300	3	0.9	23	142	0.3	96
*Std MMISRM24	10.8	200	23	<0.5	18	121	0.5	165
*Std MMISRM19	197	6000	9	<0.5	17	2000	0.3	778
*Std AMIS0169	27.1	3500	3	2.3	281	362	2.1	71
*Bik BLANK	<0.5	<100	<2	<0.5	<1	<5	<0.1	<5
*Bik BLANK	<0.5	<100	<2	<0.5	<1	<5	<0.1	<5
*Bik BLANK	<0.5	<100	<2	<0.5	<1	<5	<0.1	<5
*Bik BLANK	<0.5	<100	<2	<0.5	<1	5	<0.1	<5
*Bik BLANK	<0.5	<100	<2	<0.5	<1	<5	<0.1	<5

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Element Method Det.Lim. Units	Pd GE_MMI_M 1 ppb	Pr GE_MMI_M 0.5 ppb	Pt GE_MMI_M 0.1 ppb	Rb GE_MMI_M 1 ppb	Sb GE_MMI_M 0.5 ppb	Sc GE_MMI_M 5 ppb	Sm GE_MMI_M 1 ppb	Sn GE_MMI_M 1 ppb
Line 0 0N	<1	82.1	<0.1	50	<0.5	34	74	<1
Line 0 25N	<1	30.3	<0.1	23	<0.5	32	28	<1
Line 0 50N	<1	33.7	<0.1	51	<0.5	27	28	<1
Line 0 75N	<1	94.2	<0.1	65	<0.5	36	75	<1
Line 0 100N	<1	7.0	<0.1	28	<0.5	28	8	<1
Line 0 125N	<1	5.4	<0.1	48	<0.5	16	5	2
Line 0 150N	<1	35.5	<0.1	73	<0.5	40	30	1
Line 0 175N	<1	38.9	<0.1	102	<0.5	31	30	<1
Line 0 200N	<1	8.0	<0.1	47	<0.5	25	9	2
Line 0 225N	<1	25.6	<0.1	44	0.6	55	25	3
Line 0 250N	<1	44.8	<0.1	70	<0.5	7	39	<1
Line 0 275N	<1	6.1	<0.1	36	<0.5	35	10	<1
Line 0 300N	<1	12.6	<0.1	42	<0.5	<5	15	<1
Line 0 325N	<1	40.2	<0.1	14	<0.5	<5	42	<1
Line 0 350N	<1	2.0	<0.1	14	<0.5	<5	2	<1
Line 0 375N	<1	9.2	<0.1	30	<0.5	20	8	1
Line 0 375NB	<1	21.7	<0.1	180	<0.5	35	21	1
Line 0 400N	<1	159	<0.1	32	<0.5	69	162	<1
Line 0 425N	<1	19.8	<0.1	144	<0.5	21	14	6
Line 0 425NB	<1	4.6	<0.1	120	<0.5	13	3	5
Line 0 450N	<1	17.4	<0.1	43	<0.5	30	14	2
Line 0 475N	<1	56.9	<0.1	53	<0.5	57	39	2
Line 0 475NB	<1	27.8	<0.1	73	0.5	64	22	7
Line 0 500N	<1	110	<0.1	32	<0.5	21	69	<1
Line 0 525N	<1	6.1	<0.1	29	<0.5	45	6	<1
Line 0 550N	<1	6.7	<0.1	30	<0.5	24	5	3
Line 0 575N	<1	70.0	<0.1	48	<0.5	16	32	<1
Line 0 600N	<1	14.7	<0.1	38	<0.5	55	12	5
Line 0 625N	<1	41.5	<0.1	87	<0.5	76	32	5
Line 0 650N	<1	68.7	<0.1	43	<0.5	40	46	1
Line 0 675N	<1	15.8	<0.1	4	<0.5	13	12	<1
Line 0 700N	<1	34.2	<0.1	17	<0.5	39	28	1
Line 0 725N	<1	61.3	<0.1	32	<0.5	18	38	<1
Line 0 750N	<1	37.1	<0.1	46	<0.5	52	32	<1
Line 0 775N	<1	21.1	<0.1	7	1.2	51	26	<1
Line 0 800N	<1	85.9	<0.1	43	<0.5	46	71	<1
Line 0 825N	<1	17.9	<0.1	48	<0.5	47	17	2
Line 0 850N	<1	17.7	<0.1	56	<0.5	48	16	2
Line 0 875N	<1	19.1	<0.1	35	<0.5	21	17	<1
Line 0 900N	<1	32.9	<0.1	40	<0.5	20	22	<1

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Element Method Det.Lim. Units	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 0 925N	<1	20.9	<0.1	15	<0.5	7	13	<1
Line 0 950N	<1	23.7	<0.1	21	<0.5	11	19	<1
Line 0 975N	<1	33.6	<0.1	36	<0.5	24	24	2
Line 0 1000N	<1	19.8	0.1	75	<0.5	70	14	7
Line 100E 0N	<1	9.0	<0.1	69	<0.5	21	10	<1
Line 100E 25N	<1	8.6	<0.1	83	<0.5	56	10	1
Line 100E 50N	<1	5.0	<0.1	112	<0.5	26	5	1
Line 100E 75N	<1	5.1	<0.1	185	<0.5	22	4	4
Line 100E 100N	<1	65.9	<0.1	83	<0.5	78	55	2
Line 100E 125N	<1	3.7	<0.1	71	<0.5	25	4	<1
Line 100E 150N	<1	2.4	<0.1	32	<0.5	54	3	2
Line 100E 175N	<1	12.4	<0.1	89	<0.5	23	13	<1
Line 100E 200N	<1	8.8	<0.1	45	<0.5	46	13	<1
Line 100E 225N	<1	9.5	<0.1	132	<0.5	30	8	4
Line 100E 250N	<1	3.1	<0.1	81	<0.5	39	4	<1
Line 100E 275N	<1	4.4	<0.1	48	<0.5	38	5	1
Line 100E 300N	<1	7.9	<0.1	131	<0.5	55	9	1
Line 100E 325N	<1	7.1	<0.1	54	<0.5	42	7	3
Line 100E 350N	<1	5.5	<0.1	73	<0.5	59	6	<1
Line 100E 350NB	<1	34.9	<0.1	81	<0.5	39	35	<1
Line 100E 375N	<1	6.5	<0.1	70	<0.5	34	8	<1
Line 100E 400N	<1	3.6	<0.1	90	<0.5	42	4	2
Line 100E 400NB	<1	5.8	<0.1	56	<0.5	26	6	<1
Line 100E 425N	<1	6.1	<0.1	31	<0.5	34	8	2
Line 100E 450N	<1	26.9	<0.1	45	<0.5	24	21	1
Line 100E 450NB	<1	5.7	<0.1	23	<0.5	10	6	<1
Line 100E 475N	<1	1.3	<0.1	27	<0.5	<5	<1	<1
Line 100E 500N	<1	54.1	<0.1	75	<0.5	48	40	2
Line 100E 525N	<1	5.7	<0.1	37	1.0	18	4	<1
Line 100E 550N	<1	39.9	<0.1	34	<0.5	29	26	<1
Line 100E 575N	<1	22.4	<0.1	19	<0.5	99	20	<1
Line 100E 600N	<1	4.2	<0.1	19	<0.5	<5	4	<1
Line 100E 625N	<1	6.5	<0.1	10	<0.5	11	9	<1
Line 100E 650N	<1	17.4	<0.1	33	<0.5	24	15	<1
Line 100E 675N	<1	7.3	<0.1	88	<0.5	54	7	5
Line 100E 700N	<1	7.8	<0.1	41	<0.5	45	7	2
Line 100E 725N	<1	6.7	<0.1	40	<0.5	31	6	6
Line 100E 750N	<1	9.1	<0.1	27	<0.5	38	10	1
Line 100E 775N	<1	12.5	<0.1	83	1.1	60	10	14
Line 100E 800N	<1	9.2	<0.1	5	<0.5	12	10	<1

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Element Method Det.Lim. Units	Pd GE_MMI_M 1 ppb	Pr GE_MMI_M 0.5 ppb	Pt GE_MMI_M 0.1 ppb	Rb GE_MMI_M 1 ppb	Sb GE_MMI_M 0.5 ppb	Sc GE_MMI_M 5 ppb	Sm GE_MMI_M 1 ppb	Sn GE_MMI_M 1 ppb
Line 100E 825N	<1	16.7	<0.1	4	<0.5	23	20	<1
Line 100E 850N	<1	8.2	<0.1	9	<0.5	18	7	<1
Line 100E 875N	<1	13.0	<0.1	13	<0.5	23	13	<1
Line 100E 900N	<1	29.0	<0.1	18	<0.5	32	23	<1
Line 100E 925N	<1	32.1	<0.1	9	<0.5	24	23	<1
Line 100E 950N	<1	12.6	<0.1	37	<0.5	5	10	<1
Line 100E 975N	<1	6.2	<0.1	17	0.7	13	4	<1
Line 100E 1000N	<1	3.9	<0.1	32	<0.5	14	3	<1
Line 200E 0N	<1	11.1	<0.1	136	0.7	42	9	3
Line 200E 25N	<1	12.0	<0.1	84	0.8	50	9	6
Line 200E 50N	<1	9.7	<0.1	186	<0.5	16	10	<1
Line 200E 75N	<1	6.7	<0.1	246	<0.5	17	7	1
Line 200E 100N	<1	21.3	<0.1	52	0.7	33	16	5
Line 200E 125N	<1	15.3	<0.1	258	<0.5	19	14	<1
Line 200E 150N	<1	8.6	<0.1	115	<0.5	9	8	<1
Line 200E 175N	<1	7.3	<0.1	61	1.4	35	5	14
Line 200E 200N	<1	7.9	<0.1	69	0.8	42	6	10
Line 200E 225N	<1	11.4	<0.1	181	1.1	40	8	7
Line 200E 250N	<1	6.1	<0.1	133	<0.5	48	4	11
Line 200E 250NB	<1	48.2	<0.1	56	<0.5	64	45	3
Line 200E 275N	<1	5.0	<0.1	49	<0.5	17	4	3
Line 200E 300N	<1	12.6	<0.1	200	<0.5	22	10	2
Line 200E 300NB	<1	30.8	<0.1	18	<0.5	21	36	<1
Line 200E 325N	<1	5.1	<0.1	80	1.1	42	4	20
Line 200E 350N	<1	8.3	<0.1	169	0.6	63	6	15
Line 200E 350NB	<1	128	<0.1	62	<0.5	53	93	<1
Line 200E 375N	<1	13.3	<0.1	117	1.1	71	10	15
Line 200E 400N	<1	3.7	<0.1	71	1.0	36	3	19
Line 200E 425N	<1	25.2	<0.1	32	<0.5	63	22	5
Line 200E 450N	<1	1.8	<0.1	150	<0.5	23	2	1
Line 200E 475N	<1	15.3	<0.1	41	0.8	44	12	6
Line 200E 500N	<1	7.8	<0.1	67	0.7	42	7	3
Line 200E 525N	<1	8.1	<0.1	33	<0.5	12	6	<1
Line 200E 550N	<1	56.8	<0.1	34	<0.5	31	35	<1
Line 200E 575N	<1	4.6	<0.1	5	<0.5	11	5	<1
Line 200E 600N	<1	13.4	<0.1	37	<0.5	11	13	<1
Line 200E 625N	<1	16.2	<0.1	14	<0.5	55	16	<1
Line 200E 650N	<1	5.1	<0.1	4	0.6	14	8	<1
Line 200E 675N	<1	3.2	<0.1	47	<0.5	20	3	2
Line 200E 700N	<1	6.4	<0.1	32	<0.5	16	7	<1

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Element Method Det.Lim. Units	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 200E 725N	<1	6.9	<0.1	25	<0.5	22	7	1
Line 200E 750N	<1	12.1	<0.1	26	<0.5	20	12	<1
Line 200E 775N	<1	5.0	<0.1	21	<0.5	26	6	2
Line 200E 800N	<1	23.5	<0.1	15	<0.5	13	22	<1
Line 200E 825N	<1	22.3	<0.1	25	<0.5	<5	15	<1
Line 200E 850N	<1	4.5	<0.1	3	<0.5	6	4	<1
Line 200E 875N	<1	5.1	<0.1	6	<0.5	<5	5	<1
Line 200E 900N	<1	31.9	<0.1	17	<0.5	33	26	<1
Line 200E 925N	<1	6.6	<0.1	8	<0.5	15	8	<1
Line 200E 950N	<1	6.5	<0.1	9	<0.5	6	5	<1
Line 200E 975N	<1	1.4	<0.1	27	0.7	8	1	<1
Line 200E 1000N	<1	13.4	<0.1	23	<0.5	57	15	<1
*Rep Line 0 225N	<1	21.2	<0.1	44	<0.5	48	22	2
*Rep Line 0 575N	<1	85.5	<0.1	46	<0.5	8	38	<1
*Rep Line 0 725N	<1	61.6	<0.1	29	<0.5	20	39	<1
*Rep Line 100E 300N	<1	8.1	<0.1	130	<0.5	56	10	1
*Rep Line 100E 450N	<1	25.1	<0.1	44	<0.5	22	18	2
*Rep Line 100E 800N	<1	10.9	<0.1	7	<0.5	9	9	<1
*Rep Line 200E 275N	<1	4.9	<0.1	48	0.5	17	4	4
*Rep Line 200E 700N	<1	7.2	<0.1	30	<0.5	12	8	<1
*Rep Line 200E 950N	<1	5.2	<0.1	9	<0.5	9	4	<1
*Std MMISRM24	5	4.4	2.8	141	<0.5	<5	4	<1
*Std MMISRM19	<1	2.6	<0.1	208	<0.5	15	7	<1
*Std AMIS0169	<1	76.9	<0.1	242	0.6	36	45	<1
*Bik BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1
*Bik BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1
*Bik BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1
*Bik BLANK	<1	<0.5	<0.1	<1	<0.5	6	<1	<1
*Bik BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1

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Element Method Det.Lim. Units	Sr GE_MMI_M 10 ppb	Ta GE_MMI_M 1 ppb	Tb GE_MMI_M 0.1 ppb	Te GE_MMI_M 10 ppb	Th GE_MMI_M 0.5 ppb	Ti GE_MMI_M 10 ppb	Tl GE_MMI_M 0.1 ppb	U GE_MMI_M 0.5 ppb
Line 0 0N	340	<1	8.8	<10	15.0	230	0.3	44.3
Line 0 25N	200	<1	3.7	<10	26.3	860	0.4	10.5
Line 0 50N	90	<1	3.2	<10	11.8	930	0.4	7.9
Line 0 75N	200	<1	7.6	<10	44.7	920	0.7	10.1
Line 0 100N	40	<1	1.6	<10	8.2	1220	0.2	3.1
Line 0 125N	270	<1	0.7	<10	13.2	1960	0.2	2.4
Line 0 150N	210	<1	3.4	<10	42.3	2400	0.6	5.7
Line 0 175N	220	<1	3.4	<10	41.9	1110	0.5	5.6
Line 0 200N	170	<1	1.4	<10	29.3	1260	0.4	5.9
Line 0 225N	150	<1	3.4	<10	26.3	4650	0.6	7.1
Line 0 250N	190	<1	3.8	<10	19.3	490	0.8	7.3
Line 0 275N	170	<1	4.0	<10	4.5	400	0.1	3.3
Line 0 300N	520	<1	2.5	<10	7.4	150	0.1	10.2
Line 0 325N	430	<1	9.4	<10	5.3	<10	<0.1	26.8
Line 0 350N	260	<1	0.2	<10	2.3	<10	0.2	3.5
Line 0 375N	150	<1	1.1	<10	13.0	1910	0.4	3.6
Line 0 375NB	30	<1	3.0	<10	22.1	2180	0.7	7.5
Line 0 400N	190	<1	22.9	<10	41.0	520	0.3	47.0
Line 0 425N	390	<1	1.5	<10	14.4	4510	0.6	4.1
Line 0 425NB	140	<1	0.5	<10	11.7	1690	0.6	3.0
Line 0 450N	140	<1	1.7	<10	16.1	2930	0.2	5.0
Line 0 475N	340	<1	3.9	<10	23.6	2710	0.5	8.0
Line 0 475NB	230	2	2.5	<10	29.2	8850	0.6	10.0
Line 0 500N	280	<1	6.2	<10	39.3	170	0.1	30.4
Line 0 525N	290	<1	1.4	<10	21.5	180	0.3	67.0
Line 0 550N	140	<1	0.7	<10	14.8	3050	0.2	5.8
Line 0 575N	300	<1	2.5	<10	24.5	440	0.1	8.0
Line 0 600N	80	1	1.6	<10	18.0	6300	0.2	7.3
Line 0 625N	220	2	3.5	<10	25.1	6550	0.8	9.0
Line 0 650N	170	1	5.0	<10	35.2	2420	0.6	12.6
Line 0 675N	250	<1	1.7	<10	13.2	620	<0.1	5.4
Line 0 700N	240	<1	3.1	<10	17.7	1300	0.3	7.0
Line 0 725N	230	<1	3.5	<10	34.6	750	0.3	31.8
Line 0 750N	200	<1	3.6	<10	31.6	1450	0.4	9.5
Line 0 775N	270	<1	5.4	<10	19.8	230	0.2	48.4
Line 0 800N	240	<1	10.1	<10	24.6	20	0.1	31.0
Line 0 825N	160	<1	2.4	<10	13.6	2500	0.2	6.5
Line 0 850N	170	1	2.0	<10	20.7	4190	0.3	5.8
Line 0 875N	150	<1	2.0	<10	17.4	1560	0.2	7.2
Line 0 900N	210	<1	1.9	<10	32.3	790	0.4	8.3

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Element Method Det.Lim. Units	Sr	Ta	Tb	Te	Th	Ti	Tl	U
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	10	1	0.1	10	0.5	10	0.1	0.5
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Line 0 925N	180	<1	1.2	<10	18.9	490	0.3	10.2
Line 0 950N	350	<1	2.5	<10	10.0	140	0.2	84.5
Line 0 975N	260	<1	2.4	<10	15.9	2350	0.3	10.4
Line 0 1000N	360	3	1.5	<10	23.0	10500	0.5	11.5
Line 100E 0N	110	<1	1.5	<10	11.4	550	0.3	4.7
Line 100E 25N	100	<1	1.6	<10	12.5	1740	0.5	5.3
Line 100E 50N	190	<1	0.8	<10	13.3	1640	0.5	4.3
Line 100E 75N	320	<1	0.5	<10	8.7	2300	0.2	2.0
Line 100E 100N	30	<1	6.5	<10	38.2	4100	0.4	10.4
Line 100E 125N	90	<1	1.0	<10	8.5	1250	0.3	3.7
Line 100E 150N	90	<1	0.9	<10	6.7	2250	0.2	3.5
Line 100E 175N	240	<1	1.7	<10	5.4	990	0.5	6.2
Line 100E 200N	270	<1	2.9	<10	2.1	80	0.3	3.1
Line 100E 225N	260	1	1.2	<10	12.3	4470	0.3	4.0
Line 100E 250N	70	<1	1.3	<10	5.3	1280	0.3	3.1
Line 100E 275N	90	<1	1.2	<10	7.9	1910	0.3	4.3
Line 100E 300N	50	<1	2.5	<10	8.9	1530	0.4	4.5
Line 100E 325N	140	<1	1.1	<10	12.6	3920	0.3	3.3
Line 100E 350N	170	<1	1.3	<10	3.9	280	0.5	5.8
Line 100E 350NB	160	<1	4.2	<10	16.7	1100	0.4	12.5
Line 100E 375N	190	<1	1.6	<10	7.1	1300	0.2	4.1
Line 100E 400N	140	<1	0.8	<10	7.4	1880	0.4	3.9
Line 100E 400NB	660	<1	1.1	<10	14.8	200	0.3	5.4
Line 100E 425N	110	<1	1.2	<10	12.3	2360	0.1	4.8
Line 100E 450N	100	<1	2.1	<10	19.0	1440	0.3	7.1
Line 100E 450NB	560	<1	1.1	<10	5.2	140	0.2	2.7
Line 100E 475N	230	<1	0.2	<10	2.6	40	0.1	1.5
Line 100E 500N	230	1	4.1	<10	32.4	2490	0.4	9.9
Line 100E 525N	700	<1	0.6	<10	4.2	220	0.2	6.4
Line 100E 550N	150	<1	2.7	<10	18.2	590	0.3	8.4
Line 100E 575N	340	<1	3.3	<10	16.6	40	0.5	53.5
Line 100E 600N	580	<1	0.7	<10	1.1	<10	0.1	5.0
Line 100E 625N	330	<1	3.4	<10	4.3	50	0.1	42.3
Line 100E 650N	380	<1	1.9	<10	8.5	110	0.4	28.3
Line 100E 675N	150	1	0.9	<10	20.7	4330	0.6	6.5
Line 100E 700N	60	<1	1.2	<10	15.2	3610	0.2	7.2
Line 100E 725N	140	1	0.8	<10	22.6	5220	0.3	6.0
Line 100E 750N	60	<1	1.8	<10	7.5	2230	0.1	2.5
Line 100E 775N	520	3	1.3	<10	35.0	14300	0.8	10.0
Line 100E 800N	400	<1	1.3	<10	3.4	60	0.1	22.3

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Element Method Det.Lim. Units	Sr GE_MMI_M 10 ppb	Ta GE_MMI_M 1 ppb	Tb GE_MMI_M 0.1 ppb	Te GE_MMI_M 10 ppb	Th GE_MMI_M 0.5 ppb	Ti GE_MMI_M 10 ppb	Tl GE_MMI_M 0.1 ppb	U GE_MMI_M 0.5 ppb
Line 100E 825N	140	<1	3.1	<10	10.2	720	0.2	9.4
Line 100E 850N	150	<1	1.6	<10	11.1	350	0.3	27.5
Line 100E 875N	220	<1	2.1	<10	12.5	70	0.2	28.6
Line 100E 900N	200	<1	2.7	<10	18.3	290	0.3	35.9
Line 100E 925N	150	<1	2.6	<10	32.6	240	0.2	34.3
Line 100E 950N	390	<1	1.0	<10	16.6	170	0.2	5.1
Line 100E 975N	290	<1	0.5	<10	14.3	600	0.1	4.3
Line 100E 1000N	270	<1	0.4	<10	9.2	940	<0.1	2.9
Line 200E 0N	360	1	1.3	<10	16.9	4130	0.3	3.9
Line 200E 25N	340	2	1.3	<10	17.8	8340	0.4	4.0
Line 200E 50N	60	<1	1.6	<10	9.1	180	0.3	4.0
Line 200E 75N	110	<1	1.1	<10	6.4	1950	0.3	3.0
Line 200E 100N	250	1	2.0	<10	18.8	4410	0.4	6.9
Line 200E 125N	50	<1	1.8	<10	10.3	900	0.4	3.9
Line 200E 150N	80	<1	1.1	<10	7.9	550	0.3	3.7
Line 200E 175N	270	2	0.7	<10	16.4	12500	0.3	5.4
Line 200E 200N	140	2	0.8	<10	14.0	8610	0.4	4.7
Line 200E 225N	140	2	1.2	<10	17.4	7580	0.5	4.2
Line 200E 250N	160	2	0.7	<10	11.3	8150	0.5	4.1
Line 200E 250NB	220	<1	6.0	<10	16.2	3000	0.2	11.1
Line 200E 275N	190	<1	0.5	<10	8.5	1250	0.2	2.2
Line 200E 300N	160	<1	1.5	<10	9.2	2560	0.4	3.4
Line 200E 300NB	460	<1	9.4	10	5.4	30	0.1	29.0
Line 200E 325N	170	7	0.6	<10	15.1	31400	0.5	4.7
Line 200E 350N	280	3	0.8	<10	16.3	12900	0.7	5.3
Line 200E 350NB	420	<1	12.1	<10	35.4	370	0.4	33.4
Line 200E 375N	210	6	1.2	<10	26.5	27800	0.8	8.3
Line 200E 400N	120	5	0.5	<10	12.4	22300	0.4	4.6
Line 200E 425N	310	2	2.7	<10	37.2	6860	0.3	11.8
Line 200E 450N	450	<1	0.5	<10	13.8	1250	0.2	2.4
Line 200E 475N	330	3	1.6	<10	31.9	8760	0.3	8.0
Line 200E 500N	220	<1	1.1	<10	27.1	2560	0.2	5.3
Line 200E 525N	120	<1	0.8	<10	10.3	310	0.1	6.8
Line 200E 550N	190	<1	3.7	<10	26.4	760	0.2	8.0
Line 200E 575N	290	<1	1.1	<10	2.3	<10	<0.1	56.7
Line 200E 600N	420	<1	2.0	<10	4.2	40	<0.1	19.6
Line 200E 625N	310	<1	3.5	<10	8.1	100	0.5	38.0
Line 200E 650N	340	<1	2.5	<10	4.4	30	<0.1	20.9
Line 200E 675N	180	<1	0.5	<10	14.0	980	0.3	4.1
Line 200E 700N	170	<1	1.1	<10	6.3	1460	0.1	2.6

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Element Method Det.Lim. Units	Sr GE_MMI_M 10 ppb	Ta GE_MMI_M 1 ppb	Tb GE_MMI_M 0.1 ppb	Te GE_MMI_M 10 ppb	Th GE_MMI_M 0.5 ppb	Ti GE_MMI_M 10 ppb	Tl GE_MMI_M 0.1 ppb	U GE_MMI_M 0.5 ppb
Line 200E 725N	30	<1	1.1	<10	9.2	2330	0.1	5.1
Line 200E 750N	70	<1	1.9	<10	7.3	1600	0.1	2.9
Line 200E 775N	50	<1	1.0	<10	7.1	2270	<0.1	2.4
Line 200E 800N	200	<1	2.7	<10	8.3	490	0.2	10.3
Line 200E 825N	410	<1	1.3	<10	8.8	140	0.1	5.1
Line 200E 850N	250	<1	0.8	<10	5.5	120	0.1	16.7
Line 200E 875N	370	<1	1.0	<10	2.7	10	<0.1	16.3
Line 200E 900N	200	<1	3.5	<10	18.7	240	0.4	63.7
Line 200E 925N	360	<1	1.7	<10	6.6	90	0.1	27.1
Line 200E 950N	340	<1	0.5	<10	10.2	110	0.1	5.4
Line 200E 975N	400	<1	0.2	<10	4.2	300	0.2	1.6
Line 200E 1000N	280	<1	2.6	<10	23.4	800	0.1	16.4
*Rep Line 0 225N	140	<1	3.1	<10	24.1	3960	0.5	6.8
*Rep Line 0 575N	360	<1	3.0	<10	27.9	480	0.2	9.3
*Rep Line 0 725N	230	<1	3.7	<10	35.3	800	0.2	34.7
*Rep Line 100E 300N	70	<1	2.3	<10	9.3	1630	0.4	4.7
*Rep Line 100E 450N	80	<1	1.9	<10	16.3	1580	0.3	6.8
*Rep Line 100E 800N	420	<1	1.3	<10	3.8	60	0.2	20.5
*Rep Line 200E 275N	180	<1	0.4	<10	8.7	1370	0.3	2.1
*Rep Line 200E 700N	160	<1	1.3	<10	5.4	1180	0.2	2.4
*Rep Line 200E 950N	410	<1	0.5	<10	6.3	90	0.1	5.3
*Std MMISRM24	1970	<1	0.4	<10	12.0	20	0.1	8.5
*Std MMISRM19	4680	<1	1.6	<10	15.1	<10	0.9	59.7
*Std AMIS0169	90	<1	3.8	<10	50.5	310	1.1	18.7
*Bik BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5
*Bik BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5
*Bik BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5
*Bik BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5
*Bik BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5

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Element Method Det.Lim. Units	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	1	0.2	10	2
	ppb	ppb	ppb	ppb	ppb
Line 0 0N	0.6	321	19.8	390	19
Line 0 25N	0.7	101	7.5	50	39
Line 0 50N	0.6	80	5.3	30	22
Line 0 75N	1.4	189	12.8	370	97
Line 0 100N	0.6	66	7.1	370	23
Line 0 125N	1.1	20	2.0	1950	35
Line 0 150N	0.9	83	7.0	210	82
Line 0 175N	0.9	79	6.8	500	87
Line 0 200N	1.1	51	4.9	3840	32
Line 0 225N	1.6	101	9.3	550	62
Line 0 250N	1.0	97	6.2	350	45
Line 0 275N	0.5	227	24.9	420	7
Line 0 300N	<0.5	108	7.6	950	10
Line 0 325N	<0.5	573	31.9	130	6
Line 0 350N	<0.5	6	0.3	70	7
Line 0 375N	0.7	29	2.8	780	39
Line 0 375NB	0.9	80	6.7	160	57
Line 0 400N	1.0	978	57.9	90	36
Line 0 425N	1.3	45	3.3	1110	60
Line 0 425NB	1.1	17	1.3	670	55
Line 0 450N	1.1	35	3.0	110	60
Line 0 475N	1.2	104	7.8	150	63
Line 0 475NB	2.6	70	5.4	610	108
Line 0 500N	<0.5	196	13.6	80	65
Line 0 525N	<0.5	95	9.5	20	29
Line 0 550N	0.9	24	2.3	230	41
Line 0 575N	<0.5	73	5.1	270	17
Line 0 600N	1.7	47	4.3	150	78
Line 0 625N	2.0	85	6.8	290	96
Line 0 650N	1.1	150	11.7	100	58
Line 0 675N	<0.5	59	4.1	120	14
Line 0 700N	1.3	83	6.5	50	40
Line 0 725N	0.8	99	7.3	30	64
Line 0 750N	1.1	88	6.8	110	60
Line 0 775N	0.5	201	16.3	100	23
Line 0 800N	<0.5	293	17.6	60	15
Line 0 825N	1.0	62	5.0	220	39
Line 0 850N	1.6	56	4.2	440	66
Line 0 875N	0.7	58	4.7	390	24
Line 0 900N	0.9	42	3.6	260	57

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Element Method Det.Lim. Units	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	1	0.2	10	2
	ppb	ppb	ppb	ppb	ppb
Line 0 925N	0.8	29	2.4	140	28
Line 0 950N	<0.5	82	5.7	350	15
Line 0 975N	1.2	65	4.2	30	47
Line 0 1000N	2.3	36	3.1	90	104
Line 100E 0N	<0.5	37	3.1	200	24
Line 100E 25N	0.6	50	5.9	190	44
Line 100E 50N	<0.5	22	2.5	2820	44
Line 100E 75N	1.3	15	1.3	5520	31
Line 100E 100N	1.3	180	14.8	80	98
Line 100E 125N	<0.5	30	2.7	2970	26
Line 100E 150N	0.7	43	5.1	2940	32
Line 100E 175N	0.7	57	6.4	700	19
Line 100E 200N	<0.5	136	10.7	820	4
Line 100E 225N	1.3	34	3.0	3200	52
Line 100E 250N	<0.5	59	7.1	2450	21
Line 100E 275N	0.8	43	4.3	3620	39
Line 100E 300N	<0.5	91	7.5	850	35
Line 100E 325N	1.1	39	4.2	1120	49
Line 100E 350N	<0.5	43	4.6	180	8
Line 100E 350NB	1.0	127	13.6	120	42
Line 100E 375N	<0.5	49	3.7	2360	24
Line 100E 400N	0.8	26	3.5	3530	26
Line 100E 400NB	1.3	40	6.1	12800	19
Line 100E 425N	0.8	44	4.2	390	27
Line 100E 450N	1.3	45	3.5	650	34
Line 100E 450NB	<0.5	47	4.8	1150	6
Line 100E 475N	<0.5	15	2.5	2630	3
Line 100E 500N	1.7	98	7.2	510	65
Line 100E 525N	0.6	18	1.6	10400	7
Line 100E 550N	0.5	70	5.2	150	25
Line 100E 575N	<0.5	194	14.5	60	48
Line 100E 600N	<0.5	46	2.9	800	3
Line 100E 625N	<0.5	292	23.5	80	22
Line 100E 650N	<0.5	77	6.5	1450	22
Line 100E 675N	2.2	29	3.2	840	63
Line 100E 700N	1.6	34	4.6	160	46
Line 100E 725N	2.1	25	2.6	230	75
Line 100E 750N	0.5	51	5.3	300	24
Line 100E 775N	4.1	34	3.5	390	147
Line 100E 800N	<0.5	53	4.1	310	8

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Element Method Det.Lim. Units	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	1	0.2	10	2
	ppb	ppb	ppb	ppb	ppb
Line 100E 825N	1.0	93	7.0	490	13
Line 100E 850N	0.5	78	6.1	30	21
Line 100E 875N	0.6	106	8.8	300	54
Line 100E 900N	<0.5	102	8.9	300	55
Line 100E 925N	<0.5	87	8.0	30	83
Line 100E 950N	<0.5	27	1.8	90	31
Line 100E 975N	0.6	12	0.9	80	28
Line 100E 1000N	0.6	11	0.8	60	27
Line 200E 0N	1.2	37	3.5	620	56
Line 200E 25N	2.0	38	3.5	560	75
Line 200E 50N	<0.5	51	4.0	<10	19
Line 200E 75N	0.6	37	3.1	60	24
Line 200E 100N	1.5	51	4.1	110	64
Line 200E 125N	<0.5	52	3.8	30	29
Line 200E 150N	<0.5	39	3.3	10	20
Line 200E 175N	3.4	23	2.2	110	111
Line 200E 200N	2.5	24	2.2	500	100
Line 200E 225N	1.7	31	2.7	590	77
Line 200E 250N	2.5	21	1.8	480	104
Line 200E 250NB	1.2	210	15.4	3230	34
Line 200E 275N	0.8	17	1.2	1270	33
Line 200E 300N	0.7	48	3.3	340	36
Line 200E 300NB	<0.5	593	35.1	360	7
Line 200E 325N	5.0	21	2.2	290	122
Line 200E 350N	3.0	25	2.3	340	123
Line 200E 350NB	0.6	430	26.3	370	58
Line 200E 375N	4.5	35	3.4	350	150
Line 200E 400N	4.3	15	1.5	260	95
Line 200E 425N	1.8	63	4.6	430	100
Line 200E 450N	0.9	22	3.2	610	25
Line 200E 475N	1.6	34	2.7	150	96
Line 200E 500N	1.6	41	3.8	320	40
Line 200E 525N	<0.5	35	3.2	330	9
Line 200E 550N	0.5	96	7.5	170	36
Line 200E 575N	<0.5	83	5.2	230	8
Line 200E 600N	<0.5	102	6.8	50	11
Line 200E 625N	<0.5	212	15.0	320	16
Line 200E 650N	<0.5	192	14.6	70	12
Line 200E 675N	1.5	16	1.8	740	23
Line 200E 700N	0.5	33	3.5	380	18

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Element Method Det.Lim. Units	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	1	0.2	10	2
	ppb	ppb	ppb	ppb	ppb
Line 200E 725N	0.9	34	3.6	110	32
Line 200E 750N	<0.5	54	4.3	280	20
Line 200E 775N	0.6	37	3.2	230	21
Line 200E 800N	0.5	92	5.3	70	11
Line 200E 825N	<0.5	43	3.0	50	19
Line 200E 850N	<0.5	48	3.3	30	11
Line 200E 875N	<0.5	51	3.5	310	18
Line 200E 900N	<0.5	160	11.9	370	88
Line 200E 925N	<0.5	93	6.9	280	25
Line 200E 950N	<0.5	17	1.6	270	17
Line 200E 975N	<0.5	5	0.4	240	10
Line 200E 1000N	<0.5	93	6.6	90	38
*Rep Line 0 225N	1.4	94	9.4	720	55
*Rep Line 0 575N	<0.5	91	6.4	360	20
*Rep Line 0 725N	0.8	98	7.5	30	62
*Rep Line 100E 300N	0.6	87	7.4	940	34
*Rep Line 100E 450N	1.2	40	3.0	680	33
*Rep Line 100E 800N	<0.5	51	4.0	400	10
*Rep Line 200E 275N	0.8	16	1.2	1170	33
*Rep Line 200E 700N	0.6	36	3.5	330	15
*Rep Line 200E 950N	<0.5	19	1.7	210	14
*Std MMISRM24	<0.5	17	0.7	210	21
*Std MMISRM19	<0.5	60	4.2	2180	13
*Std AMIS0169	0.9	97	6.7	160	36
*Bik BLANK	<0.5	<1	<0.2	<10	<2
*Bik BLANK	<0.5	<1	<0.2	<10	<2
*Bik BLANK	<0.5	<1	<0.2	<10	<2
*Bik BLANK	<0.5	<1	<0.2	<10	<2
*Bik BLANK	<0.5	<1	<0.2	<10	<2

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Certificate of Analysis
Work Order : VC183056
[Report File No.: 000031626]

Date: September 21, 2018

To: Charles Gryba
COD SGS MINERALS - GEOCHEM VANCOUVER
Central Timmins Exploration Corp.
200 Bay Street, Suite 2350
Toronto
ONT M5J 2J2

P.O. No.: Central Timmins Exploration Corp.
Project No.: -
Samples: 86
Received: Aug 21, 2018
Pages: Page 1 to 22
(Inclusive of Cover Sheet)

Methods Summary

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

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE 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

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppm	GE_MMI_M 10 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 2 ppm	GE_MMI_M 1 ppb
Line 0 0N	<0.5	40	<10	<0.1	280	<0.5	232	19
Line 0 25N	<0.5	52	<10	<0.1	220	<0.5	212	15
Line 0 50N	<0.5	62	<10	<0.1	320	<0.5	241	26
Line 0 75N	<0.5	19	<10	<0.1	210	<0.5	273	22
Line 0 100N	<0.5	25	<10	<0.1	160	<0.5	244	11
Line 0 125N	1.3	87	<10	<0.1	680	<0.5	273	23
Line 0 150N	1.1	93	<10	<0.1	680	<0.5	270	21
Line 0 175N	<0.5	45	<10	<0.1	440	<0.5	297	8
Line 0 200N	0.8	36	<10	<0.1	520	<0.5	176	16
Line 0 225N	0.6	31	<10	<0.1	140	<0.5	340	15
Line 0 250N	<0.5	14	<10	<0.1	140	<0.5	274	10
Line 0 275N	1.3	37	<10	<0.1	260	<0.5	331	20
Line 0 300N	1.0	16	<10	<0.1	280	<0.5	290	18
Line 0 325N	2.1	114	<10	<0.1	270	0.7	221	62
Line 0 350N	<0.5	57	<10	<0.1	210	<0.5	262	29
Line 0 375N	<0.5	24	<10	<0.1	130	<0.5	133	17
Line 0 400N	0.6	75	<10	<0.1	200	<0.5	121	26
Line 0 425N	<0.5	43	<10	<0.1	150	2.0	100	29
Line 0 450N	<0.5	74	10	<0.1	120	1.3	55	18
Line 0 475N	0.9	70	<10	<0.1	470	<0.5	182	11
Line 0 500N	0.7	138	<10	<0.1	570	1.0	128	21
Line 0 525N	0.7	291	20	<0.1	740	0.7	11	4
Line 0 550N	<0.5	77	<10	<0.1	100	0.6	<2	14
Line 0 575N	<0.5	177	20	<0.1	470	1.5	10	26
Line 0 600N	<0.5	85	10	<0.1	100	<0.5	11	10
Line 0 600NB	1.5	153	20	<0.1	130	0.7	5	11
Line 0 625N	1.2	226	30	0.1	340	1.6	15	10
Line 0 650N	0.7	184	50	<0.1	520	2.5	34	15
Line 0 650NB	<0.5	217	50	<0.1	1180	2.7	21	16
Line 0 675N	1.9	154	20	<0.1	290	0.5	16	7
Line 0 700N	<0.5	94	10	<0.1	220	5.9	8	53
Line 0 700NB	1.2	177	20	<0.1	120	1.1	9	14
Line 0 725N	<0.5	143	30	<0.1	720	5.9	19	48
Line 0 750N	<0.5	152	30	<0.1	530	1.7	12	14
Line 0 775N	1.0	143	20	<0.1	180	<0.5	4	13
Line 0 800N	<0.5	168	40	<0.1	320	2.3	10	14
Line 0 825N	1.3	206	50	<0.1	1210	1.3	33	4
Line 0 850N	1.1	219	30	<0.1	930	1.2	37	6
Line 0 875N	2.8	233	10	<0.1	330	0.9	6	8
Line 100E 0N	6.5	138	<10	<0.1	820	<0.5	330	5

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppb	1 ppm	10 ppb	0.1 ppb	10 ppb	0.5 ppb	2 ppm	1 ppb
Line 100E 25N	0.7	112	10	<0.1	320	2.2	134	56
Line 100E 50N	4.2	43	<10	0.4	1330	<0.5	380	6
Line 100E 75N	6.6	50	<10	0.4	950	<0.5	359	11
Line 100E 100N	3.0	88	10	0.1	670	<0.5	246	22
Line 100E 125N	1.1	159	<10	<0.1	410	2.0	15	9
Line 100E 150N	2.5	148	<10	0.3	2120	<0.5	365	10
Line 100E 175N	5.8	100	<10	0.2	2090	<0.5	396	7
Line 100E 200N	7.1	83	<10	0.3	1560	<0.5	442	11
Line 100E 225N	3.7	90	<10	<0.1	820	<0.5	178	41
Line 100E 250N	2.7	193	10	<0.1	1990	<0.5	158	18
Line 100E 275N	1.3	361	20	<0.1	2860	0.8	64	7
Line 100E 300N	1.8	156	10	<0.1	330	1.6	81	9
Line 100E 325N	1.1	189	<10	<0.1	340	0.8	30	20
Line 100E 350N	0.6	99	<10	<0.1	240	1.8	43	16
Line 100E 375N	1.9	136	<10	<0.1	400	1.1	91	13
Line 100E 400N	0.9	143	<10	<0.1	310	1.2	91	15
Line 100E 425N	2.6	99	<10	<0.1	370	<0.5	188	10
Line 100E 450N	0.7	112	<10	<0.1	850	6.1	21	23
Line 100E 475N	1.4	143	10	<0.1	400	0.8	15	10
Line 100E 500N	2.9	140	20	<0.1	250	0.6	9	16
Line 100E 525N	0.8	114	<10	<0.1	470	1.3	46	16
Line 100E 525NB	0.7	217	20	<0.1	510	4.9	20	41
Line 100E 550N	2.2	67	<10	0.1	340	2.6	25	14
Line 100E 575N	3.0	128	<10	0.1	300	1.4	20	10
Line 100E 575NB	3.0	247	20	<0.1	780	0.8	7	15
Line 100E 600N	1.6	88	20	<0.1	340	2.1	36	8
Line 100E 625N	<0.5	243	20	<0.1	920	2.9	25	26
Line 100E 625NB	1.7	258	40	0.1	810	2.6	25	25
Line 100E 650N	3.4	123	60	0.2	980	2.3	53	6
Line 100E 675N	12.1	146	10	<0.1	300	<0.5	4	5
Line 100E 700N	2.7	165	60	<0.1	670	4.6	17	12
Line 100E 725N	7.3	189	30	<0.1	340	0.8	6	10
Line 100E 750N	9.1	232	70	<0.1	450	0.9	3	16
Line 100E 775N	4.0	291	50	<0.1	710	1.7	4	8
Line 100E 800N	5.6	200	30	0.1	750	1.7	39	24
Line 100E 825N	<0.5	128	<10	<0.1	330	1.1	19	<1
Line 100E 850N	0.8	68	<10	<0.1	140	<0.5	252	18
Line 100E 875N	1.0	111	<10	<0.1	110	<0.5	229	49
Line 200E 0N	5.4	307	20	<0.1	1450	0.7	54	40
Line 200E 25N	3.0	282	10	<0.1	700	0.9	14	8

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppm	GE_MMI_M 10 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 2 ppm	GE_MMI_M 1 ppb
Line 200E 50N	6.0	167	<10	<0.1	560	<0.5	38	10
Line 200E 75N	9.6	197	<10	<0.1	1210	<0.5	29	21
Line 200E 100N	2.0	207	10	<0.1	600	1.3	30	24
Line 200E 125N	4.3	296	30	<0.1	970	1.5	56	13
Line 200E 150N	7.3	219	<10	<0.1	650	<0.5	26	7
Line 200E 175N	5.8	4	<10	0.2	1120	<0.5	209	2
*Rep Line 0 0N	<0.5	35	<10	<0.1	250	<0.5	214	16
*Rep Line 100E 425N	2.5	98	<10	<0.1	320	<0.5	188	12
*Rep Line 200E 125N	4.0	293	20	0.1	940	1.1	54	13
*Std MMISRM24	20.7	25	<10	3.2	110	<0.5	55	5
*Std MMISRM19	26.9	19	<10	4.2	1530	<0.5	729	34
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	2	<1
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1

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Element Method Det.Lim. Units	Ce GE_MMI_M 2 ppb	Co GE_MMI_M 1 ppb	Cr GE_MMI_M 100 ppb	Cs GE_MMI_M 0.2 ppb	Cu GE_MMI_M 10 ppb	Dy GE_MMI_M 0.5 ppb	Er GE_MMI_M 0.2 ppb	Eu GE_MMI_M 0.2 ppb
Line 0 0N	5	19	<100	0.7	20	0.9	1.0	<0.2
Line 0 25N	11	12	<100	0.8	30	1.9	1.6	0.4
Line 0 50N	16	25	<100	0.6	70	4.9	3.8	0.7
Line 0 75N	5	15	<100	0.3	10	0.7	0.5	<0.2
Line 0 100N	5	23	<100	0.5	10	1.1	0.8	<0.2
Line 0 125N	93	50	<100	1.0	380	13.7	8.8	2.9
Line 0 150N	50	22	<100	1.0	80	7.6	4.7	1.5
Line 0 175N	48	8	<100	0.5	30	3.4	2.1	0.9
Line 0 200N	30	31	<100	0.5	120	3.1	2.0	0.7
Line 0 225N	9	7	<100	<0.2	20	1.5	1.0	0.3
Line 0 250N	23	10	<100	0.5	70	1.7	0.9	0.4
Line 0 275N	33	5	<100	0.4	10	3.9	2.3	1.0
Line 0 300N	30	9	<100	0.6	90	1.9	1.0	0.6
Line 0 325N	177	19	<100	0.8	300	16.4	9.4	4.6
Line 0 350N	11	25	<100	0.5	70	4.6	3.5	0.6
Line 0 375N	46	43	<100	<0.2	80	4.4	2.7	1.4
Line 0 400N	40	90	<100	0.4	70	12.2	8.6	1.7
Line 0 425N	59	86	<100	0.3	60	5.8	4.0	1.9
Line 0 450N	44	43	<100	0.3	140	4.7	4.6	1.0
Line 0 475N	313	36	<100	1.1	140	13.9	6.8	5.4
Line 0 500N	310	62	100	2.3	70	29.8	14.7	9.9
Line 0 525N	167	15	100	3.6	50	10.6	5.0	4.6
Line 0 550N	82	7	<100	2.8	80	6.6	3.7	3.3
Line 0 575N	48	25	<100	1.5	160	4.6	2.5	1.6
Line 0 600N	123	12	<100	2.1	100	10.1	4.9	5.3
Line 0 600NB	81	6	<100	2.6	140	6.4	3.3	3.5
Line 0 625N	106	10	100	3.3	220	7.5	3.4	3.7
Line 0 650N	52	10	100	1.3	280	3.5	1.9	1.5
Line 0 650NB	81	23	200	3.4	150	5.1	2.6	2.0
Line 0 675N	185	23	100	2.4	160	13.8	6.5	5.6
Line 0 700N	4	21	<100	2.9	60	0.7	0.6	<0.2
Line 0 700NB	259	17	<100	5.4	200	25.8	13.0	11.1
Line 0 725N	50	14	<100	0.6	310	4.5	2.6	1.3
Line 0 750N	53	8	100	0.3	140	3.2	1.6	1.1
Line 0 775N	99	20	<100	2.5	180	8.4	4.4	4.2
Line 0 800N	33	7	<100	0.8	240	2.4	1.2	1.0
Line 0 825N	681	23	300	2.2	140	28.0	12.7	12.1
Line 0 850N	630	21	200	1.8	130	27.1	12.1	11.2
Line 0 875N	277	64	<100	1.8	220	36.0	20.4	8.0
Line 100E 0N	99	24	<100	2.1	430	19.8	15.1	3.1

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Element Method Det.Lim. Units	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	2	1	100	0.2	10	0.5	0.2	0.2
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Line 100E 25N	82	93	<100	2.7	90	16.2	8.5	3.5
Line 100E 50N	365	71	<100	0.6	350	20.4	10.3	7.4
Line 100E 75N	516	58	<100	0.7	450	21.7	10.6	8.2
Line 100E 100N	159	232	<100	2.2	310	11.8	6.3	3.2
Line 100E 125N	33	75	<100	2.0	140	4.0	3.4	0.6
Line 100E 150N	1230	137	<100	0.8	420	224	139	43.2
Line 100E 175N	1510	143	100	1.2	580	104	64.2	27.9
Line 100E 200N	247	23	100	0.9	410	25.3	15.1	6.2
Line 100E 225N	191	132	<100	2.1	730	23.7	14.1	5.2
Line 100E 250N	761	78	100	2.2	90	47.5	22.7	15.5
Line 100E 275N	546	85	400	11.6	150	25.2	11.1	10.0
Line 100E 300N	200	30	200	1.7	120	13.0	6.4	4.5
Line 100E 325N	84	80	<100	0.6	80	28.3	19.4	3.8
Line 100E 350N	85	82	<100	0.8	210	12.0	7.6	2.6
Line 100E 375N	309	78	<100	1.0	120	25.0	12.9	8.2
Line 100E 400N	270	92	<100	0.6	190	39.1	22.3	9.9
Line 100E 425N	349	55	<100	1.2	260	21.7	12.1	7.1
Line 100E 450N	18	58	<100	1.0	80	3.6	3.9	0.9
Line 100E 475N	168	30	<100	3.8	140	11.1	4.9	5.7
Line 100E 500N	78	39	<100	6.2	320	7.2	3.1	3.3
Line 100E 525N	59	14	<100	0.4	80	4.8	2.6	1.8
Line 100E 525NB	50	65	<100	0.8	190	4.8	3.0	1.5
Line 100E 550N	24	6	<100	0.8	190	1.9	1.0	0.7
Line 100E 575N	136	29	<100	1.9	230	10.7	4.8	4.4
Line 100E 575NB	54	17	<100	2.2	190	4.5	2.3	2.0
Line 100E 600N	26	6	<100	0.9	220	1.8	1.2	0.7
Line 100E 625N	36	35	<100	2.1	190	3.5	2.3	1.4
Line 100E 625NB	107	24	100	2.8	270	6.9	3.8	2.8
Line 100E 650N	83	13	<100	1.5	220	5.5	2.6	2.0
Line 100E 675N	132	16	<100	2.6	220	9.8	4.4	4.4
Line 100E 700N	50	9	100	1.5	250	3.5	1.8	1.3
Line 100E 725N	93	9	100	2.7	240	6.1	2.6	2.9
Line 100E 750N	108	17	200	2.2	260	7.9	3.7	2.9
Line 100E 775N	85	7	200	2.4	300	4.9	2.2	2.0
Line 100E 800N	52	28	<100	3.4	390	5.6	2.8	1.8
Line 100E 825N	12	12	<100	0.7	<10	1.0	1.4	0.2
Line 100E 850N	40	18	<100	0.6	40	7.3	4.2	2.0
Line 100E 875N	66	55	<100	0.3	100	19.2	12.8	3.1
Line 200E 0N	277	50	200	4.5	380	18.0	9.1	6.6
Line 200E 25N	781	24	300	3.3	260	50.1	21.6	18.5

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Element Method Det.Lim. Units	Ce GE_MMI_M 2 ppb	Co GE_MMI_M 1 ppb	Cr GE_MMI_M 100 ppb	Cs GE_MMI_M 0.2 ppb	Cu GE_MMI_M 10 ppb	Dy GE_MMI_M 0.5 ppb	Er GE_MMI_M 0.2 ppb	Eu GE_MMI_M 0.2 ppb
Line 200E 50N	60	29	<100	3.6	130	6.8	3.6	2.8
Line 200E 75N	116	33	<100	4.1	190	10.7	5.5	4.3
Line 200E 100N	28	26	<100	4.1	210	4.7	2.5	1.3
Line 200E 125N	41	17	200	2.9	190	3.9	2.0	1.4
Line 200E 150N	84	16	100	5.1	130	7.6	3.6	2.7
Line 200E 175N	14	81	<100	1.1	1100	2.7	1.5	0.8
*Rep Line 0 0N	6	16	<100	0.9	30	1.2	1.0	0.2
*Rep Line 100E 425N	330	56	<100	1.2	250	23.7	13.4	7.6
*Rep Line 200E 125N	40	17	200	2.6	180	3.7	2.1	1.5
*Std MMISRM24	27	14	<100	8.9	270	2.3	1.0	0.9
*Std MMISRM19	19	325	<100	3.9	2130	10.9	5.7	2.2
*Blk BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2
*Blk BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_M 1 ppm	GE_MMI_M 0.5 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 0 0N	89	4.4	0.7	<1	0.1	2.4	2	2
Line 0 25N	76	5.5	1.6	<1	<0.1	2.4	4	3
Line 0 50N	148	4.7	3.5	<1	0.1	1.8	6	5
Line 0 75N	74	3.5	0.6	<1	0.1	1.2	2	1
Line 0 100N	96	3.4	0.9	<1	<0.1	1.1	2	1
Line 0 125N	137	4.8	12.3	<1	0.1	2.1	37	8
Line 0 150N	123	5.0	6.2	<1	<0.1	3.1	17	4
Line 0 175N	84	4.0	4.0	<1	<0.1	4.3	15	5
Line 0 200N	256	2.9	3.0	<1	<0.1	3.4	9	11
Line 0 225N	70	3.5	1.6	<1	<0.1	0.8	4	<1
Line 0 250N	63	2.4	2.0	<1	<0.1	2.0	11	5
Line 0 275N	119	3.2	4.2	<1	<0.1	2.7	12	2
Line 0 300N	125	2.7	2.5	<1	0.1	2.6	12	3
Line 0 325N	65	11.3	17.8	<1	0.1	8.0	48	13
Line 0 350N	97	4.9	3.6	<1	<0.1	1.0	4	3
Line 0 375N	45	4.2	5.6	<1	0.1	8.4	17	<1
Line 0 400N	195	6.6	7.9	<1	0.1	2.7	16	2
Line 0 425N	148	8.9	6.5	<1	0.5	6.5	21	<1
Line 0 450N	234	6.3	3.7	<1	0.4	3.4	21	1
Line 0 475N	91	7.1	19.9	<1	0.1	6.3	142	5
Line 0 500N	101	17.1	36.8	<1	0.3	5.4	125	11
Line 0 525N	74	33.3	12.2	<1	0.2	5.0	85	8
Line 0 550N	32	15.1	8.3	<1	0.1	9.0	36	<1
Line 0 575N	72	25.9	4.5	<1	0.3	25.6	21	4
Line 0 600N	47	15.4	12.7	<1	0.2	11.3	44	<1
Line 0 600NB	50	41.6	7.6	<1	0.1	9.7	39	1
Line 0 625N	66	41.8	9.2	<1	0.4	12.2	52	2
Line 0 650N	88	58.4	3.9	<1	0.6	16.5	27	5
Line 0 650NB	190	188	5.3	<1	0.4	16.2	49	33
Line 0 675N	57	24.8	17.6	<1	0.2	8.7	79	2
Line 0 700N	31	14.9	<0.5	<1	0.7	20.9	1	1
Line 0 700NB	43	16.6	32.0	<1	0.3	14.3	107	<1
Line 0 725N	91	43.9	4.6	1	0.9	22.4	23	5
Line 0 750N	72	30.0	3.2	<1	0.3	15.4	27	3
Line 0 775N	64	14.7	10.8	<1	0.1	9.0	40	<1
Line 0 800N	79	58.5	2.5	<1	0.4	16.5	17	5
Line 0 825N	255	22.0	38.9	<1	0.3	5.4	322	3
Line 0 850N	102	22.0	36.4	<1	0.3	5.9	303	3
Line 0 875N	103	16.2	29.6	<1	0.2	3.8	114	3
Line 100E 0N	121	7.8	13.7	<1	0.1	4.9	41	18

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	1	0.5	0.5	1	0.1	0.5	1	1
	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb
Line 100E 25N	150	20.3	15.3	<1	0.3	9.4	28	23
Line 100E 50N	28	4.3	28.3	<1	<0.1	5.6	142	4
Line 100E 75N	50	5.9	29.7	<1	<0.1	6.5	184	8
Line 100E 100N	127	8.1	13.1	<1	0.1	6.6	56	15
Line 100E 125N	178	18.1	2.8	<1	0.2	19.9	17	31
Line 100E 150N	74	13.1	211	<1	<0.1	10.2	607	11
Line 100E 175N	36	12.1	128	<1	<0.1	9.3	778	12
Line 100E 200N	14	3.0	28.4	<1	<0.1	9.6	85	4
Line 100E 225N	238	5.3	22.4	<1	0.2	5.2	62	9
Line 100E 250N	112	15.3	64.5	<1	0.1	8.1	347	9
Line 100E 275N	226	48.2	35.6	<1	0.2	11.8	264	59
Line 100E 300N	82	30.0	16.3	<1	0.4	11.8	91	9
Line 100E 325N	171	14.2	18.2	<1	0.2	3.0	32	3
Line 100E 350N	205	15.6	11.8	<1	0.5	8.5	33	11
Line 100E 375N	131	20.5	30.8	<1	0.3	4.2	118	8
Line 100E 400N	187	16.2	40.9	<1	0.2	7.1	99	3
Line 100E 425N	133	7.0	29.2	<1	<0.1	6.7	139	5
Line 100E 450N	140	17.5	3.1	<1	0.8	8.6	8	2
Line 100E 475N	56	18.6	14.5	<1	0.2	10.6	80	<1
Line 100E 500N	56	28.2	8.3	<1	0.2	17.4	34	1
Line 100E 525N	50	18.7	4.9	<1	0.2	12.7	31	3
Line 100E 525NB	115	27.6	4.5	<1	1.1	17.8	17	5
Line 100E 550N	15	12.2	2.3	<1	0.4	12.8	11	2
Line 100E 575N	49	22.3	14.7	<1	0.3	10.5	51	1
Line 100E 575NB	141	48.8	5.1	<1	0.2	13.6	28	4
Line 100E 600N	19	14.1	2.2	<1	0.4	19.6	16	4
Line 100E 625N	77	88.1	3.8	<1	0.5	25.3	19	12
Line 100E 625NB	148	91.0	8.6	<1	0.6	21.3	47	15
Line 100E 650N	85	45.7	6.3	<1	0.6	30.9	49	11
Line 100E 675N	53	19.8	12.7	<1	0.2	10.4	52	2
Line 100E 700N	83	58.5	4.0	<1	0.9	26.6	26	14
Line 100E 725N	83	49.1	7.5	<1	0.3	18.2	47	4
Line 100E 750N	130	73.1	9.3	<1	0.5	36.2	51	7
Line 100E 775N	148	80.4	5.7	<1	0.6	11.4	48	11
Line 100E 800N	97	40.6	5.8	<1	0.5	36.4	23	5
Line 100E 825N	154	26.7	0.9	<1	0.1	12.8	8	5
Line 100E 850N	60	7.3	8.5	<1	<0.1	7.9	19	4
Line 100E 875N	40	9.5	14.6	<1	<0.1	1.1	23	<1
Line 200E 0N	88	21.9	22.6	<1	0.4	24.5	131	7
Line 200E 25N	240	21.2	63.4	<1	0.2	5.0	400	11

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_M 1 ppm	GE_MMI_M 0.5 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 200E 50N	61	50.5	7.9	<1	0.2	6.6	30	3
Line 200E 75N	39	17.8	13.9	<1	0.2	15.0	56	<1
Line 200E 100N	124	30.8	4.4	<1	0.4	23.7	13	3
Line 200E 125N	109	101	3.9	<1	0.2	12.9	23	14
Line 200E 150N	80	10.2	8.5	<1	0.2	22.5	40	3
Line 200E 175N	3	<0.5	3.7	<1	<0.1	7.7	4	11
*Rep Line 0 0N	86	4.3	0.7	<1	<0.1	2.1	2	2
*Rep Line 100E 425N	151	7.7	29.7	<1	0.1	6.1	130	5
*Rep Line 200E 125N	108	93.7	4.0	<1	0.2	13.6	22	12
*Std MMISRM24	5	1.7	2.8	4	<0.1	11.9	10	<1
*Std MMISRM19	5	<0.5	12.0	<1	<0.1	95.7	4	1
*Blk BLANK	<1	0.8	<0.5	<1	<0.1	<0.5	<1	<1
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppm	100 ppb	2 ppb	0.5 ppb	1 ppb	5 ppb	0.1 ppm	5 ppb
Line 0 0N	26.6	23000	4	<0.5	3	65	1.2	324
Line 0 25N	22.9	14300	2	<0.5	6	87	0.7	213
Line 0 50N	32.8	7800	<2	<0.5	10	87	0.2	295
Line 0 75N	32.5	16700	2	<0.5	2	32	0.4	421
Line 0 100N	26.9	8000	2	<0.5	3	44	0.7	66
Line 0 125N	35.6	10900	3	1.0	51	238	0.2	227
Line 0 150N	31.0	4800	4	1.4	24	184	0.4	311
Line 0 175N	33.1	2700	5	1.2	21	97	0.3	167
Line 0 200N	23.5	6200	2	0.9	14	120	0.5	79
Line 0 225N	41.0	1300	<2	<0.5	6	49	0.3	55
Line 0 250N	29.7	2300	3	<0.5	11	48	0.3	157
Line 0 275N	38.9	900	<2	<0.5	19	53	0.2	195
Line 0 300N	30.7	1900	2	0.5	15	45	0.3	284
Line 0 325N	19.9	3200	2	1.2	87	121	0.6	372
Line 0 350N	28.3	3600	<2	<0.5	8	54	0.2	147
Line 0 375N	14.5	3200	<2	<0.5	25	21	3.4	545
Line 0 400N	15.7	2100	<2	<0.5	24	45	1.0	291
Line 0 425N	12.6	1900	3	0.8	34	18	4.0	1170
Line 0 450N	8.6	800	<2	1.0	21	20	2.5	781
Line 0 475N	11.0	1500	2	3.0	152	132	1.6	287
Line 0 500N	8.1	1000	2	5.1	195	154	3.2	436
Line 0 525N	2.2	700	3	10.1	79	31	6.6	185
Line 0 550N	<0.5	200	3	0.9	53	17	0.6	207
Line 0 575N	2.6	600	2	6.1	25	61	8.9	272
Line 0 600N	0.9	500	3	0.8	74	37	0.5	240
Line 0 600NB	0.6	200	2	4.6	44	28	1.2	302
Line 0 625N	2.4	1800	2	5.2	54	45	2.4	541
Line 0 650N	3.9	2800	4	12.7	23	52	5.2	650
Line 0 650NB	7.8	1300	5	49.1	32	89	4.4	499
Line 0 675N	1.0	1800	3	3.7	99	38	2.1	283
Line 0 700N	3.0	100	3	0.9	2	72	2.5	947
Line 0 700NB	1.3	1000	2	1.9	175	59	1.7	461
Line 0 725N	3.4	1000	5	19.0	24	79	12.8	1110
Line 0 750N	2.7	300	4	10.3	19	33	10.8	386
Line 0 775N	<0.5	800	3	1.6	54	47	1.3	166
Line 0 800N	3.4	600	4	13.5	14	37	3.9	645
Line 0 825N	2.6	800	4	11.6	293	113	8.2	188
Line 0 850N	2.7	600	3	10.3	275	101	7.7	196
Line 0 875N	1.4	500	<2	4.5	148	144	3.3	186
Line 100E 0N	45.2	600	<2	1.7	52	296	0.2	345

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppm	100 ppb	2 ppb	0.5 ppb	1 ppb	5 ppb	0.1 ppm	5 ppb
Line 100E 25N	21.9	900	3	6.6	55	124	2.0	1620
Line 100E 50N	69.6	4500	<2	1.1	180	118	0.2	61
Line 100E 75N	60.3	2400	2	1.5	221	232	0.5	97
Line 100E 100N	42.7	16600	4	3.6	77	234	1.1	304
Line 100E 125N	11.2	300	<2	9.2	14	65	2.7	351
Line 100E 150N	69.7	3900	<2	<0.5	902	287	0.3	417
Line 100E 175N	82.4	5800	<2	0.5	732	189	0.2	198
Line 100E 200N	91.5	1200	<2	<0.5	132	112	0.1	82
Line 100E 225N	20.5	8900	7	1.9	91	266	0.7	367
Line 100E 250N	20.5	3100	<2	8.7	356	125	2.4	223
Line 100E 275N	14.7	2500	3	23.3	236	169	5.0	153
Line 100E 300N	7.8	1100	3	12.6	95	106	8.9	583
Line 100E 325N	5.1	900	<2	1.8	59	113	2.0	415
Line 100E 350N	7.4	1200	<2	1.2	46	70	3.3	826
Line 100E 375N	7.2	1100	<2	4.5	166	178	3.5	526
Line 100E 400N	5.6	1500	<2	4.5	172	266	2.8	296
Line 100E 425N	6.4	900	<2	1.0	180	221	1.3	132
Line 100E 450N	4.3	900	<2	<0.5	13	79	6.0	1180
Line 100E 475N	0.8	1600	3	1.3	85	39	1.8	295
Line 100E 500N	0.8	2700	<2	2.7	41	47	1.9	345
Line 100E 525N	4.6	200	2	5.1	27	61	4.0	338
Line 100E 525NB	6.0	3000	<2	3.4	21	61	5.8	1580
Line 100E 550N	3.2	1300	3	4.8	12	39	5.0	773
Line 100E 575N	1.9	2000	<2	1.9	72	57	1.9	604
Line 100E 575NB	1.4	600	2	5.6	24	54	3.3	259
Line 100E 600N	3.6	2000	3	5.8	12	35	4.6	652
Line 100E 625N	6.2	3000	<2	12.3	18	67	6.7	736
Line 100E 625NB	4.7	2600	4	20.9	47	81	5.6	720
Line 100E 650N	5.4	1800	6	14.1	37	63	4.3	1030
Line 100E 675N	0.7	600	<2	0.9	66	36	2.0	276
Line 100E 700N	5.5	1100	5	16.0	22	53	7.7	1160
Line 100E 725N	1.8	800	2	8.8	42	27	3.3	289
Line 100E 750N	2.4	600	3	12.0	48	50	4.2	396
Line 100E 775N	2.7	500	3	15.4	33	32	6.4	405
Line 100E 800N	3.6	5800	2	5.0	26	121	6.9	1070
Line 100E 825N	4.7	<100	<2	<0.5	6	18	1.4	9
Line 100E 850N	10.4	1000	<2	<0.5	36	51	0.8	265
Line 100E 875N	15.4	500	<2	<0.5	46	106	0.4	237
Line 200E 0N	4.4	11000	4	4.7	129	302	11.2	458
Line 200E 25N	2.4	1700	3	8.0	369	122	4.2	255

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	100	2	0.5	1	5	0.1	5
	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppb
Line 200E 50N	1.7	1400	3	6.9	36	46	2.2	263
Line 200E 75N	1.7	2500	<2	<0.5	66	98	2.3	374
Line 200E 100N	3.4	5400	2	5.7	18	81	11.2	774
Line 200E 125N	6.7	800	3	21.9	19	105	9.9	471
Line 200E 150N	1.8	900	3	1.1	46	85	2.6	235
Line 200E 175N	42.2	1500	<2	<0.5	10	59	0.1	27
*Rep Line 0 0N	25.4	19300	4	<0.5	3	60	0.9	269
*Rep Line 100E 425N	6.2	1000	<2	<0.5	177	249	1.2	140
*Rep Line 200E 125N	6.6	1000	3	19.7	19	101	10.0	418
*Std MMISRM24	10.5	200	19	<0.5	17	95	0.5	157
*Std MMISRM19	194	5200	7	<0.5	17	2070	0.4	779
*Blk BLANK	<0.5	<100	<2	<0.5	<1	<5	<0.1	<5
*Blk BLANK	<0.5	<100	<2	<0.5	<1	<5	<0.1	<5

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Element Method Det.Lim. Units	Pd GE_MMI_M 1 ppb	Pr GE_MMI_M 0.5 ppb	Pt GE_MMI_M 0.1 ppb	Rb GE_MMI_M 1 ppb	Sb GE_MMI_M 0.5 ppb	Sc GE_MMI_M 5 ppb	Sm GE_MMI_M 1 ppb	Sn GE_MMI_M 1 ppb
Line 0 0N	<1	0.6	<0.1	12	2.3	<5	<1	<1
Line 0 25N	<1	1.5	<0.1	17	0.7	<5	2	<1
Line 0 50N	<1	2.1	<0.1	18	<0.5	8	3	<1
Line 0 75N	<1	0.6	<0.1	10	1.1	<5	<1	<1
Line 0 100N	<1	0.7	<0.1	7	<0.5	<5	<1	<1
Line 0 125N	<1	11.7	<0.1	28	<0.5	26	11	<1
Line 0 150N	<1	5.5	<0.1	32	<0.5	25	6	<1
Line 0 175N	<1	5.0	<0.1	23	0.8	8	4	<1
Line 0 200N	<1	3.1	<0.1	41	<0.5	13	3	<1
Line 0 225N	<1	1.3	<0.1	5	<0.5	<5	2	<1
Line 0 250N	<1	2.6	<0.1	14	0.7	<5	2	<1
Line 0 275N	<1	4.3	<0.1	8	<0.5	8	4	<1
Line 0 300N	<1	3.8	<0.1	9	<0.5	<5	3	<1
Line 0 325N	<1	18.8	<0.1	19	0.6	20	18	<1
Line 0 350N	<1	1.6	<0.1	11	<0.5	<5	3	<1
Line 0 375N	<1	6.0	<0.1	28	<0.5	<5	5	<1
Line 0 400N	<1	5.3	<0.1	13	0.7	24	7	<1
Line 0 425N	<1	8.4	<0.1	23	<0.5	16	7	<1
Line 0 450N	<1	5.4	<0.1	13	0.7	7	4	1
Line 0 475N	<1	39.2	<0.1	33	<0.5	16	26	<1
Line 0 500N	<1	45.0	<0.1	47	<0.5	38	41	<1
Line 0 525N	<1	20.2	<0.1	64	<0.5	33	14	2
Line 0 550N	<1	12.1	<0.1	51	<0.5	20	10	<1
Line 0 575N	<1	6.5	<0.1	160	<0.5	29	5	3
Line 0 600N	<1	17.6	<0.1	48	<0.5	39	15	<1
Line 0 600NB	<1	10.7	<0.1	52	0.6	32	9	1
Line 0 625N	<1	13.8	<0.1	65	1.0	34	10	2
Line 0 650N	<1	6.1	<0.1	24	1.2	32	4	6
Line 0 650NB	<1	9.2	<0.1	73	1.4	54	6	14
Line 0 675N	<1	24.4	<0.1	76	0.9	44	20	1
Line 0 700N	<1	<0.5	<0.1	105	0.8	16	<1	1
Line 0 700NB	<1	40.4	<0.1	122	0.6	49	36	<1
Line 0 725N	<1	5.9	<0.1	12	1.6	29	5	11
Line 0 750N	<1	5.5	<0.1	7	0.9	29	4	5
Line 0 775N	<1	12.8	<0.1	74	1.3	37	12	<1
Line 0 800N	<1	3.9	<0.1	18	1.6	25	3	6
Line 0 825N	<1	78.5	<0.1	44	0.8	38	53	3
Line 0 850N	<1	75.0	<0.1	47	1.0	39	48	2
Line 0 875N	<1	35.1	<0.1	43	<0.5	43	31	<1
Line 100E 0N	<1	12.2	<0.1	44	0.6	46	12	<1

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Element Method Det.Lim. Units	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 100E 25N	<1	11.9	<0.1	49	0.5	51	15	1
Line 100E 50N	<1	42.8	<0.1	70	<0.5	10	33	<1
Line 100E 75N	<1	53.7	<0.1	57	0.6	19	38	<1
Line 100E 100N	<1	18.7	<0.1	54	1.1	55	15	<1
Line 100E 125N	<1	3.5	<0.1	41	0.6	34	3	1
Line 100E 150N	<1	196	<0.1	142	1.4	184	198	<1
Line 100E 175N	<1	186	<0.1	96	1.0	76	134	<1
Line 100E 200N	<1	29.6	<0.1	107	0.8	28	28	<1
Line 100E 225N	<1	20.7	<0.1	74	0.9	49	21	<1
Line 100E 250N	<1	90.8	<0.1	125	<0.5	51	70	<1
Line 100E 275N	<1	62.6	<0.1	180	<0.5	93	44	2
Line 100E 300N	<1	24.8	<0.1	20	<0.5	54	18	2
Line 100E 325N	<1	12.1	<0.1	9	<0.5	38	14	<1
Line 100E 350N	<1	10.9	<0.1	24	<0.5	38	11	<1
Line 100E 375N	<1	39.7	<0.1	20	<0.5	43	34	<1
Line 100E 400N	<1	37.3	<0.1	16	<0.5	43	39	<1
Line 100E 425N	<1	44.3	<0.1	24	<0.5	31	34	<1
Line 100E 450N	<1	2.9	<0.1	45	<0.5	28	3	<1
Line 100E 475N	<1	20.2	<0.1	173	<0.5	31	17	<1
Line 100E 500N	<1	10.0	<0.1	240	<0.5	30	9	<1
Line 100E 525N	<1	6.8	<0.1	8	<0.5	28	6	<1
Line 100E 525NB	<1	5.3	<0.1	20	<0.5	32	5	2
Line 100E 550N	<1	2.9	<0.1	54	<0.5	16	2	3
Line 100E 575N	<1	17.3	<0.1	65	<0.5	27	16	<1
Line 100E 575NB	<1	6.2	<0.1	45	<0.5	23	5	<1
Line 100E 600N	<1	3.2	<0.1	19	<0.5	14	2	2
Line 100E 625N	<1	4.4	<0.1	95	<0.5	27	4	3
Line 100E 625NB	<1	12.0	<0.1	67	0.8	35	10	6
Line 100E 650N	<1	9.6	<0.1	22	1.4	25	7	7
Line 100E 675N	<1	16.3	<0.1	83	<0.5	30	14	<1
Line 100E 700N	<1	5.7	<0.1	30	1.1	33	4	8
Line 100E 725N	<1	11.0	<0.1	55	0.5	30	9	2
Line 100E 750N	<1	12.9	<0.1	130	0.6	33	11	2
Line 100E 775N	<1	9.5	<0.1	51	1.4	30	7	5
Line 100E 800N	<1	6.4	<0.1	139	<0.5	25	6	<1
Line 100E 825N	<1	1.7	<0.1	51	<0.5	27	1	<1
Line 100E 850N	<1	7.9	<0.1	25	<0.5	14	9	<1
Line 100E 875N	<1	9.3	<0.1	9	<0.5	12	11	<1
Line 200E 0N	<1	33.4	<0.1	197	<0.5	44	27	<1
Line 200E 25N	<1	97.7	<0.1	77	<0.5	65	75	<1

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Element Method Det.Lim. Units	Pd GE_MMI_M 1 ppb	Pr GE_MMI_M 0.5 ppb	Pt GE_MMI_M 0.1 ppb	Rb GE_MMI_M 1 ppb	Sb GE_MMI_M 0.5 ppb	Sc GE_MMI_M 5 ppb	Sm GE_MMI_M 1 ppb	Sn GE_MMI_M 1 ppb
Line 200E 50N	<1	8.1	<0.1	170	<0.5	34	9	1
Line 200E 75N	<1	15.8	<0.1	209	<0.5	35	15	<1
Line 200E 100N	<1	3.9	<0.1	156	<0.5	21	4	<1
Line 200E 125N	<1	4.8	<0.1	122	<0.5	35	4	6
Line 200E 150N	<1	10.6	<0.1	170	<0.5	29	10	<1
Line 200E 175N	<1	1.6	<0.1	61	<0.5	<5	3	<1
*Rep Line 0 0N	<1	0.7	<0.1	11	1.8	<5	<1	<1
*Rep Line 100E 425N	<1	41.7	<0.1	24	<0.5	30	34	<1
*Rep Line 200E 125N	<1	4.5	<0.1	125	<0.5	32	4	5
*Std MMISRM24	5	3.9	2.5	126	<0.5	<5	4	<1
*Std MMISRM19	<1	2.4	<0.1	194	0.9	10	8	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	6	<1	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1

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	10	1	0.1	10	0.5	10	0.1	0.5
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Line 0 0N	400	<1	0.1	<10	1.0	60	0.4	1.4
Line 0 25N	360	<1	0.3	<10	1.9	110	0.1	2.8
Line 0 50N	540	<1	0.6	<10	6.0	150	0.1	14.1
Line 0 75N	560	<1	<0.1	<10	0.7	40	0.1	1.7
Line 0 100N	450	<1	0.1	<10	0.7	50	0.1	1.4
Line 0 125N	630	<1	2.1	<10	18.9	190	0.4	54.5
Line 0 150N	540	<1	1.2	<10	14.3	220	0.2	68.0
Line 0 175N	550	<1	0.6	<10	5.9	130	0.1	31.8
Line 0 200N	340	<1	0.5	<10	9.3	200	0.2	22.4
Line 0 225N	650	<1	0.2	<10	1.1	30	<0.1	2.8
Line 0 250N	290	<1	0.3	<10	3.6	120	<0.1	2.1
Line 0 275N	580	<1	0.6	<10	2.7	90	0.1	9.6
Line 0 300N	420	<1	0.3	<10	4.3	110	0.1	4.2
Line 0 325N	300	<1	2.7	<10	15.8	220	0.2	10.5
Line 0 350N	500	<1	0.6	<10	2.5	80	<0.1	6.1
Line 0 375N	190	<1	0.8	<10	3.9	50	<0.1	2.7
Line 0 400N	290	<1	1.6	<10	8.2	190	0.1	21.9
Line 0 425N	190	<1	1.0	<10	11.3	170	0.2	6.4
Line 0 450N	160	<1	0.7	<10	6.4	290	<0.1	8.3
Line 0 475N	310	<1	2.5	<10	18.1	390	0.2	8.2
Line 0 500N	310	<1	5.1	<10	27.4	970	0.3	8.4
Line 0 525N	110	<1	1.9	<10	17.3	3140	0.3	7.2
Line 0 550N	<10	<1	1.1	<10	5.0	370	0.1	2.7
Line 0 575N	100	<1	0.7	<10	13.3	2030	0.2	2.8
Line 0 600N	20	<1	1.7	<10	6.4	400	0.1	3.1
Line 0 600NB	20	<1	1.2	<10	7.6	2010	0.1	2.8
Line 0 625N	70	<1	1.3	<10	14.6	1930	0.2	3.8
Line 0 650N	110	<1	0.6	<10	12.5	4920	0.4	3.0
Line 0 650NB	190	3	0.8	<10	24.4	20000	0.4	4.1
Line 0 675N	40	<1	2.5	<10	16.7	1240	0.2	4.4
Line 0 700N	210	<1	<0.1	<10	8.0	200	0.6	1.3
Line 0 700NB	30	<1	4.5	<10	11.3	560	0.3	5.0
Line 0 725N	100	<1	0.7	<10	18.3	8110	0.2	3.8
Line 0 750N	90	<1	0.5	<10	19.8	3760	<0.1	3.2
Line 0 775N	<10	<1	1.4	<10	14.8	530	0.1	4.8
Line 0 800N	80	<1	0.4	<10	13.6	4980	0.1	2.2
Line 0 825N	410	<1	5.4	<10	28.0	2350	0.2	10.1
Line 0 850N	350	<1	4.9	<10	25.1	2070	0.3	8.9
Line 0 875N	150	<1	5.1	<10	18.7	1060	0.1	11.0
Line 100E 0N	680	<1	2.6	<10	24.1	420	0.4	20.3

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Line 100E 25N	230	<1	2.4	<10	29.0	1330	0.5	7.4
Line 100E 50N	830	<1	3.6	<10	63.9	140	0.3	11.0
Line 100E 75N	630	<1	3.8	<10	68.6	220	0.2	11.8
Line 100E 100N	430	<1	1.9	30	34.9	690	0.4	68.8
Line 100E 125N	120	<1	0.5	30	18.1	2380	0.2	3.9
Line 100E 150N	1000	<1	32.0	40	67.8	210	0.2	26.7
Line 100E 175N	790	<1	17.0	30	115	200	0.3	19.2
Line 100E 200N	670	<1	4.0	10	75.6	90	0.2	12.8
Line 100E 225N	410	<1	3.5	<10	29.9	440	0.4	40.7
Line 100E 250N	330	<1	8.5	<10	62.6	1540	0.4	8.5
Line 100E 275N	210	<1	4.8	<10	64.0	5170	0.8	10.9
Line 100E 300N	170	<1	2.2	<10	32.9	3970	0.1	12.4
Line 100E 325N	170	<1	3.5	<10	24.0	820	<0.1	13.0
Line 100E 350N	120	<1	1.9	<10	27.6	810	0.1	12.0
Line 100E 375N	150	<1	4.4	<10	33.4	1400	0.1	10.7
Line 100E 400N	170	<1	6.2	<10	38.9	1030	<0.1	22.3
Line 100E 425N	230	<1	3.9	<10	23.8	470	<0.1	35.8
Line 100E 450N	380	<1	0.5	<10	8.3	210	0.2	2.3
Line 100E 475N	70	<1	2.0	<10	10.0	830	0.2	4.9
Line 100E 500N	20	<1	1.2	<10	11.3	1540	0.2	4.0
Line 100E 525N	170	<1	0.8	<10	32.4	2190	<0.1	4.6
Line 100E 525NB	190	<1	0.7	<10	19.6	1680	0.3	3.8
Line 100E 550N	120	<1	0.3	<10	11.1	2120	0.2	2.6
Line 100E 575N	40	<1	2.0	<10	14.9	1100	0.1	3.6
Line 100E 575NB	50	<1	0.7	<10	11.3	2910	0.2	3.1
Line 100E 600N	120	<1	0.3	<10	6.1	3160	0.1	1.5
Line 100E 625N	290	<1	0.6	<10	7.5	5760	0.3	2.1
Line 100E 625NB	90	<1	1.2	<10	19.2	8880	0.2	3.9
Line 100E 650N	220	<1	1.0	<10	17.6	6010	0.2	3.9
Line 100E 675N	20	<1	1.7	<10	16.4	860	0.1	4.0
Line 100E 700N	130	<1	0.6	<10	11.3	6810	0.2	2.9
Line 100E 725N	40	<1	1.1	<10	17.1	3410	0.3	4.8
Line 100E 750N	20	<1	1.4	<10	22.8	4980	0.3	4.7
Line 100E 775N	40	<1	0.8	<10	20.4	6460	0.3	4.3
Line 100E 800N	80	<1	0.9	<10	17.8	2560	0.4	3.7
Line 100E 825N	310	<1	0.1	<10	14.0	640	<0.1	10.4
Line 100E 850N	470	<1	1.2	<10	8.7	390	<0.1	8.1
Line 100E 875N	500	<1	2.6	<10	4.3	20	<0.1	39.7
Line 200E 0N	130	<1	3.2	<10	28.9	1800	0.5	7.3
Line 200E 25N	80	<1	9.1	<10	105	2010	0.5	14.1

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Element Method Det.Lim. Units	Sr GE_MMI_M 10 ppb	Ta GE_MMI_M 1 ppb	Tb GE_MMI_M 0.1 ppb	Te GE_MMI_M 10 ppb	Th GE_MMI_M 0.5 ppb	Ti GE_MMI_M 10 ppb	Tl GE_MMI_M 0.1 ppb	U GE_MMI_M 0.5 ppb
Line 200E 50N	100	<1	1.2	<10	11.2	4350	0.2	4.9
Line 200E 75N	80	<1	1.7	<10	7.2	820	0.2	3.0
Line 200E 100N	100	<1	0.7	<10	12.3	2520	0.2	3.9
Line 200E 125N	220	<1	0.6	<10	13.6	11200	0.3	4.2
Line 200E 150N	50	<1	1.3	<10	23.5	1060	0.4	4.9
Line 200E 175N	340	<1	0.5	<10	3.9	30	0.7	1.6
*Rep Line 0 0N	390	<1	0.1	<10	1.0	60	0.3	1.7
*Rep Line 100E 425N	230	<1	3.9	<10	20.8	450	<0.1	38.2
*Rep Line 200E 125N	210	<1	0.6	<10	12.7	9760	0.3	4.1
*Std MMISRM24	1430	<1	0.4	<10	10.9	20	<0.1	8.0
*Std MMISRM19	3770	<1	1.8	<10	14.5	<10	0.8	56.7
*Blk BLANK	<10	<1	<0.1	<10	<0.5	10	<0.1	<0.5
*Blk BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5

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Element Method Det.Lim. Units	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	1	0.2	10	2
	ppb	ppb	ppb	ppb	ppb
Line 0 0N	<0.5	6	1.3	1100	6
Line 0 25N	<0.5	13	1.6	580	9
Line 0 50N	<0.5	34	3.0	940	13
Line 0 75N	<0.5	4	0.5	1580	4
Line 0 100N	<0.5	7	0.8	450	6
Line 0 125N	<0.5	83	7.5	860	34
Line 0 150N	<0.5	49	4.2	370	32
Line 0 175N	<0.5	21	1.8	860	17
Line 0 200N	<0.5	19	1.8	550	33
Line 0 225N	<0.5	10	0.8	190	4
Line 0 250N	<0.5	9	0.9	460	12
Line 0 275N	<0.5	23	1.9	260	11
Line 0 300N	<0.5	10	1.0	880	12
Line 0 325N	<0.5	88	7.6	1060	19
Line 0 350N	<0.5	32	3.3	490	9
Line 0 375N	<0.5	19	2.3	780	6
Line 0 400N	<0.5	72	6.6	770	9
Line 0 425N	0.6	29	4.4	1070	15
Line 0 450N	<0.5	26	4.4	570	10
Line 0 475N	<0.5	72	5.6	370	22
Line 0 500N	0.6	145	11.1	540	39
Line 0 525N	0.8	47	3.4	290	47
Line 0 550N	<0.5	40	3.7	60	11
Line 0 575N	0.7	23	2.4	460	45
Line 0 600N	<0.5	47	4.8	180	12
Line 0 600NB	<0.5	34	3.2	180	27
Line 0 625N	<0.5	32	2.9	440	42
Line 0 650N	1.1	17	1.5	600	59
Line 0 650NB	3.9	24	2.5	650	116
Line 0 675N	<0.5	64	4.8	250	40
Line 0 700N	<0.5	4	0.7	1450	14
Line 0 700NB	<0.5	132	10.0	590	24
Line 0 725N	1.7	23	2.0	810	54
Line 0 750N	1.2	17	1.5	290	57
Line 0 775N	<0.5	36	3.6	150	32
Line 0 800N	1.3	11	1.1	300	55
Line 0 825N	1.0	124	8.2	130	37
Line 0 850N	0.8	124	7.8	180	35
Line 0 875N	<0.5	173	13.6	190	19
Line 100E 0N	<0.5	126	12.6	170	74

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Element Method Det.Lim. Units	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	1	0.2	10	2
	ppb	ppb	ppb	ppb	ppb
Line 100E 25N	0.8	71	6.3	1100	63
Line 100E 50N	<0.5	102	8.3	50	78
Line 100E 75N	<0.5	111	8.7	70	70
Line 100E 100N	3.0	58	5.6	450	90
Line 100E 125N	2.6	19	3.4	310	62
Line 100E 150N	4.9	1250	117	300	109
Line 100E 175N	1.8	616	52.3	130	141
Line 100E 200N	1.7	119	12.6	650	72
Line 100E 225N	1.3	140	11.5	680	78
Line 100E 250N	1.2	245	17.2	160	122
Line 100E 275N	2.4	120	9.0	420	245
Line 100E 300N	1.7	62	4.7	190	79
Line 100E 325N	1.1	156	13.5	460	27
Line 100E 350N	0.8	59	7.0	540	30
Line 100E 375N	<0.5	130	10.3	270	45
Line 100E 400N	<0.5	221	17.2	150	52
Line 100E 425N	<0.5	124	9.9	60	39
Line 100E 450N	<0.5	24	5.9	730	11
Line 100E 475N	<0.5	49	3.5	150	29
Line 100E 500N	<0.5	30	2.6	280	32
Line 100E 525N	<0.5	26	2.0	140	33
Line 100E 525NB	<0.5	21	3.2	1710	37
Line 100E 550N	<0.5	11	1.0	370	34
Line 100E 575N	<0.5	49	3.8	290	33
Line 100E 575NB	<0.5	19	2.0	290	41
Line 100E 600N	<0.5	11	1.0	470	49
Line 100E 625N	<0.5	19	2.3	1700	38
Line 100E 625NB	1.4	35	3.3	840	84
Line 100E 650N	0.7	27	2.1	360	70
Line 100E 675N	<0.5	42	3.5	90	40
Line 100E 700N	1.3	16	1.3	400	72
Line 100E 725N	<0.5	26	2.2	140	62
Line 100E 750N	<0.5	33	2.9	260	77
Line 100E 775N	<0.5	22	1.8	250	80
Line 100E 800N	<0.5	24	2.3	1400	48
Line 100E 825N	<0.5	5	2.8	<10	14
Line 100E 850N	<0.5	40	3.7	330	13
Line 100E 875N	0.5	144	9.5	300	5
Line 200E 0N	<0.5	83	6.7	3000	67
Line 200E 25N	<0.5	208	13.8	80	89

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Element Method Det.Lim. Units	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	1	0.2	10	2
	ppb	ppb	ppb	ppb	ppb
Line 200E 50N	<0.5	32	3.1	200	44
Line 200E 75N	<0.5	61	4.6	590	26
Line 200E 100N	<0.5	22	2.0	1700	45
Line 200E 125N	0.8	19	1.9	780	92
Line 200E 150N	<0.5	35	2.8	190	58
Line 200E 175N	<0.5	18	1.3	40	12
*Rep Line 0 0N	<0.5	7	1.1	1000	6
*Rep Line 100E 425N	<0.5	132	10.9	50	35
*Rep Line 200E 125N	0.9	19	1.7	880	82
*Std MMISRM24	<0.5	14	0.7	210	17
*Std MMISRM19	<0.5	62	4.2	1980	12
*Blk BLANK	<0.5	<1	<0.2	<10	<2
*Blk BLANK	<0.5	<1	<0.2	<10	<2

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Certificate of Analysis
Work Order : VC183057
[Report File No.: 0000031627]

Date: September 21, 2018

To: Charles Gryba
COD SGS MINERALS - GEOCHEM VANCOUVER
 Central Timmins Exploration Corp.
 200 Bay Street, Suite 2350
 Toronto
 ONT M5J 2J2

P.O. No.: Central Timmins Exploration Corp.
Project No.: -
Samples: 70
Received: Aug 21, 2018
Pages: Page 1 to 15
 (Inclusive of Cover Sheet)


Methods Summary

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

Storage: Pulp & Reject

REJECT STORAGE : PAID STORE 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

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppm	GE_MMI_M 10 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 2 ppm	GE_MMI_M 1 ppb
Line 200E 200N	1.5	31	10	0.1	720	<0.5	391	6
Line 200E 225N	4.7	87	<10	0.2	2120	<0.5	729	14
Line 200E 250N	7.6	324	20	<0.1	1090	1.0	27	36
Line 200E 275N	9.9	271	20	0.1	1260	1.4	68	19
Line 200E 300N	5.6	198	30	<0.1	310	0.8	27	17
Line 200E 325N	5.5	152	20	0.2	1410	1.1	265	12
Line 200E 350N	9.8	259	30	<0.1	1070	1.1	42	11
Line 200E 375N	10.7	390	40	<0.1	1330	0.9	26	14
Line 200E 375NB	8.5	196	50	<0.1	1120	1.8	221	41
Line 200E 400N	13.7	392	50	<0.1	1220	0.9	30	11
Line 200E 425N	18.6	277	40	<0.1	810	1.9	40	19
Line 200E 425NB	9.6	318	20	<0.1	1190	0.6	71	17
Line 200E 450N	15.6	196	20	<0.1	720	1.0	20	2
Line 200E 475N	13.1	300	10	<0.1	670	<0.5	12	11
Line 200E 475NB	6.6	156	40	<0.1	920	1.9	219	58
Line 200E 500N	7.2	171	30	0.1	620	0.7	177	18
Line 200E 525N	11.1	341	40	0.1	1490	1.5	24	28
Line 200E 550N	1.2	221	20	<0.1	560	7.8	16	99
Line 200E 575N	16.1	239	30	0.1	640	1.0	76	14
Line 200E 600N	9.9	306	30	<0.1	400	<0.5	20	4
Line 200E 625N	1.7	78	20	0.1	580	1.6	175	25
Line 200E 650N	16.3	321	40	0.1	730	0.7	35	13
Line 200E 675N	6.9	187	100	0.1	870	3.4	114	24
Line 200E 700N	0.7	139	20	<0.1	200	2.0	5	2
Line 200E 725N	9.7	167	50	0.1	560	1.6	32	8
Line 200E 750N	13.7	172	30	<0.1	820	1.2	137	9
Line 200E 775N	17.8	162	20	<0.1	720	1.2	142	15
Line 200E 800N	1.5	63	20	<0.1	660	1.3	123	86
Line 200E 825N	31.8	150	10	0.9	230	<0.5	164	19
Line 200E 850N	10.2	170	40	0.1	1100	2.4	86	8
Line 200E 875N	13.0	215	30	<0.1	1250	1.3	150	16
Line 300E 0N	10.0	260	<10	<0.1	930	0.5	15	19
Line 300E 25N	7.7	304	50	<0.1	2160	2.0	98	7
Line 300E 50N	4.3	188	<10	<0.1	320	<0.5	33	12
Line 300E 75N	1.9	265	100	<0.1	3090	2.5	84	9
Line 300E 100N	3.9	174	110	<0.1	1790	5.0	69	17
Line 300E 125N	20.0	171	30	0.1	620	1.1	134	24
Line 300E 150N	22.7	136	30	<0.1	960	1.1	139	42
Line 300E 175N	10.0	210	10	0.1	770	0.6	129	70
Line 300E 200N	11.8	320	20	<0.1	390	<0.5	6	17

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppm	GE_MMI_M 10 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 2 ppm	GE_MMI_M 1 ppb
Line 300E 225N	4.5	209	30	<0.1	750	0.7	11	8
Line 300E 250N	17.3	284	10	<0.1	450	<0.5	50	37
Line 300E 275N	5.8	107	10	0.1	620	<0.5	334	36
Line 300E 300N	2.6	249	20	<0.1	940	0.8	93	18
Line 300E 325N	3.4	300	20	<0.1	550	<0.5	5	11
Line 300E 350N	3.3	262	10	<0.1	480	<0.5	<2	11
Line 300E 375N	0.9	290	30	<0.1	670	1.6	8	10
Line 300E 375NB	1.4	311	30	<0.1	450	1.0	4	12
Line 300E 400N	2.7	279	60	<0.1	1060	1.9	5	14
Line 300E 425N	0.8	314	80	<0.1	960	1.9	12	5
Line 300E 425NB	1.5	315	30	<0.1	570	<0.5	<2	9
Line 300E 450N	2.1	115	30	<0.1	830	1.6	2	10
Line 300E 475N	1.5	204	30	0.1	760	1.7	6	5
Line 300E 475NB	2.2	344	40	<0.1	710	0.6	8	15
Line 300E 500N	1.0	302	50	<0.1	500	3.2	11	11
Line 300E 525N	3.0	171	50	<0.1	590	2.6	19	16
Line 300E 550N	2.2	206	30	<0.1	5270	10.5	73	22
Line 300E 575N	3.3	297	60	<0.1	1970	3.4	8	10
Line 300E 600N	7.1	141	30	<0.1	1390	2.5	55	14
Line 300E 625N	5.4	326	60	<0.1	1720	3.4	21	8
Line 300E 650N	5.4	198	50	0.1	1150	2.9	23	9
Line 300E 675N	11.7	187	30	0.1	1410	2.0	58	6
Line 300E 700N	14.4	290	30	<0.1	2140	1.5	27	5
Line 300E 725N	6.6	182	30	<0.1	870	1.9	125	11
Line 300E 750N	3.3	215	30	0.1	600	3.0	113	21
Line 300E 775N	4.0	24	<10	0.2	490	<0.5	477	4
Line 300E 800N	6.8	30	<10	0.2	710	<0.5	418	14
Line 300E 825N	0.6	182	40	<0.1	320	10.1	102	31
Line 300E 850N	7.1	11	<10	0.8	560	<0.5	557	50
Line 300E 875N	4.6	14	20	0.1	510	<0.5	421	16
*Rep Line 200E 225N	5.6	114	<10	0.2	2100	<0.5	609	17
*Rep Line 200E 725N	11.8	179	50	0.2	580	1.6	31	9
*Rep Line 300E 500N	1.2	224	40	<0.1	520	2.6	10	10
*Std MMISRM24	21.6	38	<10	4.0	90	<0.5	64	6
*Std MMISRM19	25.9	23	10	5.6	1720	<0.5	792	38
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1

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Element Method Det.Lim. Units	Ce GE_MMI_M 2 ppb	Co GE_MMI_M 1 ppb	Cr GE_MMI_M 100 ppb	Cs GE_MMI_M 0.2 ppb	Cu GE_MMI_M 10 ppb	Dy GE_MMI_M 0.5 ppb	Er GE_MMI_M 0.2 ppb	Eu GE_MMI_M 0.2 ppb
Line 200E 200N	274	132	<100	0.7	1370	11.1	5.9	4.0
Line 200E 225N	343	25	100	0.2	430	36.9	46.1	8.0
Line 200E 250N	106	52	100	4.9	190	18.0	8.7	4.1
Line 200E 275N	122	53	300	4.3	280	11.0	5.9	3.8
Line 200E 300N	47	64	<100	1.8	530	6.6	4.8	1.3
Line 200E 325N	802	129	200	3.3	420	56.6	28.4	17.0
Line 200E 350N	106	59	400	5.0	220	10.0	5.8	3.4
Line 200E 375N	172	106	300	6.1	280	14.6	7.4	4.7
Line 200E 375NB	122	69	300	3.4	200	8.7	5.2	2.5
Line 200E 400N	112	63	500	8.1	230	12.4	6.8	3.3
Line 200E 425N	94	57	400	3.3	340	9.9	5.3	2.7
Line 200E 425NB	81	44	200	3.9	130	11.6	6.4	2.9
Line 200E 450N	53	45	200	5.5	360	3.7	2.0	1.3
Line 200E 475N	127	31	200	5.8	110	18.6	8.9	4.6
Line 200E 475NB	107	56	300	6.1	210	9.0	5.1	2.7
Line 200E 500N	48	76	200	2.9	140	4.1	2.4	1.1
Line 200E 525N	104	118	300	4.1	320	9.2	4.6	3.2
Line 200E 550N	25	112	<100	2.1	270	4.9	4.1	0.8
Line 200E 575N	291	152	200	2.9	540	28.0	13.9	9.5
Line 200E 600N	88	68	200	1.6	220	14.8	7.9	3.9
Line 200E 625N	81	442	<100	2.5	820	6.5	3.8	1.9
Line 200E 650N	54	96	300	3.3	210	10.1	5.8	2.5
Line 200E 675N	274	284	300	3.7	1780	12.1	6.4	5.6
Line 200E 700N	10	26	<100	0.6	190	1.2	1.2	<0.2
Line 200E 725N	203	3450	100	9.0	1210	13.1	7.0	4.1
Line 200E 750N	610	51	200	4.9	570	24.4	10.5	9.7
Line 200E 775N	591	98	200	5.2	750	22.8	10.1	8.7
Line 200E 800N	66	41	<100	1.7	410	5.4	3.0	1.8
Line 200E 825N	99	31	<100	4.7	350	20.6	11.0	8.0
Line 200E 850N	143	105	400	7.2	260	11.6	5.8	4.0
Line 200E 875N	92	84	200	3.3	200	10.6	5.4	3.8
Line 300E 0N	71	42	<100	5.8	100	26.9	17.1	2.8
Line 300E 25N	290	262	300	8.5	360	17.7	9.4	4.7
Line 300E 50N	49	19	<100	7.0	120	7.4	4.0	2.4
Line 300E 75N	177	65	500	5.1	210	6.4	3.1	2.3
Line 300E 100N	139	25	300	4.8	290	6.6	3.7	2.3
Line 300E 125N	56	43	200	3.9	180	5.6	3.1	1.6
Line 300E 150N	85	32	200	3.7	410	7.2	3.6	2.0
Line 300E 175N	40	19	100	3.6	110	6.8	3.5	1.6
Line 300E 200N	221	32	200	8.4	370	21.5	10.0	7.2

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Element Method Det.Lim. Units	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
	GE_MMI_M 2 ppb	GE_MMI_M 1 ppb	GE_MMI_M 100 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 10 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.2 ppb	GE_MMI_M 0.2 ppb
Line 300E 225N	80	75	100	6.2	210	6.2	3.2	2.0
Line 300E 250N	76	21	<100	3.8	120	9.7	4.2	3.1
Line 300E 275N	45	12	<100	2.0	170	4.5	2.4	1.5
Line 300E 300N	50	59	100	2.0	150	6.4	3.5	1.2
Line 300E 325N	69	25	100	4.3	160	6.9	3.7	2.5
Line 300E 350N	99	30	<100	4.2	50	12.8	7.2	3.6
Line 300E 375N	82	18	200	2.5	80	8.1	4.4	2.8
Line 300E 375NB	98	35	<100	3.0	70	11.2	6.2	3.4
Line 300E 400N	76	22	300	2.0	110	7.2	3.6	2.5
Line 300E 425N	66	12	400	7.1	120	5.3	3.0	2.3
Line 300E 425NB	103	16	100	5.4	30	9.9	4.9	3.5
Line 300E 450N	34	8	100	0.6	100	2.5	1.6	0.9
Line 300E 475N	73	11	300	3.0	110	6.4	3.7	2.4
Line 300E 475NB	43	18	<100	1.2	100	6.0	2.9	1.8
Line 300E 500N	85	26	300	6.8	180	9.2	5.7	2.5
Line 300E 525N	78	32	100	0.9	330	6.6	3.4	2.2
Line 300E 550N	130	31	200	1.1	620	8.3	4.4	2.7
Line 300E 575N	95	80	200	9.1	200	7.3	3.6	3.0
Line 300E 600N	56	21	200	2.3	110	4.2	2.2	1.5
Line 300E 625N	144	63	300	7.8	200	10.7	5.6	3.4
Line 300E 650N	82	28	300	3.5	170	5.9	3.1	2.2
Line 300E 675N	124	46	300	3.7	100	10.2	4.8	3.3
Line 300E 700N	339	266	300	11.4	130	12.2	5.4	4.4
Line 300E 725N	102	33	300	2.3	130	8.5	4.0	2.6
Line 300E 750N	69	42	200	1.2	80	7.3	3.4	2.4
Line 300E 775N	84	117	<100	0.3	910	4.3	2.1	1.6
Line 300E 800N	118	30	<100	0.6	1480	7.2	3.9	3.0
Line 300E 825N	75	75	200	1.3	240	7.9	3.9	2.2
Line 300E 850N	18	54	<100	<0.2	570	3.6	1.6	1.1
Line 300E 875N	62	27	<100	0.7	1490	4.5	2.5	1.6
*Rep Line 200E 225N	290	34	100	0.4	420	49.9	37.0	9.0
*Rep Line 200E 725N	215	3520	100	9.9	1200	14.7	7.1	4.3
*Rep Line 300E 500N	70	21	200	7.5	180	7.6	4.9	2.1
*Std MMISRM24	36	17	<100	10.6	320	3.1	1.3	1.1
*Std MMISRM19	22	322	<100	4.5	2230	12.6	6.7	2.7
*Blk BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2
*Blk BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2
*Blk BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_M 1 ppm	GE_MMI_M 0.5 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 200E 200N	114	2.7	15.0	<1	<0.1	5.1	103	7
Line 200E 225N	17	2.4	81.5	2	<0.1	21.7	179	3
Line 200E 250N	110	26.7	15.6	1	0.4	26.2	47	8
Line 200E 275N	340	65.9	11.6	1	0.2	30.1	70	12
Line 200E 300N	269	22.4	4.9	<1	0.2	13.9	24	11
Line 200E 325N	133	15.1	70.3	<1	0.1	19.7	308	8
Line 200E 350N	428	38.8	10.2	1	0.3	31.5	56	13
Line 200E 375N	194	55.7	15.0	2	0.4	18.1	90	21
Line 200E 375NB	189	42.9	9.6	<1	0.3	49.2	49	14
Line 200E 400N	331	62.7	11.8	2	0.4	23.7	67	30
Line 200E 425N	284	71.5	10.2	1	0.3	24.1	57	17
Line 200E 425NB	200	56.0	11.0	<1	0.4	19.1	46	19
Line 200E 450N	490	29.0	4.3	1	0.2	32.7	39	12
Line 200E 475N	143	24.6	17.2	<1	0.2	6.8	71	8
Line 200E 475NB	136	32.5	10.9	<1	0.5	55.6	46	18
Line 200E 500N	122	26.1	4.2	<1	0.2	54.2	20	20
Line 200E 525N	185	61.1	10.1	3	0.4	25.9	53	16
Line 200E 550N	141	30.2	3.3	<1	0.7	43.5	18	8
Line 200E 575N	253	41.7	32.7	<1	0.2	18.3	161	15
Line 200E 600N	189	23.1	12.9	1	0.1	5.9	43	5
Line 200E 625N	141	22.2	7.0	<1	0.5	48.0	35	10
Line 200E 650N	248	46.4	9.2	2	0.3	21.1	37	11
Line 200E 675N	354	60.8	19.2	2	0.5	38.3	140	19
Line 200E 700N	295	13.1	0.9	<1	0.2	12.4	6	5
Line 200E 725N	462	16.8	14.7	<1	0.2	20.5	81	16
Line 200E 750N	164	37.0	33.3	<1	0.2	8.9	222	24
Line 200E 775N	163	31.6	30.4	<1	0.2	14.1	201	25
Line 200E 800N	161	11.8	5.9	2	1.3	43.9	21	5
Line 200E 825N	77	14.0	27.4	1	0.1	13.5	82	23
Line 200E 850N	306	118	13.5	<1	0.2	18.4	84	48
Line 200E 875N	190	109	13.3	1	0.4	33.1	64	18
Line 300E 0N	191	23.1	13.1	<1	0.2	27.2	33	31
Line 300E 25N	343	60.5	17.1	<1	0.3	32.9	112	64
Line 300E 50N	78	25.4	7.7	<1	0.1	10.6	23	2
Line 300E 75N	355	66.7	7.6	<1	0.6	16.2	54	26
Line 300E 100N	162	86.7	7.2	<1	0.4	31.5	48	32
Line 300E 125N	379	54.8	5.7	<1	0.2	22.4	37	26
Line 300E 150N	78	27.7	7.8	<1	0.3	48.3	58	17
Line 300E 175N	119	18.3	6.5	<1	0.3	96.8	28	14
Line 300E 200N	144	41.1	23.6	1	0.2	17.8	129	7

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_M 1 ppm	GE_MMI_M 0.5 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 0.5 ppm	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 300E 225N	322	18.7	6.8	2	0.2	9.5	52	4
Line 300E 250N	85	14.2	9.7	2	0.2	25.5	41	4
Line 300E 275N	55	7.7	6.0	<1	<0.1	7.5	19	12
Line 300E 300N	158	21.7	4.9	<1	0.3	30.4	22	16
Line 300E 325N	121	74.5	7.4	1	0.2	12.4	37	3
Line 300E 350N	74	26.9	10.6	1	0.2	5.5	52	1
Line 300E 375N	147	89.2	7.9	<1	0.3	13.2	48	15
Line 300E 375NB	55	37.1	11.0	<1	0.4	13.4	51	4
Line 300E 400N	171	97.2	6.9	2	0.4	16.5	44	15
Line 300E 425N	53	203	5.2	1	0.3	16.6	42	40
Line 300E 425NB	111	26.9	9.4	<1	0.2	8.2	56	<1
Line 300E 450N	33	29.0	2.7	<1	0.2	11.7	19	3
Line 300E 475N	24	114	5.9	<1	0.4	14.4	40	20
Line 300E 475NB	105	64.0	4.8	1	0.3	15.0	25	4
Line 300E 500N	61	63.6	8.6	<1	0.5	34.8	45	15
Line 300E 525N	89	35.5	7.4	1	0.6	15.8	39	6
Line 300E 550N	100	27.5	8.6	2	1.6	37.7	85	6
Line 300E 575N	185	178	7.7	1	0.5	19.1	57	41
Line 300E 600N	61	48.9	4.5	<1	0.3	15.4	38	13
Line 300E 625N	251	128	10.9	<1	0.4	18.0	94	53
Line 300E 650N	169	116	7.0	<1	0.3	16.0	53	21
Line 300E 675N	106	77.0	12.3	<1	0.4	15.0	107	22
Line 300E 700N	299	79.9	15.4	2	0.3	17.6	151	52
Line 300E 725N	131	42.3	9.1	1	0.5	15.5	68	15
Line 300E 750N	156	39.9	8.1	1	0.7	35.1	34	9
Line 300E 775N	54	1.4	6.3	<1	<0.1	8.6	37	8
Line 300E 800N	30	1.0	11.9	<1	<0.1	9.6	53	5
Line 300E 825N	173	32.1	8.0	1	1.2	40.0	31	12
Line 300E 850N	11	0.6	5.0	<1	<0.1	27.3	10	2
Line 300E 875N	41	1.5	6.3	<1	<0.1	17.0	23	12
*Rep Line 200E 225N	11	2.5	69.5	<1	<0.1	21.9	137	2
*Rep Line 200E 725N	485	18.0	16.1	<1	0.2	21.8	88	18
*Rep Line 300E 500N	61	43.0	7.2	<1	0.5	27.3	39	20
*Std MMISRM24	12	3.0	4.2	4	<0.1	12.2	14	1
*Std MMISRM19	11	0.6	13.9	1	<0.1	94.8	4	1
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	100	2	0.5	1	5	0.1	5
	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppb
Line 200E 200N	87.1	9600	7	3.3	122	316	0.2	92
Line 200E 225N	110	1900	<2	<0.5	305	352	<0.1	151
Line 200E 250N	3.5	5700	6	8.8	60	257	7.0	689
Line 200E 275N	7.7	5200	8	19.0	62	184	5.8	224
Line 200E 300N	5.1	1800	5	12.2	22	275	6.2	246
Line 200E 325N	31.6	10500	3	17.5	389	207	1.6	244
Line 200E 350N	6.1	5100	6	16.8	57	184	5.3	207
Line 200E 375N	5.4	2500	6	17.8	85	385	9.1	280
Line 200E 375NB	25.3	21300	6	31.3	46	295	5.9	647
Line 200E 400N	8.9	2000	8	22.0	58	448	8.3	258
Line 200E 425N	5.3	3400	6	27.3	48	302	9.9	307
Line 200E 425NB	11.6	4000	4	16.1	46	335	5.9	436
Line 200E 450N	5.4	500	7	15.4	26	280	4.7	71
Line 200E 475N	2.2	2400	4	9.6	77	171	3.4	293
Line 200E 475NB	26.4	23600	5	25.2	50	349	6.5	1120
Line 200E 500N	25.8	7100	6	13.0	19	163	4.4	296
Line 200E 525N	3.9	14600	6	14.9	49	196	21.9	403
Line 200E 550N	5.2	1000	3	8.7	12	213	8.9	1470
Line 200E 575N	9.9	5400	6	12.4	180	591	4.8	290
Line 200E 600N	1.7	1100	4	5.0	52	319	3.2	197
Line 200E 625N	23.5	78000	9	5.5	43	460	5.2	326
Line 200E 650N	7.2	4100	6	13.6	37	496	7.1	354
Line 200E 675N	11.4	22800	14	25.9	152	349	11.7	344
Line 200E 700N	6.1	300	3	10.0	5	34	4.1	45
Line 200E 725N	5.5	67700	10	4.4	87	622	3.7	82
Line 200E 750N	8.7	19800	11	15.5	226	255	3.8	164
Line 200E 775N	11.3	38200	11	12.6	204	373	4.1	146
Line 200E 800N	18.0	58400	4	2.9	25	230	6.8	617
Line 200E 825N	23.2	19000	4	5.5	113	843	2.9	185
Line 200E 850N	29.9	22200	8	59.8	77	97	11.2	163
Line 200E 875N	13.5	6500	7	25.7	60	171	5.5	611
Line 300E 0N	9.7	900	2	14.1	38	222	2.8	270
Line 300E 25N	29.5	16200	5	44.1	99	192	7.2	366
Line 300E 50N	0.8	600	3	3.5	30	54	2.9	358
Line 300E 75N	14.4	2800	9	40.8	45	142	18.6	739
Line 300E 100N	13.0	4400	10	58.3	43	96	12.1	600
Line 300E 125N	15.2	3800	10	25.9	31	160	3.9	201
Line 300E 150N	12.6	2000	8	17.6	43	154	26.0	358
Line 300E 175N	13.3	7300	5	7.3	26	217	3.8	499
Line 300E 200N	1.5	3300	7	16.1	113	133	5.4	165

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5 ppm	100 ppb	2 ppb	0.5 ppb	1 ppb	5 ppb	0.1 ppm	5 ppb
Line 300E 225N	2.2	900	8	8.5	37	176	3.3	121
Line 300E 250N	5.2	1600	5	5.4	41	177	3.6	333
Line 300E 275N	31.5	2400	<2	4.6	26	149	0.5	192
Line 300E 300N	16.3	2000	2	11.7	21	169	4.4	591
Line 300E 325N	1.4	600	2	8.7	35	93	13.5	303
Line 300E 350N	<0.5	300	3	3.6	54	96	4.5	341
Line 300E 375N	3.2	800	6	38.8	36	80	12.2	372
Line 300E 375NB	1.5	700	4	9.5	48	98	6.7	312
Line 300E 400N	3.0	200	6	35.9	36	116	13.0	340
Line 300E 425N	6.6	200	11	87.3	26	86	9.6	467
Line 300E 425NB	<0.5	100	3	5.0	49	52	2.4	112
Line 300E 450N	1.4	100	4	12.1	15	41	4.6	229
Line 300E 475N	4.1	200	4	49.4	35	53	13.8	376
Line 300E 475NB	2.4	1000	<2	10.8	21	134	5.7	178
Line 300E 500N	10.5	600	5	54.4	39	103	12.4	648
Line 300E 525N	4.2	700	6	15.7	38	108	14.8	566
Line 300E 550N	4.5	400	5	11.4	52	215	17.4	1860
Line 300E 575N	8.3	3100	7	52.1	45	86	16.8	433
Line 300E 600N	5.7	700	5	28.0	28	92	9.1	300
Line 300E 625N	12.8	1900	9	57.1	64	180	11.3	445
Line 300E 650N	7.4	900	8	50.5	38	186	13.8	378
Line 300E 675N	8.1	5500	8	38.1	67	143	12.4	420
Line 300E 700N	11.4	146000	13	31.4	88	153	7.6	75
Line 300E 725N	10.9	1200	6	20.6	50	221	10.4	637
Line 300E 750N	11.8	2400	5	14.5	37	173	5.2	1350
Line 300E 775N	87.4	8000	6	3.1	48	237	0.4	36
Line 300E 800N	107	800	4	1.3	76	354	0.3	50
Line 300E 825N	18.3	1100	4	15.8	37	139	10.8	3700
Line 300E 850N	93.1	3600	<2	<0.5	16	291	0.3	102
Line 300E 875N	94.9	3700	6	2.0	36	393	0.6	77
*Rep Line 200E 225N	91.4	2800	<2	0.5	280	333	0.2	159
*Rep Line 200E 725N	6.2	72000	10	4.5	89	658	3.8	83
*Rep Line 300E 500N	7.2	500	5	43.6	32	100	11.8	603
*Std MMISRM24	9.9	200	24	<0.5	24	145	0.6	205
*Std MMISRM19	193	6700	9	<0.5	18	2090	0.5	967
*Blk BLANK	<0.5	<100	<2	<0.5	<1	<5	0.1	<5
*Blk BLANK	<0.5	<100	<2	<0.5	<1	<5	0.2	<5
*Blk BLANK	<0.5	<100	<2	<0.5	<1	<5	<0.1	<5

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Element Method Det.Lim. Units	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 0.1 ppb	GE_MMI_M 1 ppb	GE_MMI_M 0.5 ppb	GE_MMI_M 5 ppb	GE_MMI_M 1 ppb	GE_MMI_M 1 ppb
Line 200E 200N	<1	29.9	<0.1	100	<0.5	32	20	<1
Line 200E 225N	<1	63.9	<0.1	60	<0.5	72	69	<1
Line 200E 250N	<1	13.7	<0.1	152	<0.5	56	15	2
Line 200E 275N	<1	15.8	<0.1	166	<0.5	66	13	3
Line 200E 300N	<1	5.6	<0.1	68	<0.5	67	5	2
Line 200E 325N	<1	91.8	<0.1	212	<0.5	74	77	<1
Line 200E 350N	<1	13.8	<0.1	217	0.5	73	12	2
Line 200E 375N	<1	21.1	<0.1	305	<0.5	72	17	3
Line 200E 375NB	<1	11.3	<0.1	468	<0.5	52	10	4
Line 200E 400N	<1	14.3	<0.1	270	0.8	84	12	3
Line 200E 425N	<1	11.8	<0.1	167	<0.5	75	10	6
Line 200E 425NB	<1	10.9	<0.1	257	<0.5	64	11	2
Line 200E 450N	<1	6.9	<0.1	208	<0.5	37	5	2
Line 200E 475N	<1	18.1	<0.1	176	<0.5	55	17	<1
Line 200E 475NB	<1	11.9	<0.1	503	<0.5	60	10	5
Line 200E 500N	<1	4.5	<0.1	334	<0.5	45	5	2
Line 200E 525N	<1	12.3	<0.1	238	1.5	60	10	3
Line 200E 550N	<1	3.1	<0.1	212	<0.5	69	3	4
Line 200E 575N	<1	42.9	<0.1	51	<0.5	61	37	3
Line 200E 600N	<1	11.9	<0.1	32	<0.5	40	12	<1
Line 200E 625N	<1	10.0	<0.1	100	<0.5	41	8	4
Line 200E 650N	<1	8.4	<0.1	60	<0.5	65	8	3
Line 200E 675N	<1	36.5	<0.1	60	1.2	69	26	10
Line 200E 700N	<1	1.0	<0.1	7	<0.5	19	<1	3
Line 200E 725N	<1	21.6	<0.1	113	<0.5	49	17	1
Line 200E 750N	<1	55.9	<0.1	79	<0.5	63	42	2
Line 200E 775N	<1	50.8	<0.1	81	<0.5	60	36	3
Line 200E 800N	<1	6.3	<0.1	120	<0.5	32	6	5
Line 200E 825N	<1	24.7	<0.1	106	<0.5	43	26	1
Line 200E 850N	<1	18.8	<0.1	174	<0.5	82	15	12
Line 200E 875N	<1	14.9	<0.1	295	0.5	48	13	6
Line 300E 0N	<1	8.6	<0.1	150	<0.5	81	10	2
Line 300E 25N	<1	25.3	<0.1	359	0.6	120	20	6
Line 300E 50N	<1	6.4	<0.1	205	<0.5	37	7	<1
Line 300E 75N	<1	11.7	<0.1	153	1.6	63	9	6
Line 300E 100N	<1	10.6	<0.1	143	0.9	85	8	21
Line 300E 125N	<1	7.4	<0.1	239	<0.5	58	6	4
Line 300E 150N	<1	11.6	<0.1	278	<0.5	62	9	8
Line 300E 175N	<1	6.2	<0.1	340	<0.5	27	6	1
Line 300E 200N	<1	28.1	<0.1	187	<0.5	59	23	2

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Element Method Det.Lim. Units	Pd GE_MMI_M 1 ppb	Pr GE_MMI_M 0.5 ppb	Pt GE_MMI_M 0.1 ppb	Rb GE_MMI_M 1 ppb	Sb GE_MMI_M 0.5 ppb	Sc GE_MMI_M 5 ppb	Sm GE_MMI_M 1 ppb	Sn GE_MMI_M 1 ppb
Line 300E 225N	<1	9.9	<0.1	130	0.9	29	8	1
Line 300E 250N	<1	10.1	<0.1	180	<0.5	23	9	<1
Line 300E 275N	<1	5.9	<0.1	56	<0.5	18	6	<1
Line 300E 300N	<1	4.9	<0.1	176	<0.5	46	5	1
Line 300E 325N	<1	8.9	<0.1	153	0.9	34	8	2
Line 300E 350N	<1	13.0	<0.1	79	1.1	47	11	<1
Line 300E 375N	<1	9.7	<0.1	63	1.0	53	8	10
Line 300E 375NB	<1	12.0	<0.1	46	0.6	39	10	3
Line 300E 400N	<1	9.2	<0.1	28	1.2	63	8	10
Line 300E 425N	<1	7.1	<0.1	113	1.2	85	6	22
Line 300E 425NB	<1	12.6	<0.1	76	0.6	45	11	<1
Line 300E 450N	<1	4.0	<0.1	18	0.8	20	3	7
Line 300E 475N	<1	8.6	<0.1	40	0.8	61	7	15
Line 300E 475NB	<1	5.2	<0.1	35	<0.5	25	5	2
Line 300E 500N	<1	9.9	<0.1	40	0.9	111	9	16
Line 300E 525N	<1	9.3	<0.1	13	0.7	33	7	7
Line 300E 550N	<1	14.3	<0.1	44	1.1	56	9	9
Line 300E 575N	<1	11.7	<0.1	369	1.4	101	9	22
Line 300E 600N	<1	7.1	<0.1	53	0.6	49	6	12
Line 300E 625N	<1	17.3	<0.1	209	1.5	114	12	15
Line 300E 650N	<1	10.1	<0.1	83	0.9	68	7	14
Line 300E 675N	<1	18.1	<0.1	55	0.9	84	13	12
Line 300E 700N	<1	25.1	<0.1	386	1.6	95	17	5
Line 300E 725N	<1	13.0	<0.1	41	0.6	61	10	6
Line 300E 750N	<1	8.7	<0.1	108	0.9	38	9	3
Line 300E 775N	<1	11.4	<0.1	73	<0.5	7	8	<1
Line 300E 800N	<1	17.5	<0.1	70	<0.5	7	14	<1
Line 300E 825N	<1	8.9	<0.1	68	0.9	56	9	4
Line 300E 850N	<1	3.4	<0.1	39	<0.5	10	4	<1
Line 300E 875N	<1	8.0	<0.1	45	<0.5	19	7	<1
*Rep Line 200E 225N	<1	60.5	<0.1	57	<0.5	84	59	<1
*Rep Line 200E 725N	<1	21.9	<0.1	124	<0.5	55	18	1
*Rep Line 300E 500N	<1	8.5	<0.1	51	0.9	77	7	14
*Std MMISRM24	5	5.1	2.7	138	<0.5	9	5	<1
*Std MMISRM19	<1	2.7	<0.1	210	0.6	14	8	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<1	<1

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Element Method Det.Lim. Units	Sr GE_MMI_M 10 ppb	Ta GE_MMI_M 1 ppb	Tb GE_MMI_M 0.1 ppb	Te GE_MMI_M 10 ppb	Th GE_MMI_M 0.5 ppb	Ti GE_MMI_M 10 ppb	Tl GE_MMI_M 0.1 ppb	U GE_MMI_M 0.5 ppb
Line 200E 200N	510	<1	1.9	<10	41.1	120	0.1	20.6
Line 200E 225N	1730	<1	12.1	<10	34.7	20	0.2	19.3
Line 200E 250N	100	<1	2.9	<10	31.8	2070	0.7	6.2
Line 200E 275N	220	1	1.8	<10	31.0	5640	0.5	6.8
Line 200E 300N	100	<1	0.9	<10	32.9	2930	0.3	10.6
Line 200E 325N	420	<1	10.1	<10	144	3270	0.4	14.4
Line 200E 350N	190	1	1.8	<10	28.6	4240	0.5	6.0
Line 200E 375N	130	1	2.4	<10	33.8	4930	0.8	7.1
Line 200E 375NB	530	2	1.6	<10	42.9	7970	0.6	7.9
Line 200E 400N	140	1	2.0	<10	34.2	6480	0.8	8.8
Line 200E 425N	200	2	1.6	<10	38.6	6910	0.6	8.9
Line 200E 425NB	330	<1	1.8	<10	19.6	3640	0.7	5.5
Line 200E 450N	160	<1	0.7	<10	24.0	3270	0.6	5.5
Line 200E 475N	80	<1	3.0	<10	28.2	2180	0.6	6.0
Line 200E 475NB	510	1	1.6	<10	31.8	6390	0.7	6.2
Line 200E 500N	390	<1	0.7	<10	20.4	3070	0.5	7.2
Line 200E 525N	140	<1	1.6	<10	24.5	3700	0.6	7.5
Line 200E 550N	150	<1	0.6	<10	30.2	1620	0.4	4.2
Line 200E 575N	220	<1	4.9	<10	17.6	4270	0.3	8.6
Line 200E 600N	90	<1	2.1	<10	12.7	1600	0.2	5.8
Line 200E 625N	400	<1	1.1	<10	8.8	1160	0.6	5.8
Line 200E 650N	200	<1	1.5	<10	16.4	5250	0.3	5.9
Line 200E 675N	240	2	2.3	<10	18.8	8990	0.4	6.0
Line 200E 700N	40	<1	0.1	<10	4.8	3120	0.2	2.2
Line 200E 725N	100	<1	2.4	<10	24.3	890	2.5	9.5
Line 200E 750N	170	<1	4.5	<10	38.2	3470	0.6	13.1
Line 200E 775N	170	<1	4.3	<10	36.3	2780	0.7	13.9
Line 200E 800N	140	<1	0.9	<10	20.6	510	0.7	5.3
Line 200E 825N	160	<1	4.0	<10	18.1	1330	0.4	8.0
Line 200E 850N	200	5	2.1	<10	33.8	19300	0.8	9.5
Line 200E 875N	370	2	2.1	<10	18.0	8760	0.7	5.6
Line 300E 0N	120	<1	3.2	<10	38.0	2580	0.6	8.5
Line 300E 25N	320	3	2.9	<10	82.1	11200	0.9	9.1
Line 300E 50N	140	<1	1.2	<10	11.3	750	0.2	4.7
Line 300E 75N	250	2	1.3	<10	51.3	8580	0.7	6.6
Line 300E 100N	350	5	1.1	<10	30.4	18000	1.0	6.7
Line 300E 125N	260	2	0.8	<10	22.7	6900	0.5	6.7
Line 300E 150N	360	2	1.2	<10	25.3	5050	0.5	6.4
Line 300E 175N	430	<1	1.1	<10	24.8	1490	0.4	6.2
Line 300E 200N	60	1	3.7	<10	26.7	4060	0.7	6.9

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Element Method Det.Lim. Units	Sr GE_MMI_M 10 ppb	Ta GE_MMI_M 1 ppb	Tb GE_MMI_M 0.1 ppb	Te GE_MMI_M 10 ppb	Th GE_MMI_M 0.5 ppb	Ti GE_MMI_M 10 ppb	Tl GE_MMI_M 0.1 ppb	U GE_MMI_M 0.5 ppb
Line 300E 225N	130	<1	1.1	<10	26.3	1670	0.7	5.9
Line 300E 250N	210	<1	1.6	<10	15.7	1000	0.5	5.3
Line 300E 275N	540	<1	0.9	<10	14.1	1010	0.2	3.1
Line 300E 300N	430	<1	0.9	<10	18.2	2320	0.4	3.1
Line 300E 325N	70	<1	1.2	<10	10.1	2120	0.3	3.4
Line 300E 350N	30	<1	2.0	<10	10.1	860	0.4	4.8
Line 300E 375N	120	3	1.4	<10	21.4	14100	0.4	8.3
Line 300E 375NB	90	<1	1.9	<10	11.5	2590	0.3	5.8
Line 300E 400N	170	2	1.1	<10	20.6	11700	0.3	10.3
Line 300E 425N	270	6	0.9	<10	25.9	31600	1.0	9.1
Line 300E 425NB	80	<1	1.6	<10	10.8	790	0.2	4.5
Line 300E 450N	170	<1	0.4	<10	16.0	3880	0.1	3.6
Line 300E 475N	180	3	1.0	<10	23.8	17400	0.4	9.4
Line 300E 475NB	190	<1	0.9	<10	8.6	3210	0.2	2.7
Line 300E 500N	200	4	1.4	<10	36.5	18800	0.9	11.6
Line 300E 525N	140	<1	1.0	<10	18.0	4880	0.2	5.6
Line 300E 550N	450	<1	1.5	<10	44.2	2540	0.3	6.4
Line 300E 575N	180	5	1.2	<10	21.6	19200	1.1	5.9
Line 300E 600N	430	2	0.7	<10	18.3	7900	0.3	5.0
Line 300E 625N	280	4	1.8	<10	23.9	17000	1.1	8.9
Line 300E 650N	300	3	1.0	<10	19.6	15700	0.6	6.4
Line 300E 675N	260	3	1.8	<10	28.2	11500	0.5	9.8
Line 300E 700N	210	2	2.3	<10	54.7	8370	2.1	6.7
Line 300E 725N	410	1	1.4	<10	24.4	4980	0.4	6.3
Line 300E 750N	260	<1	1.4	<10	17.5	3150	0.3	4.4
Line 300E 775N	520	<1	0.8	<10	20.3	80	0.2	13.0
Line 300E 800N	440	<1	1.4	<10	23.5	50	0.2	17.6
Line 300E 825N	160	<1	1.2	<10	26.3	2670	0.2	3.9
Line 300E 850N	530	<1	0.6	<10	5.9	40	0.1	2.9
Line 300E 875N	350	<1	0.8	<10	21.2	160	0.4	9.9
*Rep Line 200E 225N	1380	<1	10.0	<10	41.6	30	0.3	14.0
*Rep Line 200E 725N	110	<1	2.4	<10	25.5	970	2.7	10.6
*Rep Line 300E 500N	160	3	1.2	<10	30.8	13300	0.6	9.5
*Std MMISRM24	1540	<1	0.6	<10	16.6	40	0.1	9.5
*Std MMISRM19	4710	<1	2.1	<10	17.7	10	0.8	62.8
*Blk BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5
*Blk BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5
*Blk BLANK	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5

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Element Method Det.Lim. Units	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	1	0.2	10	2
	ppb	ppb	ppb	ppb	ppb
Line 200E 200N	<0.5	61	5.5	280	30
Line 200E 225N	<0.5	312	35.3	420	75
Line 200E 250N	0.8	83	6.5	350	74
Line 200E 275N	1.4	53	4.2	280	94
Line 200E 300N	1.4	35	3.7	290	70
Line 200E 325N	1.6	272	22.5	560	278
Line 200E 350N	1.7	46	4.7	210	106
Line 200E 375N	1.4	68	5.7	180	100
Line 200E 375NB	2.0	48	4.4	960	208
Line 200E 400N	1.7	59	5.4	120	123
Line 200E 425N	2.3	49	4.2	140	132
Line 200E 425NB	0.9	60	4.8	230	87
Line 200E 450N	1.2	18	1.5	50	77
Line 200E 475N	0.7	93	6.4	70	77
Line 200E 475NB	1.5	50	4.0	750	172
Line 200E 500N	0.9	20	1.7	240	87
Line 200E 525N	1.4	41	3.7	1300	89
Line 200E 550N	1.3	25	4.9	1810	56
Line 200E 575N	1.3	139	10.0	210	51
Line 200E 600N	0.6	72	6.0	40	37
Line 200E 625N	1.2	35	3.7	1420	123
Line 200E 650N	1.1	54	4.9	230	74
Line 200E 675N	3.5	63	5.7	740	109
Line 200E 700N	0.9	8	1.8	130	126
Line 200E 725N	0.8	59	5.9	380	86
Line 200E 750N	2.4	111	8.4	190	84
Line 200E 775N	1.7	104	8.1	200	76
Line 200E 800N	0.6	33	2.5	4760	45
Line 200E 825N	0.5	127	9.2	840	54
Line 200E 850N	2.2	60	5.0	320	123
Line 200E 875N	1.8	55	4.4	250	72
Line 300E 0N	1.3	140	11.7	110	140
Line 300E 25N	3.3	88	8.1	510	337
Line 300E 50N	<0.5	36	2.9	240	36
Line 300E 75N	3.1	29	2.8	1910	233
Line 300E 100N	4.8	34	3.5	1820	226
Line 300E 125N	1.9	27	2.5	360	106
Line 300E 150N	2.0	36	2.9	1060	130
Line 300E 175N	0.7	34	2.6	4440	56
Line 300E 200N	1.6	96	6.7	50	89

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Element Method Det.Lim. Units	W	Y	Yb	Zn	Zr
	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
	0.5	1	0.2	10	2
	ppb	ppb	ppb	ppb	ppb
Line 300E 225N	1.0	27	2.6	40	68
Line 300E 250N	0.6	40	2.7	310	37
Line 300E 275N	<0.5	24	2.1	620	43
Line 300E 300N	0.9	31	2.7	780	67
Line 300E 325N	0.7	32	3.3	800	38
Line 300E 350N	<0.5	64	6.3	140	30
Line 300E 375N	3.6	38	3.7	300	130
Line 300E 375NB	1.3	52	4.7	680	38
Line 300E 400N	3.5	33	3.4	230	119
Line 300E 425N	6.6	30	3.1	330	234
Line 300E 425NB	0.7	44	4.0	180	37
Line 300E 450N	1.4	16	1.4	130	62
Line 300E 475N	3.3	33	3.2	250	182
Line 300E 475NB	0.9	27	2.6	610	42
Line 300E 500N	3.9	56	6.2	380	419
Line 300E 525N	1.6	35	3.0	630	70
Line 300E 550N	1.6	47	3.5	1540	82
Line 300E 575N	3.1	36	3.5	450	163
Line 300E 600N	2.2	26	2.0	160	101
Line 300E 625N	3.3	56	4.4	240	241
Line 300E 650N	3.1	33	2.8	220	145
Line 300E 675N	3.0	55	3.7	130	148
Line 300E 700N	2.4	60	4.5	140	192
Line 300E 725N	1.6	45	3.2	130	80
Line 300E 750N	1.0	37	2.8	330	52
Line 300E 775N	<0.5	26	2.1	30	14
Line 300E 800N	<0.5	43	3.3	110	17
Line 300E 825N	1.3	38	3.0	1920	62
Line 300E 850N	<0.5	20	1.4	400	11
Line 300E 875N	0.6	26	2.2	250	25
*Rep Line 200E 225N	<0.5	290	32.7	420	70
*Rep Line 200E 725N	0.9	64	6.4	410	94
*Rep Line 300E 500N	3.3	43	4.8	330	338
*Std MMISRM24	<0.5	21	0.9	210	29
*Std MMISRM19	<0.5	69	5.0	2320	14
*Blk BLANK	<0.5	<1	<0.2	<10	<2
*Blk BLANK	<0.5	<1	<0.2	<10	<2
*Blk BLANK	<0.5	<1	<0.2	<10	<2

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Appendix C

Field Data

CT-OG-01 132 SAMPLES

<u>LINE</u>	<u>STATION</u>	<u>EAST</u>	<u>NORTH</u>	<u>SAMPLE</u>	<u>VEGETATION</u>	
line 0	0	468930	5358225	Sandy/dirt	spruce/poplar	
	25	468930	5358250	light sand	spruce/poplar	
	50	468930	5358275	grey brown sand	spruce/poplar	
	75	468930	5358300	Sandy/dirt	spruce/poplar	
	100	468930	5358325	sand	spruce/poplar	
	125	468930	5358350	sand	spruce/poplar	
	150	468930	5358375	sand	spruce/poplar	
	175	468930	5358400	sand	spruce/poplar	
	200	468930	5358425	sand	spruce/poplar	
	225	468930	5358450	sand	spruce/poplar	
	250	468930	5358476	sand	spruce/poplar	
	275	468930	5358501	humus	spruce/tags	
	300	468930	5358526	sandy humus	spruce/tags	
	325	468930	5358551	humus	spruce/tags	
	350	468930	5358576	sand	spruce/tags	
	375	468930	5358601	sand	spruce/tags	
	375B	468930	5358603	sand	spruce/tags	REPEAT
	400	468930	5358626	wet sand	spruce/tags	
	425	468930	5358651	sand	spruce/tags	
	425B	468930	5358652	sand	spruce/tags	REPEAT
	450	468930	5358676	sand	spruce/tags	
	475	468930	5358701	sand	spruce/tags	
	475B	468930	5358702	sand	spruce/tags	REPEAT
	500	468930	5358726	sand	spruce/tags	
	525	468930	5358751	humus	spruce/tags	
	550	468930	5358776	sand	spruce/tags	
	575	468930	5358801	humus	spruce/tags	
	600	468930	5358826	sand	cedar mix	
	625	468930	5358851	sand	cedar mix	
	650	468930	5358876	humus	spruce mix	
	675	468930	5358901	sand	spruce mix	
	700	468930	5358926	sand	spruce mix	
	725	468930	5358951	sand	spruce mix	
	750	468930	5358977	sand	spruce mix	
	775	468930	5359002	sand	spruce mix	
	800	468930	5359027	humus	spruce mix	
	825	468930	5359052	humus sand mix	spruce mix	
850	468930	5359077	humus sand mix	spruce mix		
875	468930	5359102	humus	spruce mix		
900	468930	5359127	humus	spruce mix		

<u>LINE</u>	<u>STATION</u>	<u>EAST</u>	<u>NORTH</u>	<u>SAMPLE</u>	<u>VEGETATION</u>	
	925	468930	5359152	humus	spruce mix	
	950	468930	5359177	humus	spruce mix	
	975	468930	5359202	wet sand	tag alders	
	1000	468930	5359227	wet sand	tag alders	44
line 100E						
	0	469130	5358220	sand	spruce/poplar	
	25	469130	5358245	sand	spruce/poplar	
	50	469130	5358271	sand	spruce/poplar	
	75	469130	5358296	sand	spruce/poplar	
	100	469130	5358321	sand	spruce/poplar	
	125	469130	5358347	sand	spruce/poplar	
	150	469130	5358372	sand	spruce/poplar	
	175	469130	5358397	sand	spruce/poplar	
	200	469130	5358422	sand	spruce/poplar	
	225	469130	5358448	sand	spruce/poplar	
	250	469130	5358473	sand	spruce/poplar	
	275	469130	5358498	sand	spruce/poplar	
	300	469130	5358524	sand	spruce/poplar	
	325	469130	5358549	sand	spruce/poplar	
	350	469130	5358574	sand	SPRUCE MIX	
	350B	469130	5358575	sand	SPRUCE MIX	REPEAT
	375	469130	5358600	sand	SPRUCE MIX	
	400	469130	5358625	sand	SPRUCE MIX	
	400B	469130	5358626	sand	SPRUCE MIX	REPEAT
	425	469130	5358650	humus	SPRUCE MIX	
	450	469130	5358675	sand	SPRUCE MIX	
	450B	469130	5358676	HUMUS	SPRUCE MIX	REPEAT
	475	469130	5358701	sand	SPRUCE MIX	
	500	469130	5358726	wet sand	SPRUCE MIX	
	525	469130	5358751	wet sand	SPRUCE MIX	
	550	469130	5358777	sand	SPRUCE MIX	
	575	469130	5358802	sand	spruce cedar mix	
	600	469130	5358827	sand	spruce cedar mix	
	625	469130	5358853	sand	spruce cedar mix	
	650	469130	5358878	sand	spruce cedar mix	
	675	469130	5358903	sand	spruce	
	700	469130	5358928	sand	spruce	
	725	469130	5358954	sand	spruce	
	750	469130	5358979	sand	spruce	
	775	469130	5359004	humus	spruce	
	800	469130	5359030	humus	spruce cedar mix	
	825	469130	5359055	sand	spruce cedar mix	

<u>LINE</u>	<u>STATION</u>	<u>EAST</u>	<u>NORTH</u>	<u>SAMPLE</u>	<u>VEGETATION</u>	
	850	469130	5359080	sand	spruce cedar mix	
	875	469130	5359106	sand	spruce cedar mix	
	900	469130	5359131	sand	spruce cedar mix	
	925	469130	5359156	sand	spruce cedar mix	
	950	469130	5359181	sand	spruce tags mix	
	975	469130	5359207	sand	spruce tags mix	
	1000	469130	5359232	sand	spruce tags mix	44
line 200E						
	0	469330	5358227	sand	jackpine/spruce	
	25	469330	5358252	sand	jackpine/spruce	
	50	469330	5358277	sand	jackpine/spruce	
	75	469330	5358302	sand	jackpine/spruce	
	100	469330	5358327	sand	jackpine/spruce	
	125	469330	5358352	sand	jackpine/spruce	
	150	469330	5358377	sand	jackpine/spruce	
	175	469330	5358403	sand	jackpine/spruce	
	200	469330	5358428	sand	jackpine/spruce	
	225	469330	5358453	sand	jackpine/spruce	
	250	469330	5358478	sand	jackpine/spruce	
	250B	469330	5358479	sand	jackpine/spruce	REPEAT
	275	469330	5358503	sand	jackpine/spruce	
	300	469330	5358528	sand	tag alders	
	300B	469330	5358530	sand	tag alders	REPEAT
	325	469330	5358553	sand	tag alders	
	350	469330	5358578	sand	tag alders	
	350B	469330	5358580	SAND MIX	tag alders	REPEAT
	375	469330	5358603	sand	tag alders	
	400	469330	5358628	humus	tag alders	
	425	469330	5358653	sand	clear cut/ tamarack	
	450	469330	5358678	sand	clear cut/ tamarack	
	475	469330	5358703	sand	clear cut/ tamarack	
	500	469331	5358729	sand	clear cut/ tamarack	
	525	469331	5358754	wet humus	clear cut/ tamarack	
	550	469333	5358779	sand	clear cut/ tamarack	
	575	469333	5358804	sand	clear cut/ tamarack	
	600	469333	5358829	sand	clear cut/ tamarack	
	625	469333	5358854	sand	clear cut/ tamarack	
	650	469333	5358879	sand	clear cut/ tamarack	
	675	469333	5358904	sand	clear cut/ tamarack	
	700	469333	5358929	sand	pine cedar mix	
	725	469333	5358954	sand	pine cedar mix	
	750	469333	5358979	sand	pine cedar mix	

775	469333	5359004	humus	spruce tags mix
800	469333	5359029	sand	spruce tags mix
825	469333	5359054	sand	spruce tags mix
850	469337	5359080	sand	spruce tags mix
875	469337	5359105	sand	spruce tags mix
900	469337	5359130	sand	spruce tags mix
925	469337	5359155	sand	birch spruce mix
950	469337	5359180	sand	birch spruce mix
975	469337	5359205	sand	birch spruce mix
1000	469337	5359230	sand	birch spruce mix

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<u>LINE</u>	<u>STATION</u>	<u>EASTING</u>	<u>NORTHING</u>	<u>SAMPLE</u>	<u>VEGETATION</u>
line 0	0	470911	5359675	humus	cedar
	25	470911	5359700	humus	cedar
	50	470911	5359725	humus	cedar
	75	470911	5359750	humus	cedar
	100	470911	5359775	humus	cedar
	125	470911	5359800	humus	cedar
	150	470911	5359825	clay/humus	cedar
	175	470911	5359850	humus	cedar
	200	470911	5359875	humus	cedar
	225	470911	5359900	humus	cedar
	250	470911	5359925	humus	cedar
	275	470911	5359950	humus	spruce/tags
	300	470911	5359975	humus	spruce/tags
	325	470914	5360000	humus	spruce/tags
	350	470914	5360025	sandy/humus	spruce/pine
	375	470914	5360050	humus	spruce/pine
	400	470914	5360075	humus	spruce/pine
	425	470914	5360100	humus	spruce/pine
	450	470914	5360125	humus	clear cut/slash
	475	470914	5360150	humus	clear cut/slash
	500	470914	5360175	wet sand	clear cut/slash
	525	470911	5360200	wet sand	clear cut/slash
	550	470911	5360225	wet sand	clear cut/slash
	575	470911	5360250	sand	clear cut/slash
	600	470911	5360275	sand	clear cut/slash
	600B	470911	5360276	sand	clear cut/slash REPEAT
	625	470911	5360300	sand	clear cut/slash
	650	470911	5360325	sand	clear cut/slash

<u>LINE</u>	<u>STATION</u>	<u>EASTING</u>	<u>NORTHING</u>	<u>SAMPLE</u>	<u>VEGETATION</u>	
	650B	470911	5360326	sand	clear cut/slash	REPEAT
	675	470911	5360350	sand	clear cut/slash	
	700	470911	5360375	sand	clear cut/slash	
	700B	470911	5360376	sand	clear cut/slash	REPEAT
	725	470911	5360400	sand	clear cut/slash	
	750	470911	5360425	sand	clear cut/slash	
	775	470911	5360450	sand	clear cut/slash	
	800	470911	5360475	sand	spruce/moss	
	825	470913	5360500	humus	spruce/moss	
	850	470913	5360525	humus	spruce/moss	
	875	470913	5360550	humus	spruce/moss	
line 100E						39
	0	471117	5359670	CLAY	spruce/tags	
	25	471117	5359695	SAND	spruce/tags	
	50	471117	5359721	SANDY CLAY	spruce/tags	
	75	471117	5359746	SANDY CLAY	spruce/tags	
	100	471117	5359771	SANDY CLAY	spruce/tags	
	125	471117	5359796	SANDY CLAY	clear cut/ tags	
	150	471117	5359822	SANDY CLAY	clear cut/ tags	
	175	471117	5359847	SANDY CLAY	clear cut/ tags	
	200	471117	5359872	SANDY CLAY	clear cut/ tags	
	225	471117	5359898	HUMUS	clear cut/ tags	
	250	471117	5359923	wet sand	clear cut/road	
	275	471117	5359948	wet sand	clear cut	
	300	471117	5359973	wet sand	clear cut	
	325	471117	5359999	wet sand	clear cut	
	350	471117	5360024	humus/sand	clear cut	
	375	471117	5360049	wet sand	clear cut	
	400	471117	5360075	wet sand	clear cut	
	425	471117	5360100	wet sand	clear cut	
	450	471117	5360125	humus	clear cut	
	475	471117	5360150	sand	clear cut	
	500	471117	5360176	sand	clear cut	
	525	471117	5360201	sand	clear cut	
	525B	471117	5360202	sand	clear cut	REPEAT
	550	471117	5360226	sand	clear cut	
	575	471117	5360252	sand	clear cut/road	
	575B	471117	5360253	sand	clear cut	REPEAT
	600	471117	5360277	sand	clear cut	
	625	471117	5360302	sand	clear cut	
	625B	471117	5360303	sand	clear cut	REPEAT
	650	471117	5360327	sand	clear cut	

<u>LINE</u>	<u>STATION</u>	<u>EASTING</u>	<u>NORTHING</u>	<u>SAMPLE</u>	<u>VEGETATION</u>	
	675	471117	5360353	sand	clear cut	
	700	471117	5360378	sand	clear cut	
	725	471117	5360403	sand	clear cut	
	750	471117	5360429	sand	clear cut	
	775	471117	5360454	sand	clear cut	
	800	471117	5360479	sand	clear cut	
	825	471117	5360504	humus	clear cut/cedar	
	850	471117	5360530	sand	clear cut/cedar	
	875	471117	5360555	humus	clear cut/cedar	39
line 200E						
	0	471315	5359677	sand	creek/tags	
	25	471315	5359702	sand	jack pine	
	50	471315	5359727	sand	jack pine	
	75	471315	5359753	sand	pine mix	
	100	471315	5359778	sand	pine mix	
	125	471315	5359803	sand	pine mix	
	150	471315	5359828	clay	pine mix	
	175	471315	5359854	clay	creek/tags	
	200	471315	5359879	clay	creek/tags	
	225	471315	5359904	sand	balsam	
	250	471315	5359929	sand	birch mix clear cut	
	275	471315	5359955	sand	birch mix clear cut	
	300	471315	5359980	clay	birch mix clear cut	
	325	471315	5360005	sand	birch mix clear cut	
	350	471315	5360030	sand	birch mix clear cut	
	375	471315	5360055	sand	birch mix clear cut	
	375B	471315	5360051	sand	birch mix clear cut	REPEAT
	400	471315	5360081	sand	birch mix clear cut	
road	425	471315	5360106	sand	road, clear cut	
	425B	471315	5360107	sand	clear cut/ brush	REPEAT
	450	471315	5360131	sand	clear cut/ brush	
	475	471315	5360156	sand	clear cut/ brush	
	475B	471315	5360157	sand	clear cut/ brush	REPEAT
	500	471315	5360182	sand	clear cut/ brush	
	525	471315	5360207	sand	clear cut/ brush	
	550	471315	5360232	sand	clear cut/ brush	
	575	471315	5360257	sand	clear cut/ brush	
	600	471315	5360282	sand	clear cut/ brush	
	625	471315	5360308	sand	clear cut/ brush	
	650	471315	5360333	sand	clear cut/ brush	

<u>LINE</u>	<u>STATION</u>	<u>EASTING</u>	<u>NORTHING</u>	<u>SAMPLE</u>	<u>VEGETATION</u>	
	675	471315	5360358	sand	clear cut/OC	
	700	471315	5360383	sand	clear cut/OC	
	725	471315	5360409	sand	clear cut/ brush	
	750	471315	5360434	sand	clear cut/ brush	
	775	471315	5360459	sand	birch mix clear cut	
	800	471315	5360484	sand/rocky	birch mix clear cut	
	825	471315	5360510	sand	birch mix clear cut	
	850	471315	5360535	sand	birch mix clear cut	
	875	471315	5360560	sand	birch mix clear cut	39
line 300E						
	0	471511	5359670	clay	poplar	
	25	471511	5359695	clay	poplar mix	
	50	471511	5359719	sand	jack pine mix	
	75	471511	5359744	sand	birch mix	
	100	471511	5359769	sand	tags and birch	
	125	471511	5359793	sand	clear cut/brush	
	150	471511	5359818	sand	clear cut/brush	
	175	471511	5359842	sand	clear cut/brush	
	200	471511	5359867	sand	clear cut/brush	
	225	471511	5359892	sand	clear cut/brush	
	250	471511	5359916	sand	clear cut/brush	
	275	471511	5359941	sand	clear cut/brush	
	300	471511	5359966	sand	balsam mix	
	325	471511	5359990	sand	clear cut/brush	
	350	471511	5360015	sand	clear cut/brush	
	375	471511	5360040	sand	clear cut/brush	
	375B	471511	5360041	sand	clear cut/brush	REPEAT
	400	471511	5360064	sand	clear cut/brush	
road	425	471511	5360089	sand	clear cut/brush	
	425B	471511	5360090	sand	clear cut/brush	REPEAT
	450	471511	5360114	sand	clear cut/brush	
	475	471511	5360138	sand	clear cut/brush	
	475B	471511	5360139	sand	clear cut/brush	REPEAT
	500	471511	5360163	sand	clear cut/brush	
	525	471511	5360187	sand	jack pine mix	
	550	471511	5360212	sand	jack pine mix	
	575	471511	5360237	sand	jack pine mix	
	600	471511	5360261	sand	poplar mix	
	625	471511	5360286	sand	poplar mix	
	650	471511	5360311	sand	poplar mix	

<u>LINE</u>	<u>STATION</u>	<u>EASTING</u>	<u>NORTHING</u>	<u>SAMPLE</u>	<u>VEGETATION</u>
	675	471511	5360335	sand	poplar mix
	700	471511	5360360	sand	poplar mix
	725	471511	5360385	sand	poplar mix
	750	471511	5360409	sand	poplar mix
	775	471511	5360434	sand	poplar mix
	800	471511	5360458	humus/sand	creek/tags
	825	471511	5360483	humus/sand	balsam mix
	850	471511	5360508	sandy clay	balsam mix
	875	471511	5360532	sandy clay	river edge

Appendix D

Property Details

Legacy Claim Id	Township	Tenure ID	Tenure Type	Anniversary Date	Tenure Status	Tenure Percentage	Work Required	Conversion Bank Credit
4240518	OGDEN	104400	Single Cell Mining Claim	2018-12-09	Active	100	400	0
4240518	OGDEN	337494	Single Cell Mining Claim	2018-12-09	Active	100	200	0
4240518	OGDEN	296463	Single Cell Mining Claim	2018-12-09	Active	100	400	0
4240518	OGDEN	278384	Single Cell Mining Claim	2018-12-09	Active	100	200	0
4240518	OGDEN	277599	Single Cell Mining Claim	2018-12-09	Active	100	200	0
4240518	OGDEN	277598	Boundary Cell Mining Claim	2018-12-09	Active	100	200	0
4240518	OGDEN	242538	Boundary Cell Mining Claim	2018-12-09	Active	100	200	0
4240518	OGDEN	222386	Boundary Cell Mining Claim	2018-12-09	Active	100	200	0
4240518	OGDEN	176459	Single Cell Mining Claim	2018-12-09	Active	100	400	0
4240518	OGDEN	176458	Boundary Cell Mining Claim	2018-12-09	Active	100	200	0
4240518	OGDEN	129070	Single Cell Mining Claim	2018-12-09	Active	100	400	0
4240518	OGDEN	119680	Single Cell Mining Claim	2018-12-09	Active	100	200	0
4240518	OGDEN	104401	Boundary Cell Mining Claim	2018-12-09	Active	100	200	0
4240519	OGDEN	124563	Single Cell Mining Claim	2018-12-09	Active	100	200	0
4240519	OGDEN	343467	Boundary Cell Mining Claim	2018-12-09	Active	100	200	0
4240519	OGDEN	337494	Single Cell Mining Claim	2018-12-09	Active	100	DUPLICATED	0
4240519	OGDEN	304591	Boundary Cell Mining Claim	2018-12-09	Active	100	200	0
4240519	OGDEN	291906	Single Cell Mining Claim	2018-12-09	Active	100	400	0
4240519	OGDEN	254694	Single Cell Mining Claim	2018-12-09	Active	100	200	0
4240519	OGDEN	188029	Single Cell Mining Claim	2018-12-09	Active	100	400	0
4240519	OGDEN	188028	Single Cell Mining Claim	2018-12-09	Active	100	200	0
4240519	OGDEN	169060	Single Cell Mining Claim	2018-12-09	Active	100	200	0
4240519	OGDEN	152441	Single Cell Mining Claim	2018-12-09	Active	100	200	0
4240519	OGDEN	124564	Boundary Cell Mining Claim	2018-12-09	Active	100	200	0
1199806	OGDEN	149359	Boundary Cell Mining Claim	2019-06-26	Active	100	200	0
1199806	OGDEN	333215	Single Cell Mining Claim	2019-06-26	Active	100	400	0
1199806	OGDEN	320724	Single Cell Mining Claim	2019-06-26	Active	100	400	0
1199806	OGDEN	284110	Boundary Cell Mining Claim	2019-06-26	Active	100	200	0
1199806	OGDEN	283843	Boundary Cell Mining Claim	2019-06-26	Active	100	200	0
1199806	OGDEN	283842	Single Cell Mining Claim	2019-06-26	Active	100	400	0
1199806	OGDEN	264033	Boundary Cell Mining Claim	2019-06-26	Active	100	200	0
1199806	OGDEN	254697	Single Cell Mining Claim	2019-06-26	Active	100	400	0
1199806	OGDEN	254696	Single Cell Mining Claim	2019-06-26	Active	100	400	0
1199806	OGDEN	251451	Boundary Cell Mining Claim	2019-06-26	Active	100	200	0
1199806	OGDEN	234754	Boundary Cell Mining Claim	2019-06-26	Active	100	200	0
1199806	OGDEN	177347	Single Cell Mining Claim	2019-06-26	Active	100	400	0
1199807	OGDEN	129071	Boundary Cell Mining Claim	2019-06-26	Active	100	200	0
1199807	OGDEN	283842	Single Cell Mining Claim	2019-06-26	Active	100	DUPLICATED	0
1199807	OGDEN	254695	Single Cell Mining Claim	2019-06-26	Active	100	400	0
1199807	OGDEN	251451	Boundary Cell Mining Claim	2019-06-26	Active	100	DUPLICATED	0
1199807	OGDEN	251450	Boundary Cell Mining Claim	2019-06-26	Active	100	200	0

Legacy Claim Id	Township	Tenure ID	Tenure Type	Anniversary Date	Tenure Status	Tenure Percentage	Work Required	Conversion Bank Credit
1199807	OGDEN	223912	Single Cell Mining Claim	2019-06-26	Active	100	400	0
1199807	OGDEN	177347	Single Cell Mining Claim	2019-06-26	Active	100	400	0
1199807	OGDEN	176460	Single Cell Mining Claim	2019-06-26	Active	100	400	0
1199807	OGDEN	152442	Single Cell Mining Claim	2019-06-26	Active	100	400	0
1199807	OGDEN	132121	Single Cell Mining Claim	2019-06-26	Active	100	400	0
4240518	OGDEN	176460	Single Cell Mining Claim	2019-06-26	Active	100	DUPLICATED	0
4240518	OGDEN	129071	Boundary Cell Mining Claim	2019-06-26	Active	100	DUPLICATED	0
4240519	OGDEN	283843	Boundary Cell Mining Claim	2019-06-26	Active	100	DUPLICATED	0
4240519	OGDEN	283842	Single Cell Mining Claim	2019-06-26	Active	100	DUPLICATED	0
4240519	OGDEN	254697	Single Cell Mining Claim	2019-06-26	Active	100	DUPLICATED	0
4240519	OGDEN	254696	Single Cell Mining Claim	2019-06-26	Active	100	DUPLICATED	0
4240519	OGDEN	254695	Single Cell Mining Claim	2019-06-26	Active	100	DUPLICATED	0
4240519	OGDEN	176460	Single Cell Mining Claim	2019-06-26	Active	100	DUPLICATED	0
4240519	OGDEN	152442	Single Cell Mining Claim	2019-06-26	Active	100	DUPLICATED	0
4221819	OGDEN	304586	Single Cell Mining Claim	2019-07-24	Active	100	200	0
4221819	OGDEN	291901	Single Cell Mining Claim	2019-07-24	Active	100	400	0
4221819	OGDEN	136017	Single Cell Mining Claim	2019-07-24	Active	100	200	0
4221819	OGDEN	136016	Single Cell Mining Claim	2019-07-24	Active	100	400	0
4221820	OGDEN	340523	Boundary Cell Mining Claim	2019-07-24	Active	100	200	0
4221820	OGDEN	290169	Boundary Cell Mining Claim	2019-07-24	Active	100	200	0
4221820	OGDEN	253667	Single Cell Mining Claim	2019-07-24	Active	100	400	0
1199807	OGDEN	288573	Boundary Cell Mining Claim	2019-07-31	Active	100	200	0
1199807	OGDEN	288572	Boundary Cell Mining Claim	2019-07-31	Active	100	200	0
4221820	OGDEN	146140	Boundary Cell Mining Claim	2019-07-31	Active	100	200	0
4221820	OGDEN	249477	Boundary Cell Mining Claim	2019-07-31	Active	100	200	0
4221820	OGDEN	221999	Boundary Cell Mining Claim	2019-07-31	Active	100	200	0
4241470	OGDEN	146140	Boundary Cell Mining Claim	2019-07-31	Active	100	DUPLICATED	0
4241470	OGDEN	288573	Boundary Cell Mining Claim	2019-07-31	Active	100	DUPLICATED	0
4241470	OGDEN	288572	Boundary Cell Mining Claim	2019-07-31	Active	100	DUPLICATED	0
4241470	OGDEN	249477	Boundary Cell Mining Claim	2019-07-31	Active	100	DUPLICATED	0
4241470	OGDEN	221999	Boundary Cell Mining Claim	2019-07-31	Active	100	DUPLICATED	0
04243411	OGDEN	119713	Single Cell Mining Claim	2020-03-27	Active	100	DUPLICATED	0
04243411	OGDEN	325659	Boundary Cell Mining Claim	2020-03-27	Active	100	200	0
04243411	OGDEN	325658	Single Cell Mining Claim	2020-03-27	Active	100	DUPLICATED	0
04243411	OGDEN	296497	Single Cell Mining Claim	2020-03-27	Active	100	DUPLICATED	0
04243411	OGDEN	296496	Boundary Cell Mining Claim	2020-03-27	Active	100	200	0
04243411	OGDEN	278385	Boundary Cell Mining Claim	2020-03-27	Active	100	DUPLICATED	0
04243411	OGDEN	277628	Single Cell Mining Claim	2020-03-27	Active	100	200	0
04243411	OGDEN	259062	Boundary Cell Mining Claim	2020-03-27	Active	100	200	0
04243411	OGDEN	259061	Single Cell Mining Claim	2020-03-27	Active	100	200	0

Legacy Claim Id	Township	Tenure ID	Tenure Type	Anniversary Date	Tenure Status	Tenure Percentage	Work Required	Conversion Bank Credit
04243411	OGDEN	259060	Single Cell Mining Claim	2020-03-27	Active	100	DUPLICATED	0
04243411	OGDEN	259033	Boundary Cell Mining Claim	2020-03-27	Active	100	DUPLICATED	0
04243411	OGDEN	259032	Single Cell Mining Claim	2020-03-27	Active	100	DUPLICATED	0
04243411	OGDEN	230380	Boundary Cell Mining Claim	2020-03-27	Active	100	200	0
04243411	OGDEN	192478	Single Cell Mining Claim	2020-03-27	Active	100	DUPLICATED	0
04243411	OGDEN	157026	Boundary Cell Mining Claim	2020-03-27	Active	100	200	0
04243411	OGDEN	157002	Single Cell Mining Claim	2020-03-27	Active	100	DUPLICATED	0
04243411	OGDEN	119714	Single Cell Mining Claim	2020-03-27	Active	100	400	0
4221819	OGDEN	325658	Single Cell Mining Claim	2020-03-27	Active	100	400	0
4221819	OGDEN	296497	Single Cell Mining Claim	2020-03-27	Active	100	400	0
4221819	OGDEN	259060	Single Cell Mining Claim	2020-03-27	Active	100	200	0
4221819	OGDEN	181986	Single Cell Mining Claim	2020-03-27	Active	100	400	0
4221819	OGDEN	169055	Single Cell Mining Claim	2020-03-27	Active	100	200	0
4221819	OGDEN	124553	Single Cell Mining Claim	2020-03-27	Active	100	400	0
4221819	OGDEN	119713	Single Cell Mining Claim	2020-03-27	Active	100	400	0
4240518	OGDEN	278385	Boundary Cell Mining Claim	2020-03-27	Active	100	200	0
4240518	OGDEN	259033	Boundary Cell Mining Claim	2020-03-27	Active	100	200	0
4240518	OGDEN	259032	Single Cell Mining Claim	2020-03-27	Active	100	400	0
4240518	OGDEN	192478	Single Cell Mining Claim	2020-03-27	Active	100	400	0
4240518	OGDEN	157002	Single Cell Mining Claim	2020-03-27	Active	100	400	0
4246736	OGDEN	119713	Single Cell Mining Claim	2020-03-27	Active	100	DUPLICATED	0
4246736	OGDEN	341101	Single Cell Mining Claim	2020-03-27	Active	100	400	7
4246736	OGDEN	341100	Boundary Cell Mining Claim	2020-03-27	Active	100	200	0
4246736	OGDEN	320241	Boundary Cell Mining Claim	2020-03-27	Active	100	200	0
4246736	OGDEN	296496	Boundary Cell Mining Claim	2020-03-27	Active	100	DUPLICATED	0
4246736	OGDEN	206429	Boundary Cell Mining Claim	2020-03-27	Active	100	200	0
4246736	OGDEN	206428	Boundary Cell Mining Claim	2020-03-27	Active	100	200	0
4246736	OGDEN	181986	Single Cell Mining Claim	2020-03-27	Active	100	DUPLICATED	0
4246736	OGDEN	169055	Single Cell Mining Claim	2020-03-27	Active	100	DUPLICATED	0
4246736	OGDEN	150964	Single Cell Mining Claim	2020-03-27	Active	100	200	0
4246736	OGDEN	124553	Single Cell Mining Claim	2020-03-27	Active	100	DUPLICATED	0
4246736	OGDEN	123552	Single Cell Mining Claim	2020-03-27	Active	100	DUPLICATED	0
4221820	OGDEN,PRICE	186346	Boundary Cell Mining Claim	2019-07-24	Active	100	200	0
4221820	OGDEN,PRICE	122952	Boundary Cell Mining Claim	2019-07-24	Active	100	200	0
4221820	OGDEN,PRICE	108745	Single Cell Mining Claim	2019-07-24	Active	100	400	0
4221820	PRICE	340524	Boundary Cell Mining Claim	2019-07-24	Active	100	200	0
4221820	PRICE	319652	Single Cell Mining Claim	2019-07-24	Active	100	400	0
4221820	PRICE	302231	Boundary Cell Mining Claim	2019-07-24	Active	100	200	0
4221820	PRICE	265160	Boundary Cell Mining Claim	2019-07-24	Active	100	200	0
4221820	PRICE	108747	Boundary Cell Mining Claim	2019-07-24	Active	100	200	0
4221820	PRICE	108746	Boundary Cell Mining Claim	2019-07-24	Active	100	200	0

OGDEN PATENTS	
Original Patents	MLAS Patents
P6426	PAT-3264
P6427	PAT-3265
P11464	PAT-3486
P11465	PAT-3487
P26757	PAT-3266
P26758	PAT-3267
P35594	PAT-3271
P35760	PAT-3272
P35989	PAT-3273
P35990	PAT-3274
P35991	PAT-3275
TRP621	PAT-3268
TRP811	PAT-3269
TRP812	PAT-3270

Appendix 2

Costs and Certification

OGDEN MMI SAMPLING PROGRAM

<u>Invoice</u>	<u>Cost</u>	<u>No.</u>
Exsics sampling	77,322.79	1847
SGS analyses	<u>75,925.33</u>	1912
total	153,248.12	
cost/sample	82.97	
cost rounded	83.00	

<u>Cell Claim</u>		<u>\$/claim</u>
<u>GridOG 02</u>		
337494	8	664
188028	7	581
152441	15	1,245
samples	30	2,490

<u>Grid OG 04</u>		
119713	20	1,660
123552	57	4,731
124553	19	1,577
150964	6	498
157002	19	1,577
176459	44	3,652
181986	18	1,494
278385	59	4,897
296463	15	1,245
296496	57	4,731
341101	56	4,648
samples	370	30,710

<u>Grid OG 01</u>		
234754	26	2,158
254697	20	1,660
264033	21	1,743
283843	10	830
284110	13	1,079
320724	42	3,486
samples	132	10,956

total cost (\$)	44,156
total samples	532

CERTIFICATE

Rainer Skeries

As co-author this report entitled "MMI Soil Geochem Assessment Report, Mountjoy Project - River Group - , in Mountjoy Township, Porcupine Mining District, Ontario", I certify that:

1. I am an independent geological consultant and carried out this assignment for Central Timmins Exploration Corp. (CTEC), 1008-4950 Yonge St., North York, ON, M2n 6K1.
2. I hold the following academic qualifications: H.BSc (Geology) University of Western Ontario, 1976.
3. I am a registered Professional Geoscientist with the Association of Professional Geoscientists of Ontario (#0598) and Association of Professional Engineers and Geoscientists of Saskatchewan (#10898 non-practicing).
4. I have worked as a geologist in the minerals industry for 40+ years.
5. I am not aware of any material fact, or change in reported information, in connection with the subject property, not reported or considered by me, the omission of which makes this report misleading.
6. I am independent of the parties involved other than providing consulting services.

Dated at Collingwood, ON, Canada, this 6th day of December, 2018.



DECLARATION of PHILIP BURT

I hereby state that:

1. My name is Philip David Burt and I am a Consulting Geologist and Sole Proprietor of Burt Consulting Services, 2281 Carol Road, Oakville, Ontario, CANADA, L6J 6B5. I am a resident of Oakville, Ontario, CANADA.
2. I have been awarded the following degrees in Geology/Mining:
 - i) British Columbia Institute of Technology, 1971, Diploma of Technology in Mining Engineering.
 - ii) University of British Columbia, 1980, B.Sc (Geology)
3. I am a registered Professional Geoscientist in the Province of Ontario (Reg. #1741) and the Province of Saskatchewan (Reg. #10902 non-practicing). I have worked as a technician/geologist for several exploration and mining companies since 1969.
4. I am a Member of the Society of Economic Geologists and Prospectors and Developers Association of Canada.
5. I am not aware of any material fact with respect to the subject matter of this report, which is not included in the report, the omission of which would make this report misleading.

Dated at Oakville, Ontario, CANADA this 6th day of December, 2018.

