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MMI-M Soil Geochemistry

Cobalt-Frontenac Property

Barrie Township, Southeastern Ontario

**Prepared for:
Cobalt-Frontenac Mines Inc.**

Garry K. Smith, P.Geo.
Devon Geological Services Ltd.
Effective Date: Apr. 30, 2019

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1. SUMMARY

1(a) Property Description and Location

The Cobalt-Frontenac Property (the Property) is an early stage gold-silver exploration property located in NTS grid 31C14A, UTM Zone 18 339000E - 4963000N, Barrie Township, Southeastern Ontario. It is situated within staked Provincial Crown Claim 530462, a multi-cell claim comprising 25 cell units with an area of 572 hectares (1,413 acres). Due to the new MLAS on-line staking procedures, only 417 hectares (1,030 acres) are actually available for exploration at this time.



Figure 1: Provincial Location Map

The Cobalt-Frontenac Property is located approximately 18 kilometers northeast of Kaladar, Ontario. It is easily accessible by the Harlowe all-weather road situated approximately 1.6 kilometres east of Highway 41, mid-way between Northbrook and Cloyne. Old logging roads and atv trails cross the central portion of the property.

1(b) Ownership

The Cobalt-Frontenac Property is owned 100% by Cobalt-Frontenac Mines Inc., and there are no underlying royalties.

**Note to reader: The Issuer, and current owner of the property Cobalt-Frontenac Mines Inc., is not in any way associated with the original discoverer Cobalt-Frontenac Mining Company Ltd. Although the occurrence is often referenced in the Government of Ontario files as the Cobalt-Frontenac Property (after the discoverer), for simplicity and clarity going forward, in this Report the property will continue to be referred to as the Cobalt-Frontenac Property.*

1(c) Geology and Mineralization

The Cobalt-Frontenac Property was discovered around 1902 and takes its name from the Cobalt-Frontenac Mining Company, active in the area developing the Addington Gold Mine (Addington) and the Ore Chimney Gold Deposit (Ore Chimney) between 1915 and 1928. Ontario Government geologist Mike Easton (2006) states, in his tectonic classification of gold camps, that “a second, unconformity-related, orogenic type exists, hosted in mafic metavolcanic rocks or carbonate rocks near the unconformity with the metaconglomerates and metaarenites of the Flinton Group. This association may be analogous to the Archean “Timiskaming-hosted” gold deposits.”

Similar to the Addington and the Ore Chimney, the silver and gold mineralization at the Cobalt-Frontenac Property appears to be located within mafic metavolcanics at the unconformity with the Temiskaming-type Flinton Group metasediments. The three properties cover approximately 15 kilometres of the same prospective Tudor-Flinton Unconformity and Shear Zone.

Silver and Gold occurrences along this trend typically consist of zones of quartz and quartz-carbonate (ankerite) veins containing various assemblages of pyrite, pyrrhotite, arsenopyrite and traces of native gold. Locally, such as at the Ore Chimney, veins also contain galena, sphalerite and chalcopyrite.

The prospective Tudor-Flinton Unconformity, which hosts the Addington and the Ore Chimney to the west, bisects the property for over three kilometres at an azimuth of approximately 070°. Gold and silver mineralized zones are predicted to be quartz-carbonate floods with pyrite + pyrrhotite + lead + copper + zinc + arsenopyrite sulphides in regional scale shear zones at the Flinton (clastic metasediments) unconformity with the older Tudor Formation (mafic metavolcanics).

1(d) Historical Exploration

1902: The Cobalt-Frontenac property was discovered and takes its name from the Cobalt-Frontenac Mining Company Ltd. (no relation to the Issuer), active in the area developing the Addington Gold Mine and the Ore Chimney Gold Deposit between 1915 and 1928. The three properties cover approximately 15 kilometres of the same prospective Tudor-Flinton Unconformity and Shear Zone. However, little work was recorded in the Ontario Government Assessment Files until the 1980s.

1942: The Cobalt-Frontenac Mining Company Ltd. carried out stripping, trenching, and sunk a pit about 12 ft deep. This pit, along with several trenches, is believed to be located in the north-west corner of the Property. These locations were sampled by the author during the property visit.

1980s: Homestake Exploration conducted exploration programs on the property, focusing on hydrothermal systems related to the Tudor-Flinton Unconformity and Shear Zone. They were successful in confirming some anomalous gold locations along the western portion of the unconformity with a few significantly anomalous “B” horizon soil samples. They reported that their anomalous gold area did not outcrop at surface, but do not appear to have done any trenching or further work. There is no evidence that the property has ever been drilled.

1(e) Status of Exploration

Cobalt-Frontenac Mines Inc. conducted a field program of MMI-M soil geochemistry and prospecting. Results confirmed a silver and gold zone of mineralization in the Tudor meta-volcanics adjacent to, and paralleling, the Tudor-Flinton Unconformity. The most significant silver-gold-Cu-As-Potassic alteration anomaly was discovered on Line 23, the eastern-most line of the survey grid. It would appear that little, if any, previous exploration for silver and gold has been conducted in the area of this anomaly, nor to the east of it. Additional prospecting east of the MMI grid is recommended for the 2019 field season.

1(f) Conclusions and Recommendation

During a Property Visit, rock samples were taken to potentially confirm the presence of an epithermal gold system along the Tudor-Flinton Unconformity. A pit and a few old trenches were located and sampled, plus samples were taken at a few locations where the Tudor-Flinton Unconformity was observed as a prominent topography contrast.

The trenches sampled by tags 279458, 279459, and 279460 are believed to be from the original Cobalt-Frontenac occurrence. The sample results confirmed the presence of a zone of elevated silver + gold + copper + lead + zinc, with associated iron sulphides, arsenic, antimony, molybdenum and cobalt. Although no potentially economic values were returned from the sampling, the suite of elevated mineralization and alteration is generally believed by the author to be similar to the targeted mineralization of the Addington and Ore Chimney along strike to the west.

The MMI soil survey has demonstrated the ability of the method to identify the critical element assemblage associated with the Ore Chimney and Addington.

The MMI soil survey data revealed elevated silver and gold anomalies in single and multiple samples running the length of the grid (two and a half kilometers) in the mafic volcanics adjacent, and parallel, to the Unconformity. Specifically, the highest gold response is located on the eastern-most extremity of the grid. These results extend the potential of the Property to host potentially economic silver and gold mineralization well east of any previously documented areas of exploration. The strike potential remains open and untested to the east.

It is, therefore, recommended that continued exploration on the Property further to the east of the 2019 programs should continue to utilize prospecting and MMI-M soil geochemical surveys.

2. INTRODUCTION

2(a) Client

This report is being prepared for Mr. Robin Dow of Cobalt-Frontenac Mines Inc., with offices at #408-150-24th Street, West Vancouver, BC V7V 1J5

2(b) Terms of Reference and Purpose of Report

Devon Geological Services Ltd. was commissioned by Cobalt-Frontenac Mines Inc. to carry out an MMIM soil geochemistry survey.

2(c) Sources of Information

The author has prepared this report based upon information believed to be accurate at the time of completion. The historical work noted in this report is taken from assessment files and other documents held by the Ontario Ministry of Northern Development and Mines. Although the historical work was filed by respected professionals at the time, none of their work can be verified by the author and as such, their work should not be relied upon for assessing this project.

2(d) Personal Inspection

The author first visited the Cobalt-Frontenac Property on September 11, 2018. Rock samples were taken to potentially confirm the presence of an epithermal gold system along the Tudor-Flinton Unconformity. A few old trenches were located and samples were taken at locations where the Tudor-Flinton Unconformity was observed as a prominent topography contrast.

Sample descriptions:

Sample	UTME	UTMN	Description
279451	338512	4963130	Mafic volcanic, rusty and silicified
279452	338512	4963130	Mafic volcanic, rusty and silicified
279453	338496	4963118	Arkosic Wacke? with quartz flood
279454	338340	4963087	Trench face, biotite-gneiss, trace arsenopyrite?
279455	338173	4963038	Phyllite, highly sheared, staurolitic?, 258/-85S
279456	339734	4963592	Quartz with 50% semi-massive hornblende 1cm x .5cm, near UC
279457	339305	4963320	Cherty/Arkosic Wacke, chevron folded, hematitic bedding shear planes
279458	338192	4963139	Trench, gossanous green oxide –arsenopyrite?
279459	338131	4963115	Trench, quartz breccia, 3-5% vfg py, silver py xls to 1 cm, minor mag xls
279460	338192	4963139	Trench, gossanous green oxide – arsenopyrite?
279461	339305	4963320	Cherty/Arkosic Wke, chevron folded, hematitic bedding shear planes

Chart 1: Personal Inspection Sample Descriptions

Sample results, selected: (see appendix for all elemental results)

Sample	Au	Ag	Cu	Pb	Zn	Mo	As	Co	Sb	Fe	S
	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
279451	9	0.3	89.6	3.6	18	0.88	1	20.7	0.12	4.7	0.91
279452	<5	0.15	70.4	1.8	34	2.25	2	26	0.13	3.23	0.44
279453	<5	0.01	8.1	1.8	16	1.58	<1	1.5	0.06	0.9	0.02
279454	<5	0.02	31.5	2.1	47	26.72	<1	6.4	<0.05	2.11	0.12
279455	<5	0.05	14.8	3.2	45	1.03	<1	4.6	0.07	1.26	0.01
279456	<5	0.02	5.2	1	41	7.41	<1	8.9	0.07	2.91	0.02
279457	<5	<0.01	1.2	0.5	3	0.92	1	0.9	<0.05	0.8	<0.01
279458	9	0.79	85.1	22.1	216	18.41	45	7.3	1.24	8.13	2.81
279459	<5	0.65	63	7.7	59	1.47	4	2.7	0.1	5.62	2.37
279460	29	1.21	79.6	35.9	55	20.18	207	50.1	2.85	10.7	>5
279461	<5	0.01	1.8	0.7	9	6.54	2	2	0.14	1.07	<0.01

Codes: cm: centimeter

mag: magnetite

py: pyrite

UC: Tudor-Flinton Unconformity

vfg: very fine grained

xls: crystals

Chart 2: Personal Inspection Partial Results

The goal of the site visit was to examine the surface geological features and to locate any historical prospect pits. GPS tracks were generated for all bush roads and atv trails that could provide access to the property for future exploration programs. No impediments to future exploration were observed.

The trenches sampled by tags 279458, 279459, and 279460 confirm the presence of a zone of elevated silver + gold + copper + lead + zinc, with associated iron sulphides, arsenic, antimony, molybdenum and cobalt. Although no potentially economic values were returned, this is a suite of mineralization and alteration that is generally similar to the targeted mineralization of the Addington and Ore Chimney along strike to the west.

3. PROPERTY DESCRIPTION AND LOCATION

3.(a) Location

The property is a single claim, number 530462, and comprises 25 cells. The area of the claim is 572 hectares (1,413 acres). Due to the provincial claim grid being at an angle to the existing “open ground for staking”, the actual area of the available mineral rights is 417 hectares (1,030 acres). The claim is centered approximately on UTM coordinates 339000E and 4963000N

The property is located in Barrie Township, approximately 1.6 kilometres east of Highway #41 on the Harlowe road. (Figure 2, below)

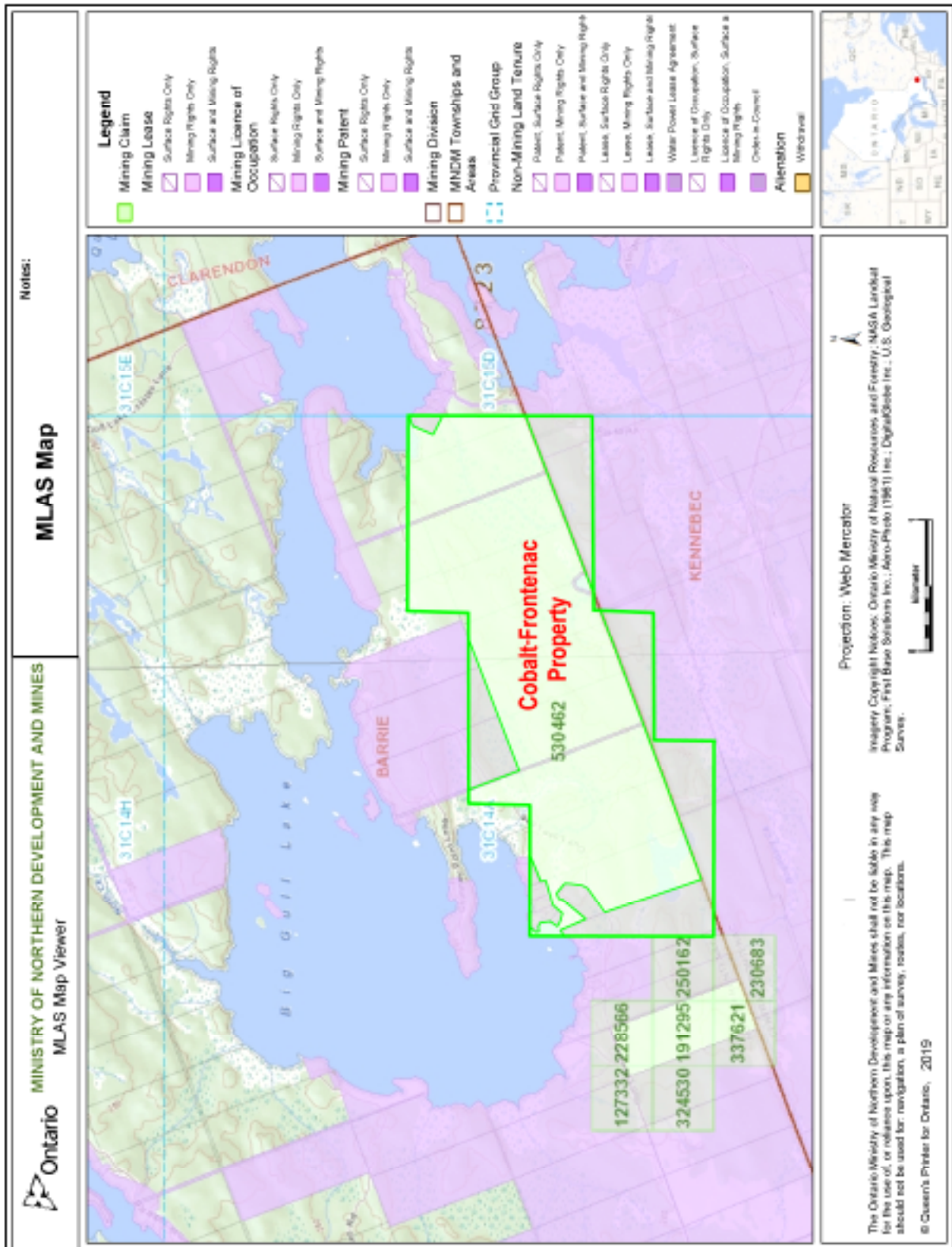


Figure 2: Claim Map

3(b) Mineral Tenure

The following tables sets out the claim tenure information for the Cobalt-Frontenac Property:

Claim Number : 530462			
Claim Number:	530462	View Map:	View Claim 530462 on Map
Cell Claim Type:	Multi-cell Mining Claim	Total Work:	0
Claim Status:	Active	Work Required:	10,000
Number of Cells:	25	Extension Date:	
Registration Date(Issue Date):	2018-09-02	Total Reserve:	0
Anniversary Date:	2020-09-02	Assessment Assignment:	
Encumbered	N	Total Payment In Place:	0
UTM Zone:		Last Payment In Place Date:	
		Consultation Work Reserve:	0
		Exploration Work Reserve:	0
		Conversion Reserve:	

Cell IDs									
31C14A098	31C14A099	31C14A100	31C14A115	31C14A116	31C14A117	31C14A118	31C14A119	31C14A120	31C14A133
31C14A134	31C14A135	31C14A136	31C14A137	31C14A138	31C14A139	31C14A140	31C14A153	31C14A154	31C14A155
31C14A156	31C14A157	31C14A173	31C14A174	31C14A175					

Chart 3: Land Tenure

3(c) Title

The Cobalt-Frontenac Mines Inc. is the 100% owner of the mineral title subject to making the annual work expenditures. The Company is required to file \$10,000 worth of qualifying assessment work by the Claim’s second year anniversary date of Sept. 2, 2020. Failing to do so will result in ownership of the Claim reverting back to the Crown.

Claim ID:	530462
Claim Type:	Multi-cell Mining Claim
Current Anniversary Date:	2020-09-02
Years Applied:	1
Not Encumbered Cells Count:	25
Encumbered Cells Count:	0

Work Required = (Yearly Requirement * Not Encumbered Cells Count + 50% * Yearly Requirement * Encumbered Cells Count) * Years Applied, where Yearly Requirement = 400.00

Hence, work required to advance claim 530462's anniversary date from 2020-09-02 by applying 1 year(s) is: $(400.00 * 25 + 0.5 * 400.00 * 0) * 1 = 10,000.00$

Chart 4: Obligations

3(d) Encumbrances

The author was retained by Cobalt-Frontenac Mines Inc. to acquire this claim by on-line staking. The title of the claim was subsequently transferred from the author to Cobalt-Frontenac Mines Inc. as soon as their account was established with MLAS and the Ontario Government. Cobalt-Frontenac Mines Inc. owns 100% of the claim covering the Cobalt-Frontenac Property (the “**Property**”). There is no underlying NSR.

\$10,000 in qualifying exploration expenditures are required to satisfy the annual assessment work requirement to maintain the Property in good standing. This expenditure is due by Sept. 2, 2020. There are no additional underlying obligations required on the Cobalt-Frontenac Property.

3(e) Environmental Liabilities

To the author’s knowledge, there are no current or pending challenges to ownership of the lands, and the property is not part of any remediation by the MNDM abandoned mines program. There appear to be no known remediation hazards or environmental liabilities.

3(f) Permits

The current work program comprises MMI soil sampling and prospecting. There is neither land nor environmental disturbance planned. As such, Exploration Plans or Permits issued by the Provincial Government are not required for the exploration activities currently being planned on the property. Should future programs include drilling or land disturbance, then plans or permits will be required.

3(g) Other Significant Factors

The First Nations Consultation and Accommodation process poses unknown risks to access and ownership of mineral rights on Crown Lands in Ontario. Although there are currently no known issues that might prevent exploration on the Cobalt-Frontenac Property, a degree of uncertainty remains.

The Ministry of Northern Development and Mines, Mineral Development and Lands Branch has a duty to consult with Aboriginal communities whose treaty or Aboriginal rights have the potential to be adversely affected by mineral exploration and development activities that MNDM regulates. MNDM will fulfill that obligation throughout the life of a project and may involve proponents in the process, as necessary and directed case-by-case.

Further to the Algonquins of Ontario (AOO) receiving notice on September 24, 2018, that the Cobalt-Frontenac Property was staked on Crown Land as Claim number 530462, they responded on January 22, 2019 as follows: *“Based on our initial screening of the lands occupied and surrounding the mining claim, we wish to inform you that at this time the AOO have no concerns regarding your claim but ask that you please keep the AOO apprised of your work and progress.”*

The following First Nations Aboriginal community has been identified:

TRIBAL COUNCIL	Algonquins of Ontario Consultation Office
Contact Name:	Janet Stavinga
Email	algonquins@tanakiwin.com
Mailing Address:	31 Riverside Drive, Suite 101, Pembroke, Ontario, CA, K8A 8R6
Phone:	613-735-3759
Fax:	613-735-6307

Chart 5: First Nations Contact Details

It is highly recommended, as a risk mitigation strategy, that the Company and its contractors maintain an open and respectful relationship with First Nations.

4. ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

4(a) Topography, Elevation and Vegetation

The Cobalt-Frontenac Property occupies an area of low topographic relief hills. Most of the project area is easily accessible by an existing network of atv trails and gravel roads. There are several ridges varying between 15 and 50 metres in height above the marsh lowlands. Vegetation consists of birch, poplar and spruce trees. Birch trees are generally found on the higher ridges which cover the central portion of the property.

The area is characterized by Precambrian bedrock of the Canadian Shield and overlain by marsh and glacial overburden. This overburden is generally thin or absent, and the terrain has rock-and-knob topography. Glacial land forms are limited to occasional esker ridges, and sand plains formed by sediment accumulation in bedrock depressions. Swamp and marsh deposits fill numerous topographic lows and surround many lakes.

4(b) Means of Access

The Property, located in southeastern Barrie Township within the Madoc mining area, is approximately 11 kms northeast along the Harlowe Road from Highway #41. The paved road turns into gravel east of Harlowe and crosses into the north-western portion of the property. This gravel road continues eastward and just north of the property for its entire length. From the gravel road, a few old logging tracks and trails cross the property, proving excellent access for atvs..

4(c) Proximity to Population Center

The property is 2.5 hours by car east of Toronto (GTA population 2.8M) and can be accessed by driving approximately 180 kilometres along Highway #401 to Belleville (population 50,716), north about 40 kilometres on Highway #35 to Tweed (area population 5,600), then north for 17.0 kilometers to Northbrook on Highway #41.

4(d) Climate and Operating Season

The climate of Eastern Ontario is humid continental with large seasonal variations. The region receives close to 250 centimetres (100 inches) of snowfall over an average winter during the months of November to March. Average temperature in January is -6°C (21 °F), but cold spells can often reach -35°C to -40°C.

Summers are fairly warm and humid with July and August temperatures averaging 27°C (80°F), but occasionally exceeding 40°C (100°F).

Average annual precipitation is around 950 millimetres (37 inches) but the spring and fall seasons can see extremes in precipitation. Spring flooding can be quite common due to snow melt and rain.

The climate does not generally hinder the operating season which can run 12 months per year for many activities.

4(e) Sufficiency of Surface Rights

The property is within a 2-hour drive from both Toronto and Ottawa. It is also within a day's drive of the world-class mining districts of Sudbury, Kirkland Lake and Timmins. As such, there is sufficient exploration, mining and environmental expertise, plus supplies and equipment in the region to support all aspects of exploration and potential mining development..

Electric power is locally available between Northbrook and Ardoch. An Ontario Hydro One power supply line intersects the property in at the northwestern corner of the property .

There is a ready supply of water in the area from numerous lakes and rivers. Ground water is also available in abundance due to the observed areas of standing water on the property .

The Harlowe Road is a paved, secondary rural road that becomes gravel as it approaches the property . This main access road is all-season and is kept open during the winter months.

The Cobalt-Frontenac Property covers over 1,000 acres, providing ample space for potential development, tailings storage, waste disposal and processing plant sites.

5. HISTORY

5(a) Prior Ownership

Mineralized occurrences on the Cobalt-Frontenac Property were first discovered around 1902 by the Cobalt-Frontenac Mining Company. They subsequently developed the Addington Gold Mine (Golden Fleece Mine) and the Ore Chimney Gold Deposit between 1915 and 1928.

The Property was again the focus of intensive prospecting activity during 1930 - 1938. This was evidently in response to favourable market conditions for gold mine development and interest generated by on-going development of the Addington Gold Mine 15 km to the southwest. Most of the work conducted during this period was not reported in the Government Assessment Files due to it being conducted on privately held and patented land. Documented Assessment Work was first filed on the Cobalt-Frontenac Property during 1982.

5(b) Exploration By Previous Owners

1982: Sulpetro Minerals did line-cutting and filed ground geophysical surveys for magnetics and VLF.

1985-1989: Homestake Development Company conducted a regional exploration program to evaluate the regional metallogenic significance of the Tudor-Flinton Unconformity. They sampled

the known gold occurrences in the area and staked potentially prospective Crown Lands including the Cobalt-Frontenac Property. Geological mapping, B horizon soils and minor humus sampling programs were completed and filed for assessment with the Ministry.

Homestake's geological mapping was general in nature and conducted before the availability of hand-held GPS. However, their work generally agreed with Ontario Government Maps and they confirmed the presence of the prospective Tudor-Flinton Unconformity. Homestake's B horizon soils survey generated a significant single site gold anomaly proximal to the interpreted location of the Unconformity. Their work, for the most part, focussed on the western half of the current Property. They did not follow-up their gold in soils anomaly and left the area shortly thereafter.

2012: Local prospectors Marc Thomas Forget and Diane Louise Milligan filed two reports titled Soil and Lithochemistry of the Harlowe Shear Zone and of the Harlowe Conglomerate Project. Their work covered the area hosting the Cobalt-Frontenac Property. Some of historic pits and trenches on the property were sampled without returning any significant gold-silver results.

6. GEOLOGICAL SETTING AND MINERALIZATION

6(a) Regional, Local, and Property Geology

Regional Geology

The Property lies within the Mazinaw Domain of the Proterozoic Central Metasedimentary Belt in the Grenville Province of the Canadian Shield. Easton's (2006) geological mapping for the Ontario Geological Survey has defined a tectono-stratigraphic framework for the Central Metasedimentary Belt and identified the Mazinaw Domain consisting of a 1,275 Ma to 1,240 Ma calc-alkalic metavolcanic and metasedimentary "arc" succession in the south, and a "rifted-arc" tholeiitic metavolcanic and related metasedimentary succession in the north, with metasedimentary rocks of the Flinton Group marking the approximate boundary between the arc and rifted-arc.

The rifted-arc succession is south-facing and consists of a gabbro-amphibolite-tonalite basement rocks cut by granite. They are overlain by metavolcanic rocks that interfinger with, or are overlain by, siliciclastic and carbonate metasedimentary rocks. The arc succession is north-facing on a regional scale and consists of the Tudor Formation tholeiitic metavolcanics overlain by calc-alkalic metavolcanics that interfinger with, or are overlain by, siliciclastic and carbonate metasedimentary rocks.

Distribution and composition of overlying Flinton Group strata varies depending on which succession they overlie. In the arc, the Flinton Group is dominated by metaarenites and metaconglomerates.

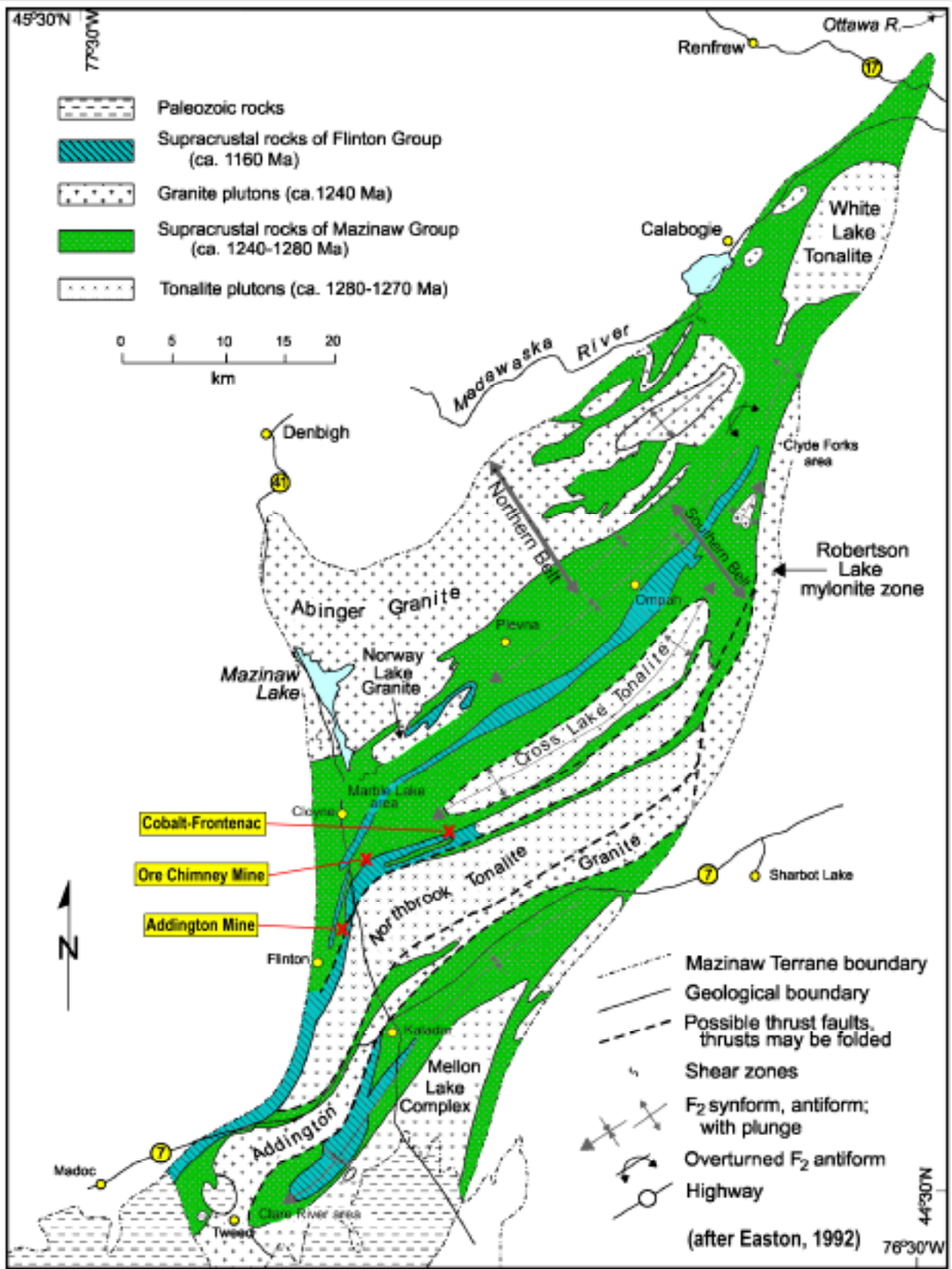


Figure 3: Easton's Regional Geology

The Mazinaw Domain has been subjected to at least 2 metamorphic episodes. M1 reached upper amphibolite to granulite facies and affected all rocks older than the Flinton Group. It was accompanied by intense deformation, D1, that formed much of the penetrative fabric currently evident. D1 was accompanied by thrusting and isoclinal folding which formed regional fold structures in the area, and is likely greater than 1,160 Ma in age. The second metamorphic event, M2, affected the Flinton Group and all older rocks about 1,020 Ma in age.

A variety of mineral occurrences have been noted in the Mazinaw Domain. Gold mineralization is generally found in association with major regional shear zones at the greenschist-amphibolite facies metamorphic transition. The locations of the Addington and Ore Chimney Gold Mines are located adjacent to the unconformable contact between the Flinton Group clastic metasediments and the underlying Tudor Formation arc-related metavolcanics, where a regional shear structure provides for the localization of gold and silver mineralization.

Local Geology

The Tudor Formation mafic metavolcanics consist of hornblende-plagioclase gneiss and schist. Preserved primary pillow-lava textures are known throughout the area, confirming the mafic metavolcanic origin of the formation. The overlying Flinton Group metasediments have been (historically) divided into three formations. The lowermost Ore Chimney Formation consists of hornblende-biotite-garnet schists and often contains the gold mineralized quartz veins associated with the Addington and Ore Chimney Gold Mines. This Formation is unconformably overlain by the Bishops Corners Formation consisting of metaarkose, quartzite, and quartzite pebble conglomerate. The uppermost Lessard Formation consists of calcareous, quartzofeldspathic, meta-sandstone and gritty sandstone conglomerate.

Geological Formations Exposed on the Cobalt Frontenac Property	
<u>STRATIGRAPHIC UNIT</u>	<u>LITHOLOGY</u>
FLINTON GROUP	
Lessard Formation	Calcareous Quartzo-Feldspathic metasandstone and gritty sandstone conglomerate
Bishop Corners Formation	Meta-arkose, quartzite and quartzite pebble conglomerate
UNCONFORMITY	
* Ore Chimney Formation	Hornblende-biotite-garnet schist, hornblende-biotite schist
HERMON GROUP	
Tudor Formation	Hornblende-plagioclase gneiss and schist, hornblende-chlorite ± biotite amphibolite schist

Chart 6: Geological Formations

Dillon (1985) describes the Tudor Formation mafic metavolcanics exposed on the Addington Property as fine to medium-grained, medium to dark green amphibolites. The predominant textural type is a medium-grained, dark green and buff, well-foliated schistose to gneissic amphibolite that exhibits moderate segregation of mafic (hornblende with minor chlorite) and felsic (plagioclase and minor quartz) components into their discontinuous bands and lenses one to three mm wide. Amphibolite also occurs as fine-grained, dark green to black, foliated to fissile schist with local 2-5% subhedral, fine-grained, disseminated pyrite.

The Ore Chimney Formation is a 2 to 10 metre wide unit of fine to medium-grained, dark green to black, hornblende-biotite-garnet schist that is somewhat magnetic. It contains 5 to 30% subhedral to euhedral dark red to black garnet porphyroblasts (0.3 to 1 centimetres). This unit often hosts quartz-tourmaline-arsenopyrite gold veins. There is uncertainty as to whether the Ore Chimney Formation represents a primary stratigraphic unit formed from a tuffaceous volcanic sequence that was present prior to the deposition of the overlying Flinton Group, as preferred by the author, or if it developed as a result of shearing at the Tudor Formation/Flinton Group contact, as preferred by Dillon (1985).

The Bishop Corners Formation unconformably overlies the Tudor and Ore Chimney Formations. The basal part of the Bishops Corners Formation is a 10 to 30 metres thick unit of massive, fine to medium-grained, metaarkose that is buff-tan coloured and composed of quartz with minor feldspar, muscovite and traces of biotite. The overlying quartzite-pebble conglomerate contains 0.5 to 2metres thick quartzite interbeds that are locally well-laminated and cross-bedded. The quartzite-pebble conglomerate consists of 60-80% of 1 to 15 centimetre elongate pebbles and cobbles in a medium-grained matrix of micaceous quartzite to arkose. Pebbles and cobbles include buff-tan to white, laminated to cross-bedded quartzite, white quartz; and dark grey to black finely bedded quartzite.

Property Geology

The Cobalt-Frontenac Property gold mineralization is most likely to be hosted by the tholeiitic mafic metavolcanic rocks of the Tudor Formation adjacent to the Unconformity with the overlying Bishops Comer Formation quartzite and quartz-pebble conglomerate metaclastics of the Flinton Group.

Tudor Formation: The oldest rocks in the area are the mafic volcanics of the Tudor formation (Hermon Group, Grenville Supergroup; Lumbers, 1967). They are tholeiitic basalts and minor intermediate pyroclastics (Sethuraman and Moore, 1973) which have been dated at 1279 ± 3 Ma by U-Pb isotopic method on zircon (Heaman et al., 1987). These are overlain by basaltic to felsic subalkaline volcanic rocks (the Mazinaw Lake and the Kashwakamak formations; Ayer, 1979; Harnois and Moore, 1987) and by clastic and carbonate sedimentary rocks (Moore and Morton, 1986). This succession has been intruded by large granitoid plutonic bodies, of which the Elzevir batholith has been dated by U-Pb isotopic method at 1226 ± 25 Ma and at 1240 ± 50 Ma by Rb-Sr (Bell and Blenkinsop, 1980; Connelly, 1987).

Ore Chimney Formation: A metapelite unit that is dark grey to black-weathering biotite schist, typically with conspicuous reddish garnet porphyroblasts that occurs at, or near, the top of the Tudor mafic volcanics. When present, the formation is typically less than 10 metres thick and composed of alternating layers of biotite, muscovite-biotite, hornblende-biotite, and hornblende schist.

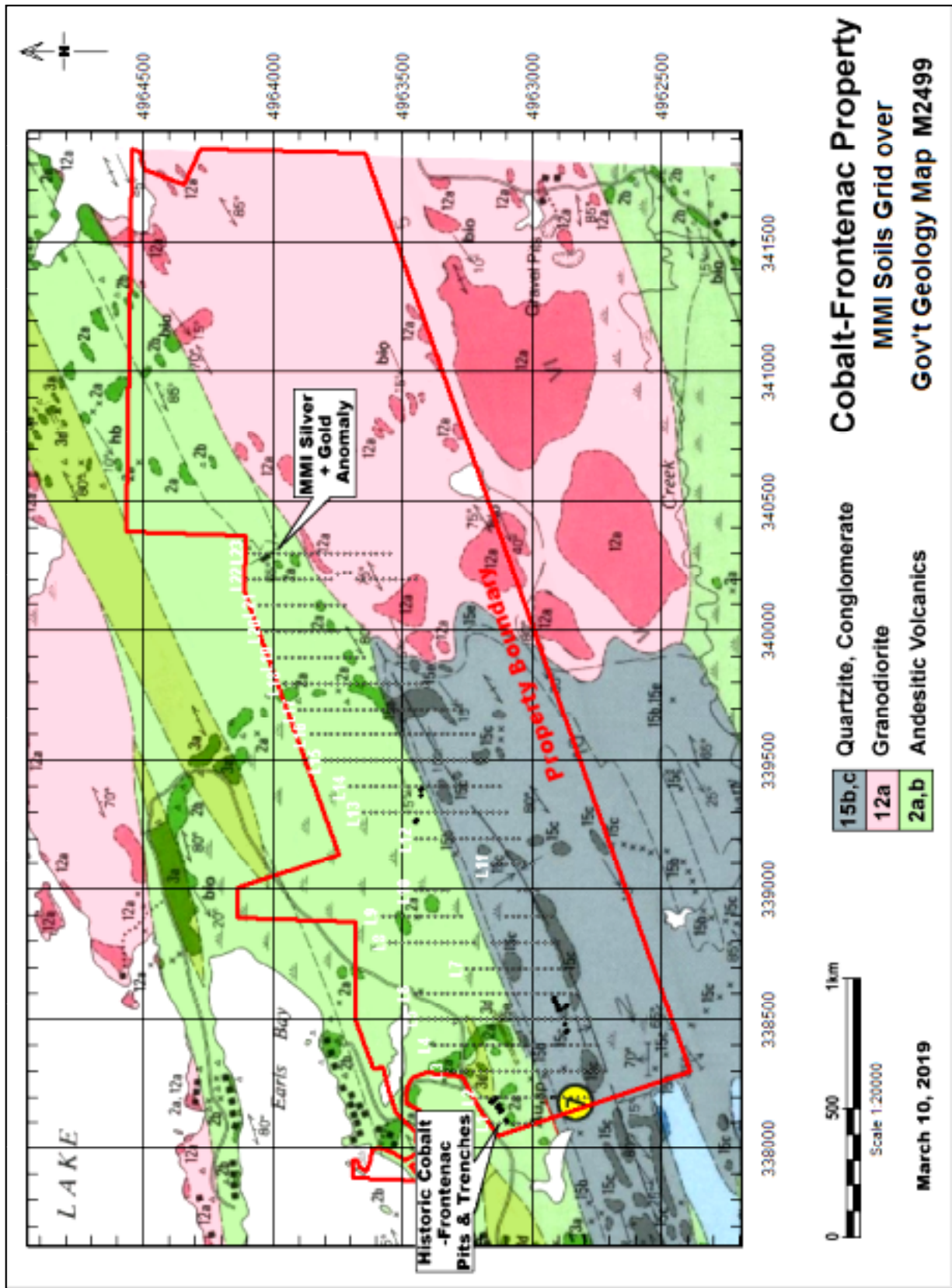


Figure 4: Property Geology Map

Thirty-five samples of the Ore Chimney Formation, fifty samples of the underlying metavolcanics and fourteen samples of the overlying clastic metasediments were analyzed for the major elements and twenty eight trace elements (including REE) by Harnois & Moore, 1988.

They concluded that immobile trace-element ratios (Ti/Zr, Zr /Y, Nb/Y, La/Yb) suggest the Ore Chimney Formation is locally derived from the underlying metavolcanics. They further claim bulk chemistry, field relations and petrographic observations strongly suggest that the Ore Chimney Formation is a locally -reworked weathering product of the metavolcanic rocks. This conclusion is consistent with observations made by the author elsewhere in the area.

The Bishop Corners Formation: A 15 meter-thick basal fine-grained quartzite, is overlain successively by a conglomerate at least 60 metres thick and a 20-100 meter-thick arenaceous unit. At the Ore Chimney Mine, a 5 metre-thick layer of magnetite-bearing muscovite-quartz schist, typically containing small flattened clasts of quartz, quartzite and mica schist lies at the base of the quartzite. The quartzite is light grey or white and exhibits cross-bedding throughout, marked by hematitic laminae. Abruptly overlying, and in sharp contact with, the quartzite is an oligomictic conglomerate comprising clast-supported quartzite pebbles and cobbles, with a hematitic muscovite-quartz matrix. The conglomerate is overlain by quartzo-feldspathic and pebbly arenite, and quartzite.

Plutonic Rocks: Intrusions of diorite to granodiorite are common in areas where mineralized quartz vein systems occur.

6(b) Significant Mineralized Zones

The gold-silver-copper-lead-zinc mineralization occurring at the Ore Chimney Mine to the west is hosted in a quartz-vein system localized within sheared hornblende-biotite-garnet schist (Ore Chimney Formation) near the contact between underlying mafic metavolcanics of the Tudor Formation and unconformably overlying quartzite and quartz-pebble conglomerate of the Bishop Corners Formation, Flinton Group. The MMI soil survey completed over the Cobalt-Frontenac Property confirms the existence of a similar, 50 metre wide zone running parallel to the Tudor-Flinton Unconformity.

Sulphide mineralization at the Ore Chimney Mine occurs as disseminations and pods concentrated along quartz vein margins and within host rocks between quartz stringers. Sulphide minerals include pyrite, sphalerite, galena and chalcopyrite. Gold is reported to occur free in quartz gangue (Meen 1942). Like the Ore Chimney, the MMI anomaly running the length of the Cobalt-Frontenac Property grid is silver-rich with associated gold. The zone also has elevated copper, zinc and lead.

Economic Geology

No economic deposits of minerals have been discovered on the Property to date.

7. DEPOSIT TYPES

7(a) Orogenic Deposit Type

Open File Report 5454: Precambrian Geology of the Cloyne–Plevna–Ompah Area, Northern Mazinaw Domain, Grenville Province (Easton, R.M., 2006) states that “the gold potential of the Central Metasedimentary Belt is probably underestimated, with past exploration not necessarily focused on the areas of highest potential.”

A revised classification of the Central Metasedimentary Belt gold “camps”, based on age and possible origin of the mineralization, indicates that the following deposit type is most likely to be applicable to the Cobalt-Frontenac Property.

Easton states that “Orogenic” type of deposit is a shear-zone hosted system similar to those observed in Archean greenstone belts. It is typically hosted in metavolcanic sequences, and may be associated with major domain and terrane boundaries. A second, unconformity-related, orogenic type exists, hosted in mafic metavolcanic rocks or carbonate rocks, but associated near the unconformity with the metaconglomerates and metaarenites of the Flinton Group. This association may be analogous to the Archean “Timiskaming-hosted” gold deposits. The age of the second orogenic type is difficult to determine. It is likely younger than the maximum depositional age of the Flinton Group, namely 1160 Ma, but has likely been reworked during 1020 Ma high-grade metamorphism in Mazinaw terrane.

According to Easton, The Cobalt-Frontenac Property, Addington Mine, and Ore Chimney Mine are believed to be Orogenic deposit types.

Definition: The term orogenic gold deposits was proposed by Groves et al. (1998). Orogenic gold deposits are associated with regionally metamorphosed terranes of all ages. They form at convergent plate margins and are built by gold-bearing quartz veins, often with very simple mineralogy. They are characteristic by a relatively high temperature and pressure of ore deposition (see below) which distinguishes them from a number of other types of gold deposits. Their fluids are also characteristic by increased CO₂ content. (Groves et al. (1998))

Geometry: The structures hosting the gold deposits (shear zones, faults, extensional veins, breccia) are typically discordant with respect to the stratigraphic layering of the host rocks, but in some cases they can be parallel to bedding planes and fold hinges or intrusive contacts. This reflects the epigenetic nature of the gold deposits and the influence of strength anisotropy on their development. The mineralized structures display syn- to post-mineralization displacements, such as striated slip surfaces with hydrothermal slickenlines, and folding and boudinage. This indicates that the gold deposits are syn-tectonic. Veins and structures in the wallrocks typically record reverse-oblique movements along the associated shear zones and faults.

In metamorphic greenschist grade settings, hydrothermal alteration assemblages are typically superimposed on the regional metamorphic mineralogy of the host rocks. Therefore, the gold deposits are interpreted as post-peak metamorphic. However, the relationship is more ambiguous in higher metamorphic grade environments where hydrothermal alteration is reported as syn-metamorphic, and in other cases as overprinted by deformation and regional metamorphism. (Groves et al. (1998))

Mineralogy: Veins in orogenic gold deposits are dominated by quartz with subsidiary carbonate and sulfide minerals, and less abundantly, albite, chlorite, white mica (fuchsite in ultramafic host rocks), tourmaline, and scheelite. Carbonate minerals consist of calcite, dolomite and ankerite. Gold occurs in both veins and adjacent wallrock. Gold is usually intimately associated with sulfide minerals, including pyrite, pyrrhotite, chalcopyrite, galena, sphalerite, and arsenopyrite. In volcano-plutonic settings, pyrite and pyrrhotite are the most common sulfide minerals in greenschist and amphibolite grade host rocks, respectively, while arsenopyrite is the predominant sulfide mineral in ores hosted by sedimentary rocks. Tellurides can be significant ore minerals in some deposits. (Groves et al. (1998))

7(b) Orogenic Deposit Type Geochemical Signature

As Groves et al. (1998) notes, there is an epigenetic nature to orogenic type gold deposits. (Epigenetic deposits form after the formation of the surrounding rocks)

7(c) Targeting

The migration of target elements like silver and gold is promoted by a developing environment of dilation of the various structures, and the generation of metamorphic fluids from thermal fronts associated with regional metamorphism, granitization and granitic injection.

The most recognized elemental indicators for targeting primary alteration halos in geochemical surveys used to search for gold and silver deposits are Au, Ag, As, Sb and Hg. However, Zn, Pb, Cu, B, Ba and W can also be useful indicators in some deposits.

It is necessary to caution the reader that the presence of significant mineralization or mineral deposits on nearby properties like the Ore Chimney and Addington does not guarantee that further exploration on the Cobalt-Frontenac Property will result in the discovery of similar deposits.

8. EXPLORATION

8(a) Procedures and Parameters of Surveys

A two and a half kilometre strike length of the Tudor-Flinton Unconformity was bracketed with an MMI-M GPS-located sample grid. The Unconformity is often manifest by a linear topographic feature of ridge-bounded marsh that separates mafic volcanics to the north from arkosic and conglomeratic sediments to the south. It appears that this conspicuous topographic feature also represents a regional fault/shear zone marking a time unconformity between older mafic flows and younger (Timiscaming style) conglomerates.

Elevated and anomalous silver and gold MMI responses indicate the presence of a mineralized depositional environment over two and a half kilometres in length starting at the western border of the Property. The mineralized zone remains open to the east of the current MMI grid.

The predominant sampling medium is a Podzolic sandy loam soil profile, which is an ideal sampling medium for MMI-M soil surveys on the Property. Sampling protocols utilized in an earlier orientation survey and case study in the area by the author were rigorously followed during this MMI-M soil geochemistry survey.

MMI is an exploration geochemical technique that uses selective and partial digestions, coupled with state-of-the-art instrumentation capable of measuring concentrations in the parts per billion (ppb) and sub-ppb range. MMI can often "see through" overburden and derive useful mineral data for drill targeting of specific multivariate anomalies.

The multi-element digest "MMI-M" has been developed to provide analyses for **53** elements at ppb and sub-ppb concentration levels for base and precious metals, pathfinder elements, rare earths and rare metals, and elements useful for mapping bedrock and alteration geology obscured by overburden.

8(b) Sampling Methods

MMI-M soil samples, each weighing between 250-500 grams, were collected at 25 metre intervals along a GPS located grid. Sample locations were documented according to line coordinates and hand-held GPS readings (NAD83, Zone 15) at each station. Samples were collected from a consistent depth according to MMI protocols and orientation work parameters established by the author. Samples were collected with a stiff vinyl trowel after the initial sample site was dug with an MMI sampling spade. The spade was kept clean and without paint or rust. Samples were bagged on site, without preparation, except for the occasional removal of rock fragments greater than 2 millimetres in diameter. The samples were kept secure until the end of the survey, at which time they were delivered to the SGS Laboratories in Lakefield, Ont. for MMI-M analysis. SGS subsequently shipped the samples to their Vancouver MMI analyses facility.

SGS generated analytical duplicates and inserted standards to monitor analytical reproducibility. Analytical reproducibility of the SGS-generated duplicate pairs is excellent over the observed range of concentration levels. Overall, the analytical data is considered to be of good quality and suitable for interpretation.

8(c) Relevant Information

This soil geochemical survey is based on the Mobile Metal Ions Process Technology (MMI-M) analysis of 421 out of a possible 463 sample sites. 42 sites were not suitable for sampling as they were located in marsh or on outcrop. The survey was conducted by Garry Smith, P.Geo, Jim Laidlaw, and Dave Richards, of Devon Geological Services Ltd.

An approximate two and a half kilometre strike length of the Tudor-Flinton Unconformity was bracketed with an MMI-M GPS-located sample grid, with cross lines every 100 metres and line sample sites every 25 metres. The Unconformity is often manifest by a linear topographic feature

often manifest by a linear topographic feature of ridge-bounded marsh that separates mafic volcanics to the north from arkosic and conglomeratic sediments to the south. It appears that this conspicuous topographic feature also represents a regional fault/shear zone marking a time unconformity between older mafic flows and younger (Timiscaming-style) conglomerates.

The simple statistics of the MMI-M analytical results are as follows:

Area of Survey: 1,373,372 square metres 339.4 acres

Field	Sites	Min	Max	Mean	STD	25th	Field	Sites	Min	Max	Mean	STD	25th
Ag	421	0.25	115	9.26	10.34	1.15	Nb	421	0.25	27.4	2.10	3	0.25
Al	421	13	406	186.92	53.2	64.28	Nd	421	3	3820	112.52	232.15	10.9
As	421	5	70	5.96	4.61	5	Ni	421	10	965	102.24	81.29	24.54
Au	421	0.05	0.6	0.06	0.06	0.05	P	421	0.05	15.6	1.48	1.39	0.23
Ba	421	50	11200	1005.04	1142.65	145.17	Pb	421	9	2410	320.27	295.47	43.55
Bi	421	0.25	4.9	0.35	0.38	0.25	Pd	421	0.5	0.5	0.50	0	
Ca	421	1	626	75.96	97.92	3.79	Pr	421	0.6	889	25.13	53.04	2.29
Cd	421	2	126	30.76	18.18	7.03	Pt	421	0.05	0.05	0.05	0	
Ce	421	7	1690	162.29	179.18	17.32	Rb	421	29	768	153.78	76.7	46.12
Co	421	2	591	62.81	71.06	8.11	Sb	421	0.25	4.2	0.50	0.5	0.25
Cr	421	50	200	51.54	13.5	50	Sc	421	2.5	134	28.67	16.95	8.14
Cs	421	0.3	98	8.94	7.51	1.72	Sm	421	0.5	720	25.39	47.12	2.59
Cu	421	20	3220	242.87	276.01	41.56	Sn	421	0.5	13	0.84	1.15	0.5
Dy	421	0.8	426	27.32	37.53	3.4	Sr	421	5	1650	176.63	217.07	16.91
Er	421	0.5	206	14.41	19.39	1.93	Ta	421	0.5	1	0.50	0.03	
Eu	421	0.1	149	6.18	10.28	0.68	Tb	421	0.05	78.9	4.30	6.42	0.51
Fe	421	2	383	45.60	50.16	7.36	Te	421	5	5	5.00	0	
Ga	421	0.25	68.9	10.74	8.33	2.21	Th	421	0.8	91.4	14.34	11.95	2.08
Gd	421	0.9	637	26.92	45.92	2.78	Ti	421	5	11100	959.96	1371.58	70.04
Hg	421	0.5	3	0.56	0.22	0.5	Tl	421	0.1	3.1	0.92	0.48	0.29
In	421	0.05	0.4	0.08	0.07	0.05	U	421	0.8	80.2	9.61	11.16	1.34
K	421	2.4	81.7	12.00	8.39	3.51	W	421	0.25	3.3	0.38	0.34	0.25
La	421	3	2710	75.93	158.31	7.72	Y	421	4	2550	143.42	216.19	17.51
Li	421	0.5	54	3.90	4.76	0.53	Yb	421	0.4	171	10.91	14.8	1.47
Mg	421	0.25	60	6.09	7.52	0.61	Zn	421	40	9060	1410.19	1526.83	116.27
Mn	421	50	34200	2078.50	2605.02	213.25	Zr	421	1	65	10.53	6.76	2.17
Mo	421	1	24	1.68	1.57	1							

Note: 25th refers to the 25th percentile, commonly accepted as the threshold value for background noise.

Chart 7: Simple Statistics of the MMI-M analytical results

8(d) Significant Results and Interpretation

As noted previously, the most recognized elemental indicators for targeting primary alteration halos in geochemical surveys used to search for the target gold and silver deposits are Au, Ag, As, Sb and Hg. However, Zn, Pb, Cu, B, Ba and W can also be useful indicators in some deposits. See Charts below for MMI responses with respect to these key targeting elements.

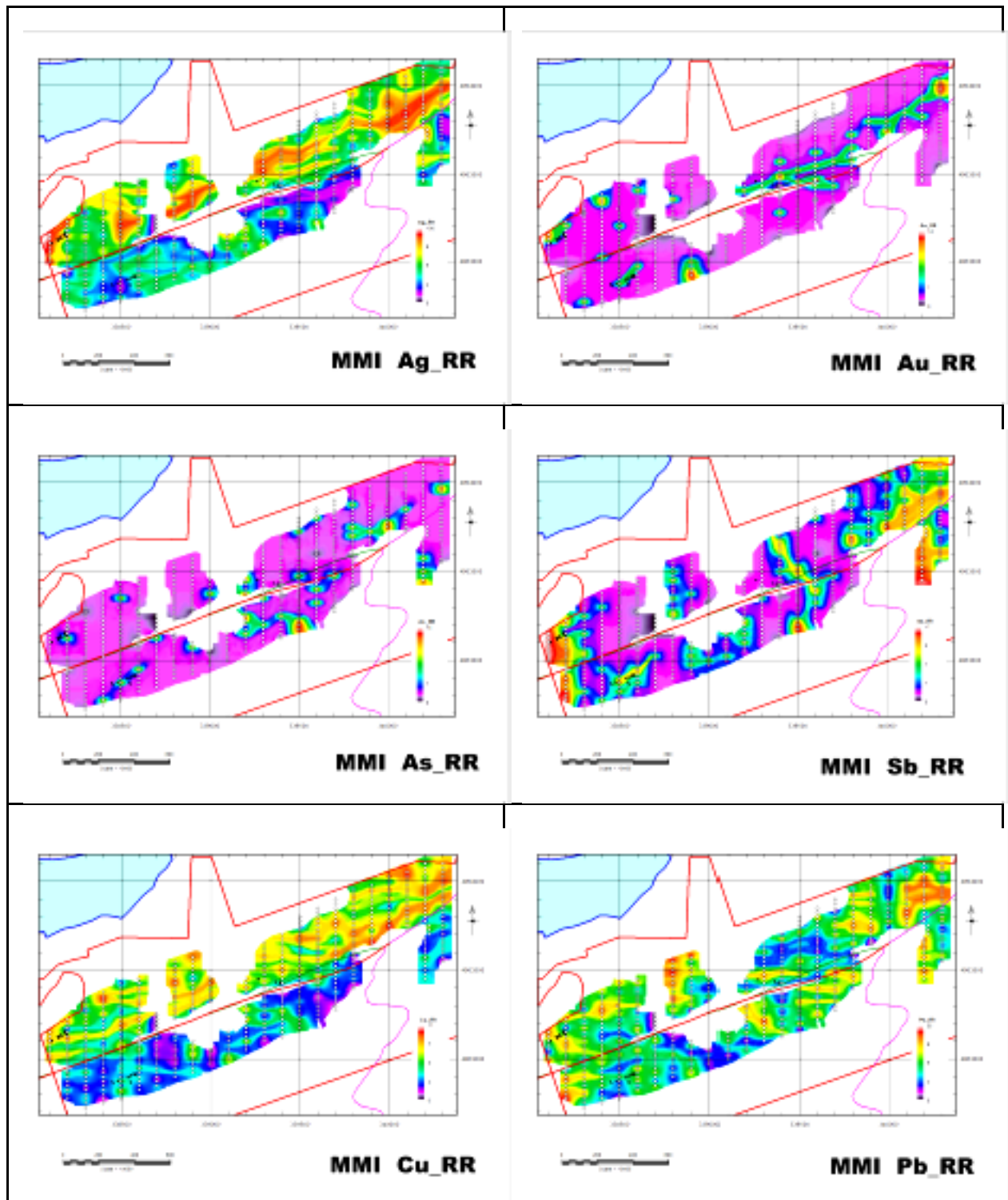


Chart 8: Matrix of Key Target Markers

As can be seen in the images above, there is a strong correlation amongst the key target elements Ag, Au, As, Sb, Cu and Pb.

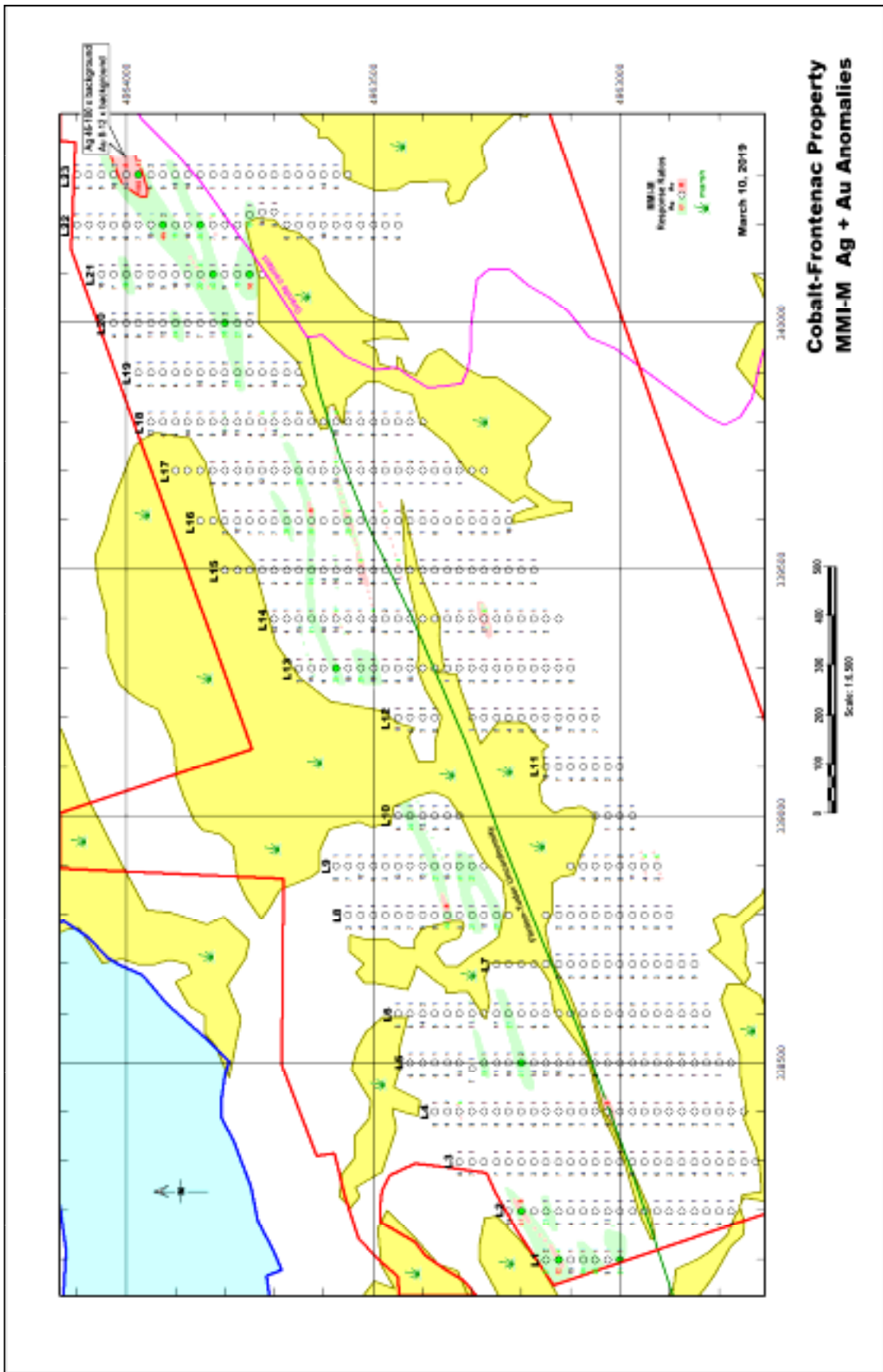


Figure 5: Ag+Au MMI-M Response Ratios Map

The MMI-M survey data revealed elevated silver and gold anomalies in single and multiple samples running the length of the grid (two and a half kilometres) in the mafic volcanics adjacent to the Unconformity. Specifically, the highest silver + gold response is located on the eastern-most extremity of the grid on L23. Silver was 100 times background and gold was 12 times background. The Cobalt-Frontenac pits and trenches at the north ends of L1 and L2 returned 52 to 61 times background for silver, and 4 to 8 times background for gold. (a larger format map is available in the Appendix)

These results confirm MMI's capability to detect known weak mineralization, and extend the potential of the Property to host potentially economic silver and gold mineralization well east of previously explored areas. The strike potential remains open and untested to the east.

9. SAMPLE PREPARATION, ANALYSES AND SECURITY

9(a) Sample Preparation Methods and Security

The samples taken in the field were put into sealed plastic Ziploc sample bags with a plasticized sample tag number. The sealed bags were kept secure in a locked vehicle until the end of the survey, at which time they were delivered directly to the SGS Laboratories in Lakefield, Ont. for analysis.

9(b) Assaying and Analytical Procedures

The SGS Labs codes for MMI-M analysis are as follows:

Work Order : VC184716		
[Report File No.: 0000033765]		
Date: January 21, 2019		
To: Garry Smith	P.O. No.: TEST: 421 Samples	
DEVON GEOLOGICAL SERVICES LTD	Project No.: -	
3267 STONECREST ROAD RR#2	Samples: 86	
WOODLAWN ON K0A 3M0	Received: Dec 17, 2018	
<u>Methods Summary</u>		
<u>No. Of Samples</u>	<u>Method Code</u>	<u>Description</u>
421	G_LOG02	Pre-preparation processing, sorting, logging, boxing
421	GE_MMI_M	Mobile Metal ION standard package/ICP-MS
<u>Storage: Pulp & Reject</u>		
REJECT STORAGE	:	DISPOSE AFTER 30 DAYS
PULP STORAGE	:	DISPOSE AFTER 90 DAYS

Chart 9: SGS Labs, Codes for MMI-M Analysis

SGS Canada Inc Geochemistry Laboratories operate under a Quality Management System that complies with ISO/IEC 17025. ISO/IEC 17025 addresses both the quality management system and the technical aspects of operating a testing laboratory. Quality control procedures are method specific and include blanks, duplicates, replicates, control samples, certified reference materials as appropriate for the methodology. Repeat analysis is performed when failure to meet internal data acceptance criteria occurs or when requested by a customer.

Quality control (QC) types include preparation blanks, preparation duplicates, pulp replicates, method blanks and reference materials. These are defined as follows:

Preparation blank: A barren material which undergoes sample reduction identical to that carried out for the test samples (includes sample reduction, chemical decomposition and finish). Blank results are used to assess contamination and/or may provide background correction to analyte concentrations.

Preparation Duplicate: A second sample (split) taken during the sample reduction stage (after crush) and representative of the same sub-sample population and carried through all steps of the sample reduction and chemical decomposition procedures in an identical manner.

Pulp Replicate: Two or more test portions taken from the same sub-sample preparation pulp and carried through all steps of the chemical decomposition procedures in an identical manner.

Method blank: A blank which undergoes sample processing identical to that carried out for the test samples (includes the digest and finish). Blank results are used to assess contamination and/or provide background correction to analyte concentrations.

Certified Reference Materials: Representative materials accompanied by documentation issued by an authoritative body and providing one or more specified property values with uncertainties and traceabilities, using valid procedures.

9(c) Quality Control

In addition to the 421 MMI-M soil samples submitted, Quality Control Procedures and Assurance results inserted 24 Replicates, 6 Standards, and 11 Blanks into the sample analysis stream. All Standards, Replicates, and Blanks were within the 95% Confidence and Tolerance limits.

9(d) Adequacy of Sample Preparation, Security and Procedures

It is the author's opinion that all MMI-M soil sample results met the expected norm for adequacy of preparation, security and analytical procedures. The results certified and reported are therefore suitable for the purpose of this report.

10. DATA VERIFICATION

10(a) Data Verification Procedures Applied

The 421 MMI-M soil samples taken during the property visit were located using hand-held GPS and the results were reported by ISO certified SGS Labs.

The MMI-M program was supervised by the author. All field procedures, GPS data recorded, and results reported by SGS Labs were checked and verified by the author for accuracy.

The MMI-M soil samples submitted to SGS Labs had Standards, Replicates, and Blanks inserted into the sample analysis stream and all certified results were found to be within the 95% Confidence and Tolerance limits.

10(b) Limitation or Failure of Data Verification

There were no limitations imposed on the author with respect to data verification.

10(c) Adequacy of Data

The author has reviewed the QA/QC protocols used in the verification of the MMI-M data on the Cobalt-Frontenac Property and found them to be adequate for a project at this early stage.

11. ADJACENT PROPERTIES

The author is unaware of any significant exploration results on immediately adjacent mineral properties.

The author considers the geology, alteration, and geochemical elemental associations at the Cobalt-Frontenac Property to be part of the same mineralizing system present on the Ore Chimney Property. However, the public information available regarding the Ore Chimney mineralization cannot be verified by the author and as such, the reader is cautioned that any historical information referenced is not necessarily indicative of any potential mineralization on the Cobalt-Frontenac Property.

12. OTHER RELEVANT DATA AND INFORMATION

There is no additional information known, or explanation necessary, to make this technical report on the Cobalt-Frontenac Property more understandable and not misleading.

13. INTERPRETATION AND CONCLUSIONS

A comparison between the MMI responses over the Cobalt-Frontenac occurrence on L2

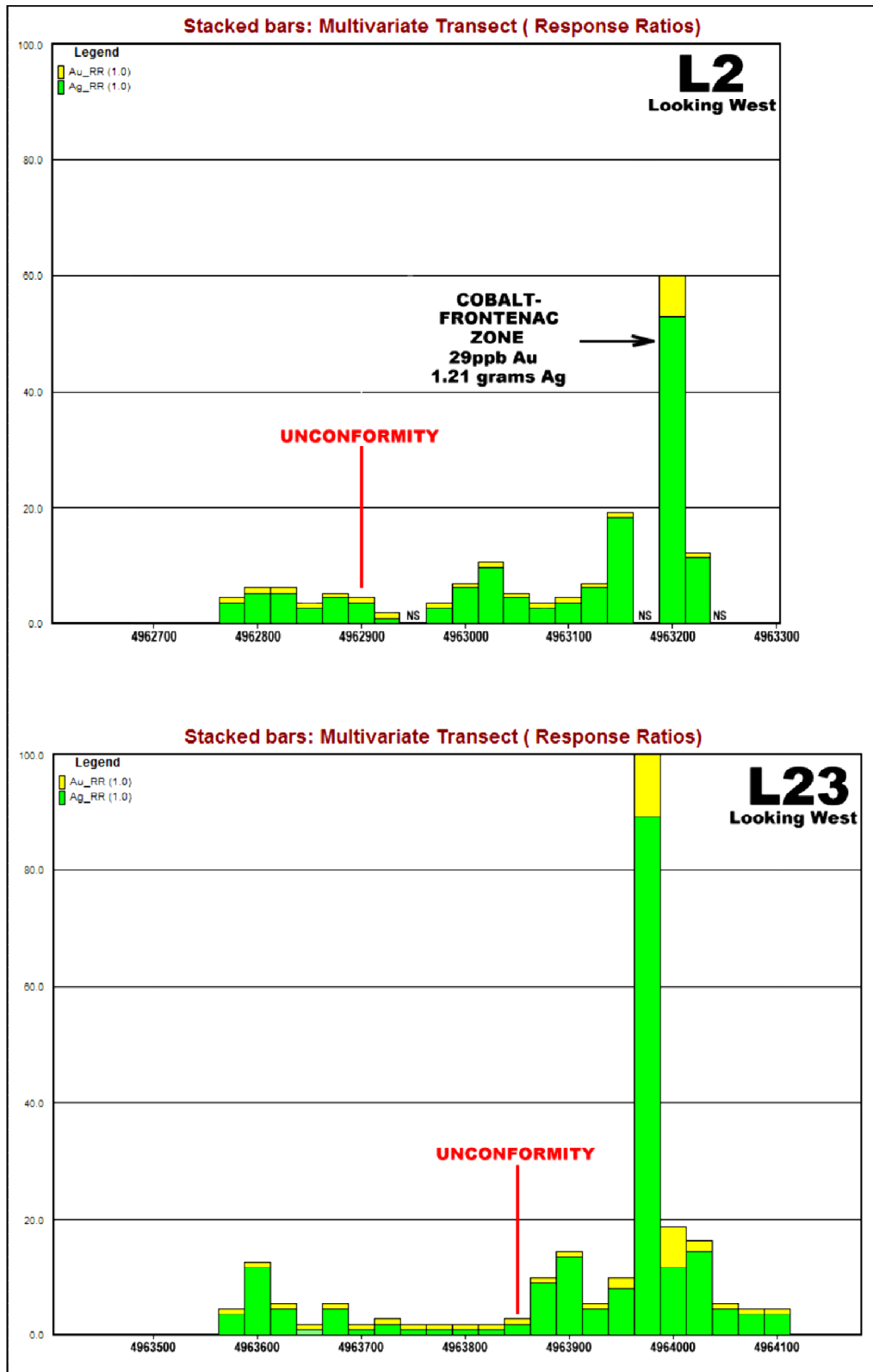


Figure 6: Comparison of L23 Anomaly to known Mineralization

and the anomaly on L23 reveals a similar pattern, but significantly stronger on L23. L23 is a broader and higher contrast zone of silver and gold enrichment, and it is adjacent to the Tudor-Flinton Unconformity. The targeting parameters are optimal for the L23 anomaly.

Therefore, the following conclusions can be drawn from the MMI-M survey at the Cobalt-Frontenac Property:

1. The MMI orientation survey has successfully documented moderate to high-contrast MMI-M silver (ranging to 100 times background) and gold (ranging to 12 times background) soil geochemical responses.
2. The anomalous elements defined by MMI-M soil geochemistry are representative of a "typical mineralization" suite of elements associated with the Ore Chimney and Addington Mine Properties. As such, these results are interpreted to be indicative of the historic silver and gold mineralization found adjacent to the Tudor-Flinton Unconformity.
3. The successful recognition of elements associated with the Ore Chimney and Addington Mine mineralization indicates that MMI-M geochemistry can be utilized for additional soil geochemical exploration on the property.
4. The use of MMI-M soil geochemistry can target high quality gold anomalies for optimized follow-up prospecting and diamond drilling.
5. The sampling protocols used on the Property were based on the strict adherence to the consistent depth sampling as per surveys previously completed by the author within the region.
6. The podzolic soil profile found on the property represents a suitable sampling medium for MMI-M surveys in this area.

A review of the MMI-M soils survey, historical work reports filed with the Ministry of Northern Development and Mines, investigative studies by various Ontario Geological Survey personnel and by university researchers, indicates that quartz-bearing silver and gold mineralization similar to the Ore Chimney and Addington has the potential to occur along the Tudor-Flinton Unconformity which crosses the Cobalt-Frontenac Property for in excess of two and a half kilometres.

It is recommended that continued exploration on the Property to the east of L23 should utilize prospecting and MMI-M soil geochemical surveys. MMI-M surveys should be capable of targeting the Ore Chimney and Addington silver and gold deposit type assemblage in these soils.

Based on the history of the area, and current MMI-M program results, the author believes that continued exploration is justified.

14. RECOMMENDATIONS

It is recommended that a \$100,000 next phase exploration program be undertaken. The objective of a next phase field program is to use MMI soil geochemistry and prospecting to locate and confirm potentially economic silver and gold mineralization along, and adjacent to, the Tudor-Flinton Unconformity east of the recently completed MMI soil survey grid. Positive results from this next phase would generate high priority drill targets that could potentially host mineralization similar to the Ore Chimney and Addington silver and gold deposits.

Cost Summary for Proposed 2019 Exploration Program:

Extend the MMI soil geochemistry survey to cover the eastern half of the property:	\$50,000
Prospect the anomalous areas of the 2018 MMI soil geochemistry grid	\$10,000
Prospect the eastern portion of the property	\$15,000
Trench and rock sample all significant areas of mineralization	<u>\$25,000</u>
Approximate recommended budget:	\$100,000

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16. CERTIFICATE OF QUALIFIED PERSON

CERTIFICATE of AUTHOR

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I, Garry K. Smith, P.Geo do hereby certify that:

1. I am the President of: Devon Geological Service Ltd.
2. I graduated with a degree in hon. B.Sc. in Earth Sciences from the University of Waterloo in 1977.
3. I am a member of the Association of Professional Geoscientists of Ontario (APGO). Devon Geological Services Ltd. is registered with the APGO to provide Geoscience Services.
4. I have worked continuously as a professional geologist for over 40 years since graduation from university in 1977. My relevant experience for the purpose of the Technical Report includes:

Since 2016 - Consulting Geologist managing property exploration using MMI-M soil geochemistry, and drilling and resource definition drilling, on gold-silver properties in the immediate area.

Since 1990 to present - Consulting Geologist managing exploration in Ontario, Quebec, B.C., Nevada, Colorado, New Mexico, Wyoming, and Australia. Specialties include project evaluations and acquisitions, geological modeling, drilling programs, and MMI soil geochemistry.

5. I have read the definition of “qualified person” set out in National Instrument 43-101 (“NI 43-101”) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a “qualified person” for the purposes of NI 43-101.
6. I am responsible for the preparation of all sections of the technical report titled MMI-M Soil Geochemistry: Cobalt-Frontenac Property, Barrie Township, Southeastern Ontario, Prepared for: Cobalt-Frontenac Mines Inc., Effective Date: Apr. 30, 2019 (the “Technical Report”) relating to the Cobalt-Frontenac Property.
7. I have not had prior involvement with the property that is the subject of the Technical Report.
8. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.

9. I am independent of the issuer applying all of the tests in National Instrument 43-101.

10. I consent to the filing of the Technical Report for work assessment purposes, including electronic publication accessible by the public, of the Technical Report.

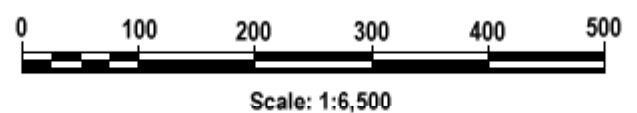
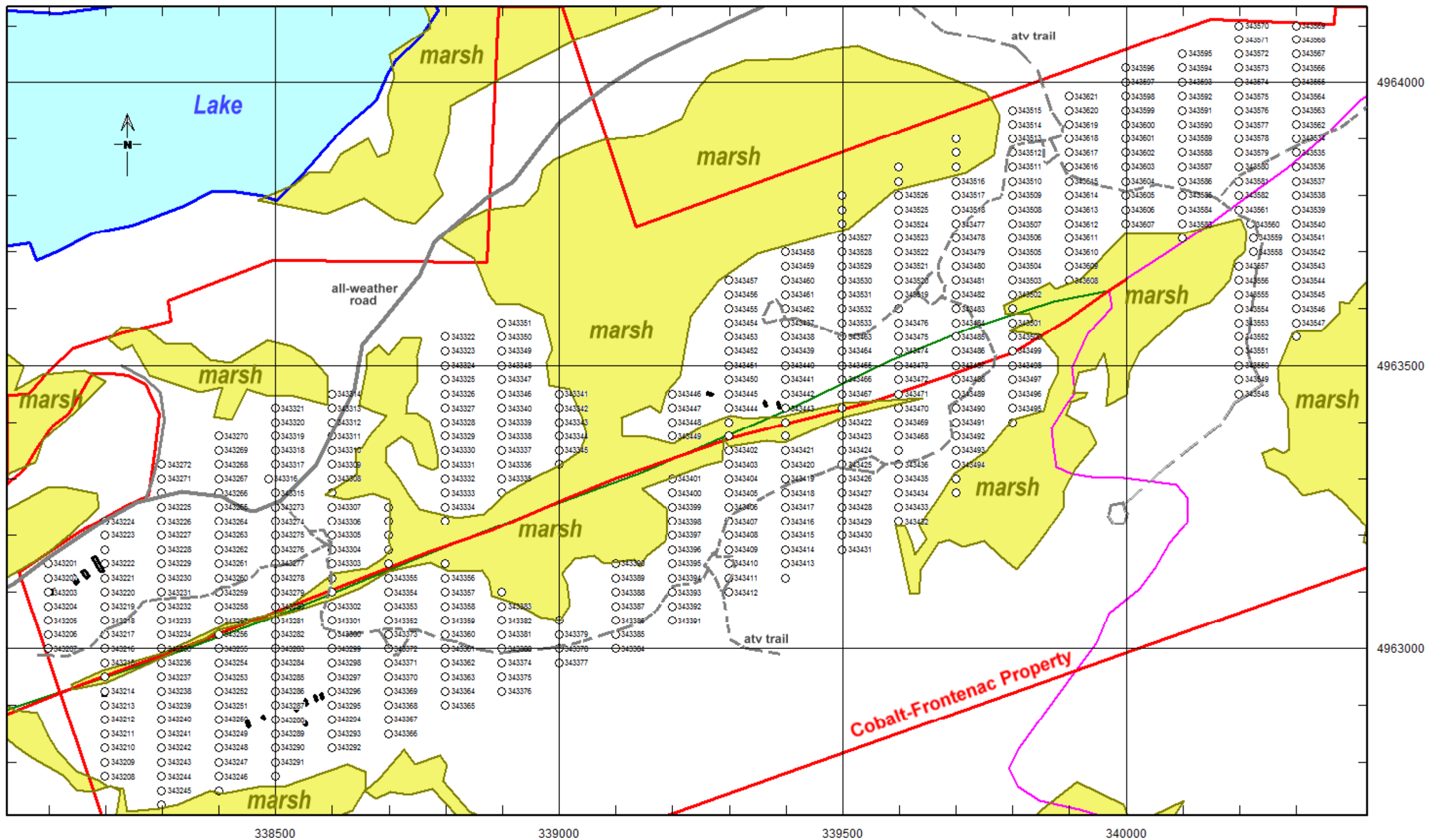
Dated this 30th Day of April, 2019.



Garry K Smith, P.Geo

Appendix 1

MMI-M Sample Location Map And Field Notes



Cobalt-Frontenac Property
MMI Sample Locations

Field Note Codes

Sample NS: no sample taken, a result of no suitable soil material at that site.

Quality: each sample site was rated by how well the soil profile was developed.

Good (G) represents a profile that is expected to measure optimal MMI responses.

Poor (P) indicates that the soil profile was not well developed, and MMI responses may not be optimal.

Colour: this refers to the general colour of the soil material collected.

B brown

ltB light brown

YB yellowish brown

GB greyish brown

RB reddish brown

YRB yellowish-reddish brown

Soil Type: standard soil naming convention.

Psl podzolic sandy loam

Psc podzolic sandy clay

Water: the subjective moisture content of the soil material collected

M moist, normal soil

W wet, water can be seen if the material is squeezed

Note: The depth of samples taken for this survey, if they were conventional soil samples, would average 30 centimeters below surface.

However, MMI sampling protocols do not use any standard depth from surface. Rather, the protocol requires that the sampler observes the location of a key marker in the soil profile that forms at the bottom of the surface penetration of the atmosphere. In podzolic soils, this key marker is usually a 1-3 centimeter thick layer of darker material. The MMI sample is taken from between 10-20 centimeters below the key marker.

Line	UTME	UTMN	Sample	Quality	Water	Colour	Soil	Notes
1	338100	4963150	343201	G	M	B	Psl	
	338100	4963125	343202	G	M	RB	Psl	
	338100	4963100	343203	G	M	RB	Psl	
	338100	4963075	343204	G	M	B	Psl	
	338100	4963050	343205	G	M	B	Psl	
	338100	4963025	343206	G	M	B	Psl	
	338100	4963000	343207	G	M	B	Psl	

2	338200	4963225	343224	G	M	B	Psl	
	338200	4963200	343223	G	M	B	Psl	
	338200	4963175	NS					
	338200	4963150	343222	G	M	B	Psl	5m E of long NS trench
	338200	4963125	343221	G	M	B	Psl	
	338200	4963100	343220	G	M	B	Psl	
	338200	4963075	343219	G	M	B	Psl	
	338200	4963050	343218	G	M	B	Psl	
	338200	4963025	343217	G	M	B	Psl	
	338200	4963000	343216	G	M	B	Psl	
	338200	4962975	343215	G	M	B	Psl	
	338200	4962950	NS					creek/marsh
	338200	4962925	343214	G	M	B	Psl	
	338200	4962900	343213	G	M	B	Psl	
	338200	4962875	343212	G	M	B	Psl	
	338200	4962850	343211	G	M	B	Psl	
	338200	4962825	343210	G	M	B	Psl	
	338200	4962800	343209	G	M	B	Psl	
	338200	4962775	343208	G	M	B	Psl	

3	338300	4963325	343272	G	M	B	Psl	
	338300	4963300	343271	G	M	B	Psl	
	338300	4963275	NS					
	338300	4963250	343225	G	MW	B	Psl	
	338300	4963225	343226	G	M	B	Psl	
	338300	4963200	343227	G	M	B	Psl	
	338300	4963175	343228	G	M	B	Psl	
	338300	4963150	343229	G	M	YB	Psl	
	338300	4963125	343230	G	M	B	Psl	
	338300	4963100	343231	G	M	B	Psl	
	338300	4963075	343232	G	M	B	Psl	
	338300	4963050	343233	G	M	B	Psl	
	338300	4963025	343234	G	M	B	Psl	
	338300	4963000	343235	G	M	B	Psl	
	338300	4962975	343236	G	M	B	Psl	dry creek
	338300	4962950	343237	G	M	YB	Psl	
	338300	4962925	343238	G	M	B	Psl	
	338300	4962900	343239	G	M	B	Psl	
	338300	4962875	343240	G	M	B	Psl	
	338300	4962850	343241	G	M	B	Psl	
	338300	4962825	343242	G	M	B	Psl	
	338300	4962800	343243	G	M	YB	Psl	
	338300	4962775	343244	G	M	YB	Psl	
	338300	4962750	343245	G	M	B	Psl	
	338300	4962725	NS					

4	338400	4963375	343270	G	M	B	Psl	
	338400	4963350	343269	G	M	B	Psc	
	338400	4963325	343268	G	M	B	Psl	
	338400	4963300	343267	G	M	B	Psl	
	338400	4963275	343266	G	M	B	Psl	
	338400	4963250	343265	G	M	B	Psl	
	338400	4963225	343264	G	M	B	Psl	
	338400	4963200	343263	G	M	B	Psl	
	338400	4963175	343262	G	M	B	Psl	
	338400	4963150	343261	G	M	B	Psl	
	338400	4963125	343260	G	M	B	Psl	
	338400	4963100	343259	G	M	B	Psl	

Line	UTME	UTMN	Sample	Quality	Water	Colour	Soil	Notes
4	338400	4963075	343258	G	M	B	Psl	
	338400	4963050	343257	G	M	B	Psl	
	338400	4963025	343256	G	M	B	Psl	creek
	338400	4963000	343255	G	M	B	Psl	
	338400	4962975	343254	G	M	B	Psl	
	338400	4962950	343253	G	M	B	Psl	
	338400	4962925	343252	G	M	B	Psl	
	338400	4962900	343251	G	M	B	Psl	
	338400	4962875	343250	G	M	B	Psl	
	338400	4962850	343249	G	M	B	Psl	
	338400	4962825	343248	G	M	B	Psl	
	338400	4962800	343247	G	M	B	Psl	
	338400	4962775	343246	G	M	B	Psl	
	338400	4962750	NS					

5	338500	4963425	343321	G	M	ltB	Psl	
	338500	4963400	343320	G	M	B	Psl	
	338500	4963375	343319	G	M	RB	Psl	
	338500	4963350	343318	G	M	B	Psl	
	338500	4963325	343317	G	M	B	Psl	
	338488	4963300	343316	G	M	B	Psl	
	338500	4963275	343315	G	M	B	Psl	
	338500	4963250	343273	G	M	B	Psl	
	338500	4963225	343274	G	M	B	Psl	
	338500	4963200	343275	G	M	B	Psl	
	338500	4963175	343276	G	M	B	Psl	
	338500	4963150	343277	G	M	B	Psl	
	338500	4963125	343278	G	M	B	Psl	
	338500	4963100	343279	G	M	B	Psl	
	338500	4963075	343280	G	M	B	Psl	
	338500	4963050	343281	G	M	B	Psl	creek
	338500	4963025	343282	G	M	B	Psl	
	338500	4963000	343283	G	M	B	Psl	
	338500	4962975	343284	G	M	B	Psl	
	338500	4962950	343285	G	M	B	Psl	
	338500	4962925	343286	G	M	B	Psl	
	338500	4962900	343287	G	M	B	Psl	
	338500	4962875	343288	G	M	B	Psl	
	338500	4962850	343289	G	M	B	Psl	
	338500	4962825	343290	G	W	GB	Psc	silty clay
	338500	4962800	343291	G	M	B	Psl	
	338500	4962775	NS					

6	338600	4963450	343314	G	M	B	Psl	
	338600	4963425	343313	G	M	B	Psl	
	338600	4963400	343312	G	M	B	Psl	
	338600	4963375	343311	G	M	B	Psl	
	338600	4963350	343310	G	M	B	Psl	
	338600	4963325	343309	G	M	B	Psl	
	338600	4963300	343308	G	M	B	Psl	
	338600	4963275	NS					marsh
	338600	4963250	343307	G	M	B	Psl	
	338600	4963225	343306	G	M	B	Psl	
	338600	4963200	343305	G	M	B	Psl	
	338600	4963175	343304	G	M	B	Psl	
	338600	4963150	343303	G	M	B	Psl	
	338600	4963125	NS					marsh
	338600	4963100	NS					creek marsh
	338600	4963075	343302	G	M	B	Psl	
	338600	4963050	343301	G	M	B	Psl	
	338600	4963025	343300	G	M	B	Psl	
	338600	4963000	343299	G	M	B	Psl	
	338600	4962975	343298	G	M	B	Psl	
	338600	4962950	343297	G	M	B	Psl	
	338600	4962925	343296	G	M	ltB	Psl	
	338600	4962900	343295	G	M	ltB	Psl	

Line	UTME	UTMN	Sample	Quality	Water	Colour	Soil	Notes	
6	338600	4962875	343294	G	M	ltB	Psl		
	338600	4962850	343293	G	M	B	Psl		
	338600	4962825	343292	G	M	B	Psl		
7	338700	4963250	NS					marsh	
	338700	4963225	NS					marsh	
	338700	4963200	NS					marsh	
	338700	4963175	NS					marsh	
	338700	4963150	NS					creek marsh	
	338700	4963125	343355	G	M	RB	Psl		
	338700	4963100	343354	G	M	RB	Psl		
	338700	4963075	343353	G	M	RB	Psl		
	338700	4963050	343352	G	M	RB	Psl		
	338700	4963025	343373	G	M	B	Psl		
	338700	4963000	343372	G	M	B	Psl		
	338700	4962975	343371	G	M	B	Psl		
	338700	4962950	343370	G	M	B	Psl		
	338700	4962925	343369	G	M	B	Psl		
	338700	4962900	343368	G	M	B	Psl		
	338700	4962875	343367	G	M	B	Psl		
	338700	4962850	343366	G	M	RB	Psl		
	8	338800	4963550	343322	G	M	B	Psl	
		338800	4963525	343323	G	M	B	Psl	
		338800	4963500	343324	G	M	B	Psl	
338800		4963475	343325	G	M	B	Psl		
338800		4963450	343326	G	M	GB	Psc	with clay	
338800		4963425	343327	G	M	B	Psl		
338800		4963400	343328	G	M	B	Psl		
338800		4963375	343329	G	M	B	Psl		
338800		4963350	343330	G	M	B	Psl		
338800		4963325	343331	G	M	B	Psl		
338800		4963300	343332	G	M	B	Psl		
338800		4963275	343333	G	M	B	Psl		
338800		4963250	343334	G	M	B	Psl	30cm QV at 338835E 4963236N	
338800		4963225	NS					marsh	
			marsh	NS				marsh	
338800		4963150	NS					marsh	
338800		4963125	343356	G	W	B	Psl		
338800		4963100	343357	G	M	RB	Psl		
338800		4963075	343358	G	M	B	Psl		
338800		4963050	343359	G	M	B	Psl		
338800		4963025	343360	G	M	B	Psl		
338800		4963000	343361	G	M	B	Psl		
338800		4962975	343362	G	M	B	Psl		
338800		4962950	343363	G	W	B	Psl		
338800		4962925	343364	G	M	B	Psl		
338800		4962900	343365	G	M	B	Psl		
9		338900	4963575	343351	G	M	B	Psl	
	338900	4963550	343350	G	M	B	Psl		
	338900	4963525	343349	G	M	B	Psl		
	338900	4963500	343348	G	M	B	Psl		
	338900	4963475	343347	G	M	RB	Psl		
	338900	4963450	343346	G	M	YRB	Psl		
	338900	4963425	343340	G	M	B	Psl		
	338900	4963400	343339	G	M	B	Psl		
	338900	4963375	343338	G	M	B	Psl		
	338900	4963350	343337	G	M	B	Psl		
	338900	4963325	343336	G	M	RB	Psl		
	338900	4963300	343335	G	M	B	Psl		
	338900	4963275	NS					marsh	
			marsh	NS				marsh	
	338900	4963100	NS					marsh	
	338900	4963075	343383	G	M	B	Psl		
338900	4963050	343382	G	M	B	Psl			

Line	UTME	UTMN	Sample	Quality	Water	Colour	Soil	Notes
9	338900	4963025	343381	G	W	B	Psl	
	338900	4963000	343380	G	M	B	Psl	
	338900	4962975	343374	G	M	B	Psl	
	338900	4962950	343375	G	M	B	Psl	
	338900	4962925	343376	G	M	RB	Psl	
10	339000	4963450	343341	G	M	B	Psl	
	339000	4963425	343342	G	M	B	Psl	
	339000	4963400	343343	G	M	B	Psl	
	339000	4963375	343344	G	M	B	Psl	
	339000	4963350	343345	G	M	B	Psl	
	339000	4963325	NS	G	M	B	Psl	marsh
		marsh	NS					marsh
	339000	4963050	NS					marsh
	339000	4963025	343379	G	M	RB	Psl	
	339000	4963000	343378	G	M	B	Psl	
	339000	4962975	343377	G	M	B	Psl	
	11	339100	4963150	343390	G	M	B	Psl
339100		4963125	343389	G	M	B	Psl	
339100		4963100	343388	G	M	B	Psl	
339100		4963075	343387	G	M	B	Psl	
339100		4963050	343386	G	M	B	Psl	
339100		4963025	343385	G	M	B	Psl	
339100		4963000	343384	G	M	B	Psl	
12		339200	4963450	343446	G	M	B	Psl
	339200	4963425	343447	G	M	RB	Psl	
	339200	4963400	343448	G	M	B	Psl	
	339200	4963375	343449	G	M	B	Psl	
		marsh						marsh
	339200	4963300	343401	G	M	B	Psl	
	339200	4963275	343400	G	M	B	Psl	
	339200	4963250	343399	G	M	B	Psl	
	339200	4963225	343398	G	M	B	Psl	minor QV
	339200	4963200	343397	G	M	B	Psl	
	339200	4963175	343396	G	M	RB	Psl	
	339200	4963150	343395	G	M	B	Psl	
	339200	4963125	343394	G	M	RB	Psl	minor QV
	339200	4963100	343393	G	M	B	Psl	
	339200	4963075	343392	G	M	B	Psl	
	339200	4963050	343391	G	M	B	Psl	
13	339300	4963650	343457	G	M	B	Psl	
	339300	4963625	343456	G	M	B	Psl	
	339300	4963600	343455	G	M	B	Psl	
	339300	4963575	343454	G	M	B	Psl	
	339300	4963550	343453	G	M	B	Psl	
	339300	4963525	343452	G	M	B	Psl	
	339300	4963500	343451	G	M	B	Psl	
	339300	4963475	343450	G	M	B	Psl	
	339300	4963450	343445	G	M	B	Psl	Trench @120, 339271E 4963450N
	339300	4963425	343444	G	M	B	Psl	
	339300	4963400	NS					marsh
		marsh	NS					marsh
	339300	4963350	343402	G	M	RB	Psl	
	339300	4963325	343403	G	M	RB	Psl	QV in Congl 339285E 4963320N
	339300	4963300	343404	G	M	B	Psl	
	339300	4963275	343405	G	M	RB	Psl	
	339300	4963250	343406	G	M	RB	Psl	
	339300	4963225	343407	G	M	B	Psl	
	339300	4963200	343408	G	M	B	Psl	
	339300	4963175	343409	G	M	B	Psl	
	339300	4963150	343410	G	M	RB	Psl	
339300	4963125	343411	G	M	B	Psl		
339300	4963100	343412	G	M	B	Psl		

Line	UTME	UTMN	Sample	Quality	Water	Colour	Soil	Notes
14	339400	4963700	343458	G	M	B	Psl	
	339400	4963675	343459	G	M	B	Psl	
	339400	4963650	343460	G	M	B	Psl	
	339400	4963625	343461	G	M	B	Psl	
	339400	4963600	343462	G	M	B	Psl	
	339400	4963575	343437	G	M	RB	Psl	
	339400	4963550	343438	G	M	B	Psl	
	339400	4963525	343439	G	M	B	Psl	
	339400	4963500	343440	G	M	B	Psl	
	339400	4963475	343441	G	M	B	Psl	
	339400	4963450	343442	G	M	B	Psl	Pit QTZ-Tourmaline 339407E 4963443N
	339400	4963425	343443	G	M	B	Psl	
	339400	4963400	NS					marsh
	339400	4963375	NS					marsh
	339400	4963350	343421	G	M	B	Psl	
	339400	4963325	343420	G	M	B	Psl	
	339400	4963300	343419	G	M	B	Psl	
	339400	4963275	343418	G	M	B	Psl	
	339400	4963250	343417	G	M	B	Psl	
	339400	4963225	343416	G	M	B	Psl	
	339400	4963200	343415	G	M	B	Psl	minor rusty oxides
	339400	4963175	343414	G	M	B	Psl	
	339400	4963150	343413	G	M	B	Psl	
	339400	4963125	NS					marsh

15	339500	4963800	NS					marsh
	339500	4963775	NS					marsh
	339500	4963750	NS					marsh
	339500	4963725	343527	G	M	RB	Psl	
	339500	4963700	343528	G	M	RB	Psl	
	339500	4963675	343529	G	M	B	Psl	
	339500	4963650	343530	G	M	B	Psl	
	339500	4963625	343531	G	M	B	Psl	
	339500	4963600	343532	G	M	B	Psl	
	339500	4963575	343533	G	M	B	Psl	
	339500	4963550	343463	G	M	B	Psl	
	339500	4963525	343464	G	M	B	Psl	
	339500	4963500	343465	G	M	B	Psl	
	339500	4963475	343466	G	M	B	Psl	
	339500	4963450	343467	G	M	B	Psl	
	339500	4963425	NS					marsh
	339500	4963400	343422	G	M	RB	Psl	
	339500	4963375	343423	G	M	B	Psl	
	339500	4963350	343424	G	M	RB	Psl	
	339500	4963325	343425	G	M	B	Psl	Pit
	339500	4963300	343426	G	M	B	Psl	
	339500	4963275	343427	G	M	B	Psl	
	339500	4963250	343428	G	M	B	Psl	
	339500	4963225	343429	G	M	B	Psl	
	339500	4963200	343430	G	M	B	Psl	
	339500	4963175	343431	G	W	B	Psc	with clay

16	339600	4963850	NS					cedar marsh
	339600	4963825	NS					cedar marsh
	339600	4963800	343526	G	M	B	Psl	
	339600	4963775	343525	G	M	B	Psl	
	339600	4963750	343524	G	M	B	Psl	
	339600	4963725	343523	G	M	B	Psl	
	339600	4963700	343522	G	M	B	Psl	
	339600	4963675	343521	G	M	B	Psl	
	339600	4963650	343520	G	M	B	Psl	
	339600	4963625	343519	G	M	B	Psl	
	339600	4963600	NS					old road bed
	339600	4963575	343476	G	M	B	Psl	
	339600	4963550	343475	G	M	B	Psl	
	339600	4963525	343474	G	M	B	Psl	

Line	UTME	UTMN	Sample	Quality	Water	Colour	Soil	Notes
16	339600	4963500	343473	G	M	B	Psl	
	339600	4963475	343472	G	W	G	Psc	with clay, ravine
	339600	4963450	343471	G	W	G	Psc	with clay, ravine
	339600	4963425	343470	G	M	GB	Psl	
	339600	4963400	343469	G	M	B	Psl	
	339600	4963375	343468	G	M	B	Psl	
	339600	4963350	NS					old road bed
	339600	4963325	343436	G	M	B	Psl	
	339600	4963300	343435	G	M	B	Psl	
	339600	4963275	343434	G	M	RB	Psl	
	339600	4963250	343433	G	M	B	Psl	
	339600	4963225	343432	G	M	RB	Psl	

17	339700	4963900	NS					cedar bog
	339700	4963875	NS					cedar bog
	339700	4963850	NS					cedar bog
	339700	4963825	343516	G	M	B	Psl	
	339700	4963800	343517	G	M	RB	Psl	
	339700	4963775	343518	G	M	B	Psl	
	339700	4963750	343477	G	M	B	Psl	
	339700	4963725	343478	G	M	B	Psl	
	339700	4963700	343479	G	M	B	Psl	
	339700	4963675	343480	G	M	B	Psl	
	339700	4963650	343481	G	M	B	Psl	
	339700	4963625	343482	G	M	B	Psl	
	339700	4963600	343483	G	M	B	Psl	
	339700	4963575	343484	G	M	B	Psl	
	339700	4963550	343485	G	M	B	Psl	
	339700	4963525	343486	G	M	B	Psl	
	339700	4963500	343487	G	M	B	Psl	
	339700	4963475	343488	G	M	GB	Psl	
	339700	4963450	343489	G	M	B	Psl	qtz stringers
	339700	4963425	343490	G	M	B	Psl	
	339700	4963400	343491	G	M	GB	Psl	qtz blocks
	339700	4963375	343492	G	M	B	Psl	
	339700	4963350	343493	G	W	B	Psl	
	339700	4963325	343494	G	M	B	Psl	
	339700	4963300	NS					lake
	339700	4963275	NS					lake

18	339800	4963950	343515	G	M	B	Psl	
	339800	4963925	343514	G	M	B	Psl	
	339800	4963900	343513	G	M	B	Psl	
	339800	4963875	343512	G	M	B	Psl	
	339800	4963850	343511	G	M	B	Psl	
	339800	4963825	343510	G	M	B	Psl	
	339800	4963800	343509	G	M	B	Psl	
	339800	4963775	343508	G	M	B	Psl	
	339800	4963750	343507	G	M	B	Psl	
	339800	4963725	343506	G	M	B	Psl	
	339800	4963700	343505	G	M	B	Psl	
	339800	4963675	343504	G	M	B	Psl	
	339800	4963650	343503	G	M	B	Psl	
	339800	4963625	343502	G	M	B	Psl	
	339800	4963600	NS					lake
	339800	4963575	343501	G	M	B	Psl	
	339800	4963550	343500	G	M	B	Psl	
	339800	4963525	343499	G	M	B	Psl	
	339800	4963500	343498	G	M	B	Psl	qtz
	339800	4963475	343497	G	M	B	Psl	
	339800	4963450	343496	G	M	B	Psl	
	339800	4963425	343495	G	M	B	Psl	qtz blocks, ark-wke
	339800	4963400	NS					lake

19	339900	4963975	343621	G	M	B	Psl	
	339900	4963950	343620	G	M	B	Psl	

Line	UTME	UTMN	Sample	Quality	Water	Colour	Soil	Notes
19	339900	4963925	343619	G	M	B	Psl	gray-white qtz blocks
	339900	4963900	343618	G	M	RB	Psl	
	339900	4963875	343617	G	M	RB	Psl	
	339900	4963850	343616	G	M	B	Psl	
	339900	4963825	343615	G	M	B	Psl	
	339900	4963800	343614	G	M	B	Psl	
	339900	4963775	343613	G	M	B	Psl	
	339900	4963750	343612	G	M	B	Psl	
	339900	4963725	343611	G	M	B	Psl	
	339900	4963700	343610	G	M	B	Psl	
	339900	4963675	343609	G	M	B	Psl	
	339900	4963650	343608	G	M	B	Psl	

20	340000	4964025	343596	G	M	B	Psl	
	340000	4964000	343597	G	M	B	Psl	
	340000	4963975	343598	G	M	B	Psl	
	340000	4963950	343599	G	M	B	Psl	
	340000	4963925	343600	G	M	B	Psl	
	340000	4963900	343601	G	M	B	Psl	
	340000	4963875	343602	G	M	B	Psl	
	340000	4963850	343603	G	M	YRB	Psl	
	340000	4963825	343604	G	M	B	Psl	
	340000	4963800	343605	G	M	B	Psl	
	340000	4963775	343606	P	M	GB	Psl	
	340000	4963750	343607	G	M	GB	Psl	

21	340100	4964050	343595	G	M	B	Psl	
	340100	4964025	343594	G	M	B	Psl	
	340100	4964000	343593	G	M	B	Psl	
	340100	4963975	343592	G	M	B	Psl	
	340100	4963950	343591	G	M	B	Psl	
	340100	4963925	343590	G	M	B	Psl	
	340100	4963900	343589	G	M	B	Psl	
	340100	4963875	343588	G	M	B	Psl	
	340100	4963850	343587	G	M	B	Psl	
	340100	4963825	343586	G	M	B	Psl	
	340100	4963800	343585	G	M	B	Psl	
	340100	4963775	343584	G	M	RB	Psl	
	340100	4963750	343583	G	M	RB	Psl	
	340100	4963725	NS					

22	340200	4964100	343570	G	M	RB	Psl	
	340200	4964075	343571	G	M	B	Psl	
	340200	4964050	343572	G	M	B	Psl	
	340200	4964025	343573	G	M	B	Psl	
	340200	4964000	343574	G	M	B	Psl	
	340200	4963975	343575	P	M	B	Psl	
	340200	4963950	343576	G	M	B	Psl	
	340200	4963925	343577	G	M	RB	Psl	
	340200	4963900	343578	G	M	RB	Psl	
	340200	4963875	343579	G	M	B	Psl	
	340200	4963850	343580	G	M	RB	Psl	
	340200	4963825	343581	G	M	B	Psl	
	340200	4963800	343582	G	M	B	Psl	
	340200	4963775	343561	G	M	B	Psl	
	340220	4963750	343560	G	M	B	Psl	
	340225	4963725	343559	G	M	B	Psl	
	340225	4963700	343558	G	M	B	Psl	
	340200	4963675	343557	G	M	B	Psl	
	340200	4963650	343556	G	M	B	Psl	
	340200	4963625	343555	G	M	B	Psl	
	340200	4963600	343554	G	M	RB	Psl	
	340200	4963575	343553	G	M	B	Psl	
	340200	4963550	343552	G	M	B	Psl	

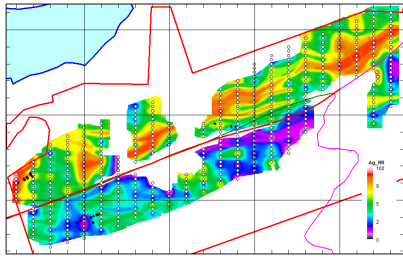
Line	UTME	UTMN	Sample	Quality	Water	Colour	Soil	Notes
22	340200	4963525	343551	G	M	B	Psl	
	340200	4963500	343550	G	M	B	Psl	
	340200	4963475	343549	G	M	B	Psl	
	340200	4963450	343548	G	M	B	Psl	
23	340300	4964100	343569	G	M	B	Psl	
	340300	4964075	343568	G	M	B	Psl	
	340300	4964050	343567	G	M	B	Psl	
	340300	4964025	343566	G	M	B	Psl	
	340300	4964000	343565	G	M	B	Psl	
	340300	4963975	343564	G	M	RB	Psl	
	340300	4963950	343563	G	M	GB	Psl	
	340300	4963925	343562	G	M	B	Psl	
	340300	4963900	343534	P	M	RB	Psl	
	340300	4963875	343535	G	M	B	Psl	
	340300	4963850	343536	G	M	B	Psl	
	340300	4963825	343537	G	M	B	Psl	
	340300	4963800	343538	G	M	B	Psl	
	340300	4963775	343539	G	M	B	Psl	
	340300	4963750	343540	G	M	B	Psl	qtz blocks
	340300	4963725	343541	G	M	B	Psl	
	340300	4963700	343542	G	M	B	Psl	
	340300	4963675	343543	G	M	B	Psl	
	340300	4963650	343544	G	M	B	Psl	
	340300	4963625	343545	G	M	B	Psl	
	340300	4963600	343546	G	M	B	Psl	
	340300	4963575	343547	G	M	B	Psl	
	340300	4963550	NS	G	M	B	Psl	lake

Appendix 2

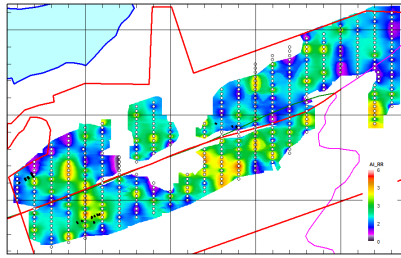
Ag+Au MMI-M Response Ratios Map

Appendix 3

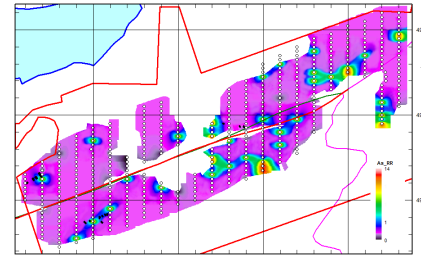
Matrix of Response Ratio Image Maps



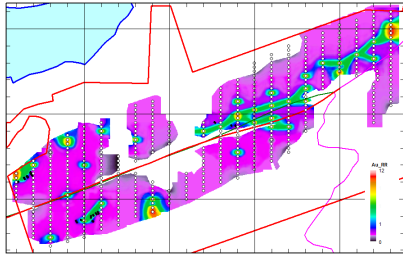
MMI Ag_RR



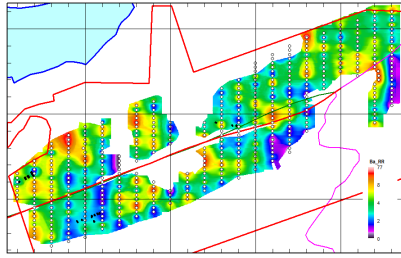
MMI Al_RR



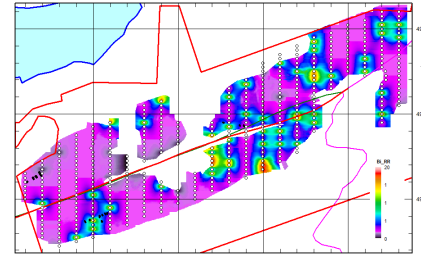
MMI As_RR



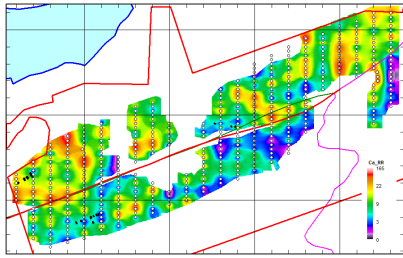
MMI Au_RR



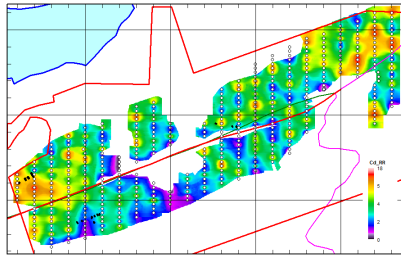
MMI Ba_RR



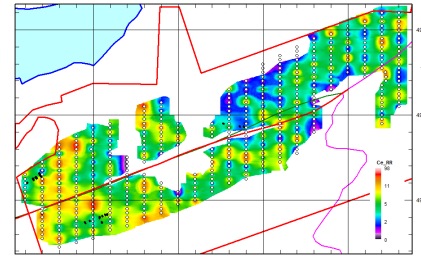
MMI Bi_RR



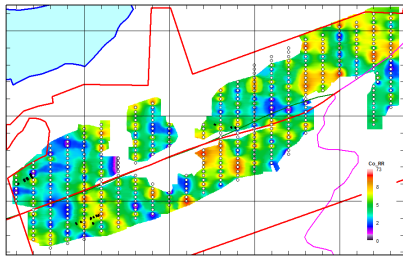
MMI Ca_RR



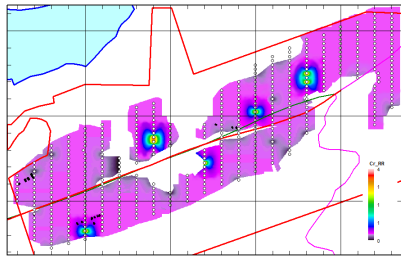
MMI Cd_RR



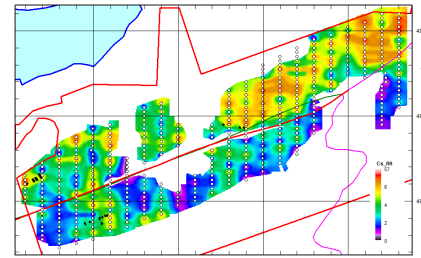
MMI Ce_RR



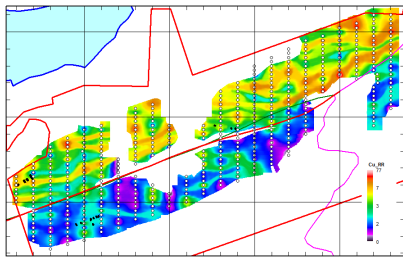
MMI Co_RR



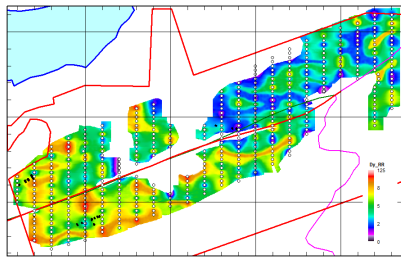
MMI Cr_RR



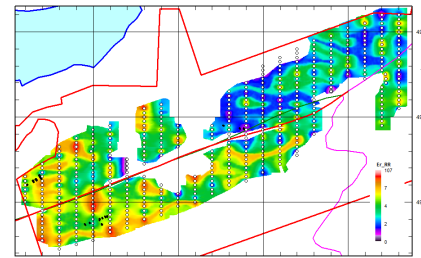
MMI Cs_RR



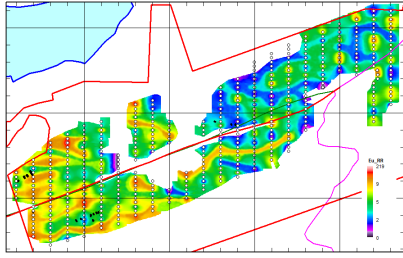
MMI Cu_RR



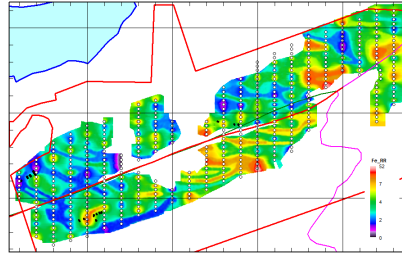
MMI Dy_RR



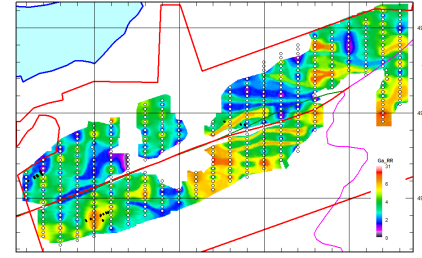
MMI Er_RR



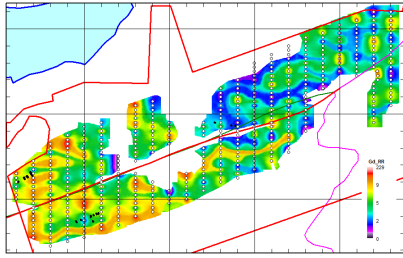
MMI Eu_RR



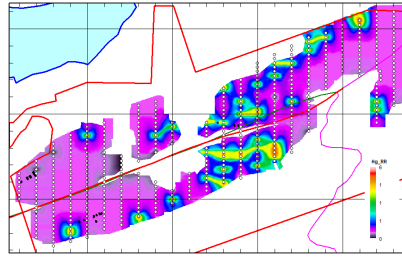
MMI Fe_RR



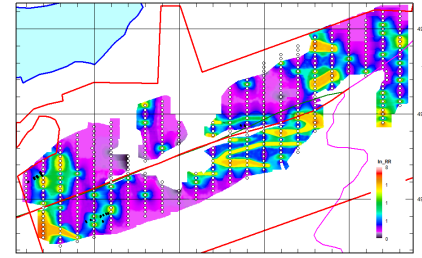
MMI Ga_RR



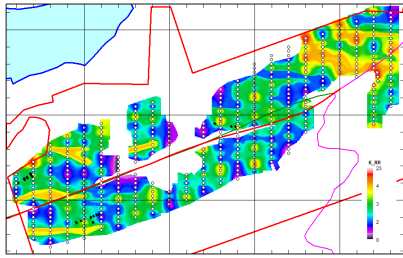
MMI Gd_RR



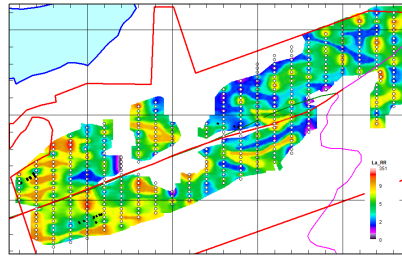
MMI Hg_RR



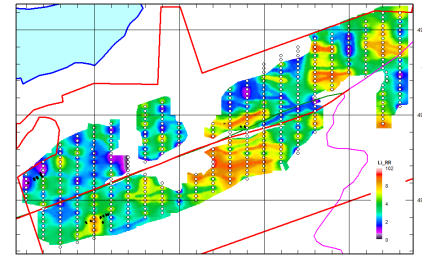
MMI In_RR



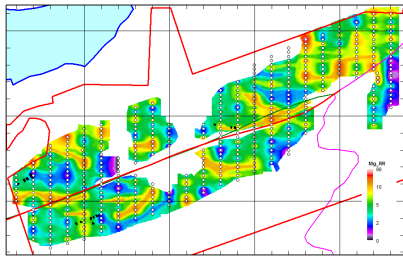
MMI K_RR



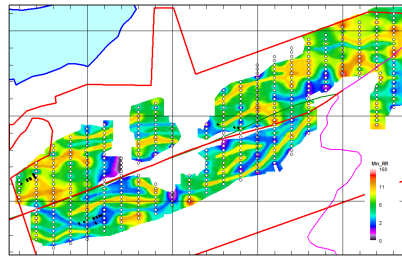
MMI La_RR



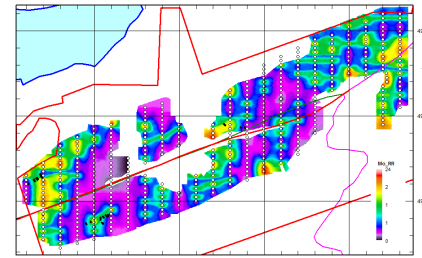
MMI Li_RR



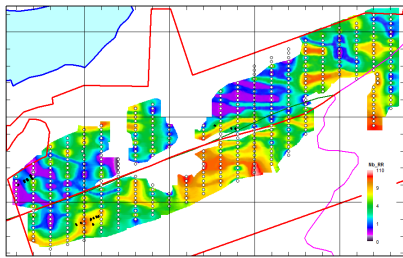
MMI Mg_RR



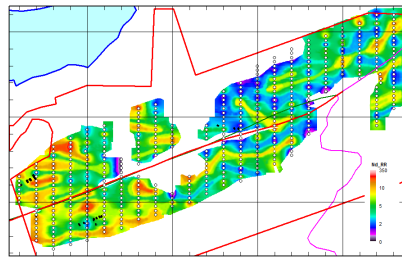
MMI Mn_RR



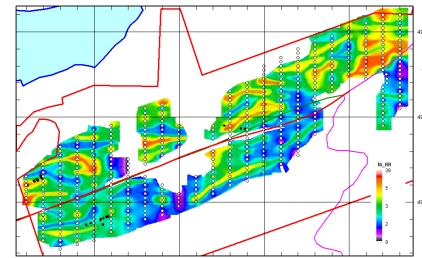
MMI Mo_RR



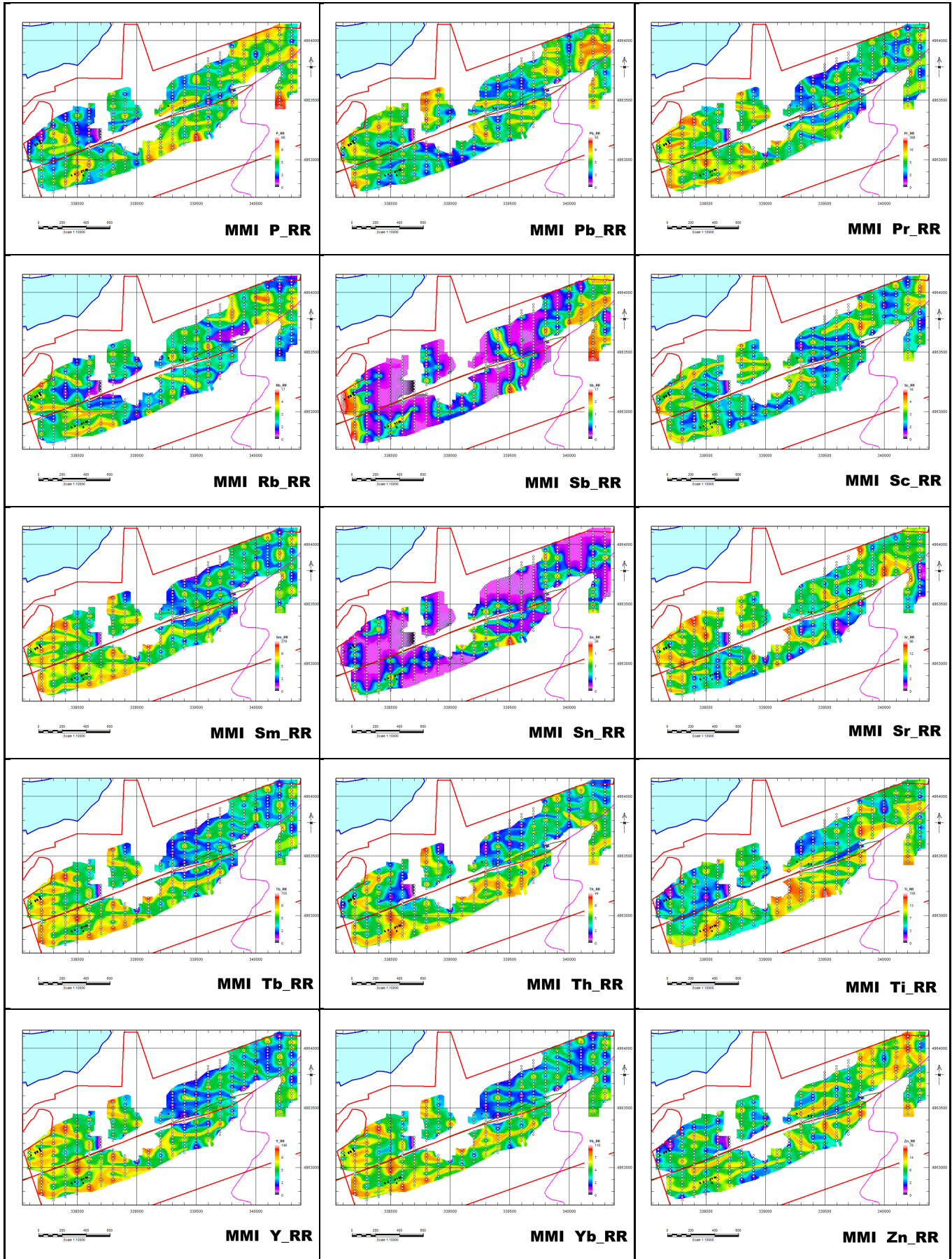
MMI Nb_RR

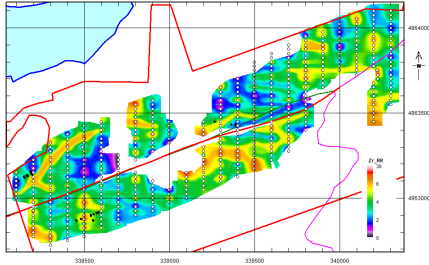


MMI Nd_RR

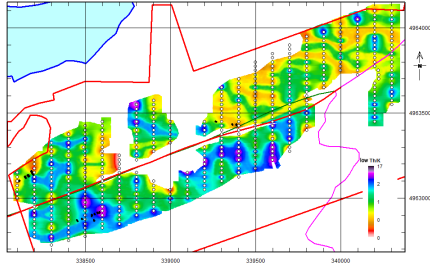


MMI Ni_RR





MMI Zr_RR



MMI low Th/K_RR

Appendix 4

SGS Labs MMI-M Assay Certificates



Certificate of Analysis
Work Order : VC184716
[Report File No.: 0000034670]

Date: March 26, 2019

To: Garry Smith
DEVON GEOLOGICAL SERVICES LTD
 3267 STONECREST ROAD RR#2
 WOODLAWN ON K0A 3M0

P.O. No.: TEST: 421 Samples (1-86)
Project No.: -
Samples: 86
Received: Dec 17, 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

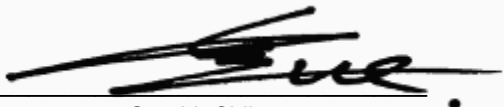
Storage: Pulp & Reject

REJECT STORAGE : DISPOSE AFTER 30 DAYS
 PULP STORAGE : DISPOSE AFTER 90 DAYS

Comments:

Upon Client's request, this Certificate/Report has been issued in more than one original. Only the first original is a legally binding document and may be used for any legal purpose, including payment.

Certified By :



Gerald Chik
 Operations Manager/Chief 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
343201	31.3	167	<10	0.1	1250	<0.5	53	62
343202	59.9	152	<10	0.2	710	<0.5	128	29
343203	17.0	195	<10	<0.1	340	<0.5	35	56
343204	23.1	146	<10	<0.1	950	<0.5	97	40
343205	23.0	134	<10	<0.1	1090	<0.5	204	29
343206	10.6	183	<10	<0.1	860	<0.5	104	52
343207	36.2	137	<10	<0.1	1160	<0.5	236	50
343208	4.4	191	<10	<0.1	1580	<0.5	101	34
343209	7.0	182	<10	<0.1	1300	<0.5	35	36
343210	6.7	254	<10	<0.1	1480	<0.5	11	73
343211	3.3	171	<10	<0.1	700	<0.5	9	26
343212	5.2	182	<10	<0.1	840	<0.5	76	32
343213	4.4	132	<10	<0.1	1710	<0.5	205	57
343214	1.6	274	<10	<0.1	1290	<0.5	12	19
343215	3.0	197	<10	<0.1	690	0.8	28	34
343216	7.6	210	<10	<0.1	510	<0.5	34	37
343217	13.2	192	<10	<0.1	950	<0.5	108	47
343218	6.1	105	<10	<0.1	1960	<0.5	286	46
343219	3.5	198	<10	<0.1	1100	<0.5	63	82
343220	4.6	246	<10	<0.1	1970	<0.5	45	45
343221	8.0	236	10	<0.1	880	<0.5	57	39
343222	23.7	138	<10	<0.1	340	<0.5	23	42
343223	70.7	90	<10	0.4	1250	<0.5	145	29
343224	14.8	102	<10	<0.1	1710	<0.5	283	42
343225	7.8	196	<10	<0.1	1020	<0.5	136	44
343226	3.2	219	<10	<0.1	1090	<0.5	23	12
343227	6.2	179	<10	<0.1	1160	<0.5	88	23
343228	3.3	186	<10	<0.1	1090	<0.5	73	57
343229	10.0	97	<10	<0.1	1240	<0.5	55	22
343230	8.0	227	<10	<0.1	430	<0.5	22	27
343231	6.1	205	<10	<0.1	1450	<0.5	101	59
343232	4.5	212	<10	<0.1	740	<0.5	37	36
343233	5.5	231	<10	<0.1	1960	<0.5	47	65
343234	4.9	126	<10	<0.1	760	<0.5	280	40
343235	6.9	73	<10	<0.1	1760	<0.5	386	26
343236	10.0	67	<10	<0.1	580	<0.5	348	64
343237	3.4	210	<10	<0.1	360	<0.5	14	20
343238	6.4	183	<10	<0.1	840	<0.5	31	24
343239	3.7	199	<10	<0.1	600	<0.5	62	42
343240	9.1	186	<10	<0.1	800	<0.5	70	43

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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
343241	4.7	166	<10	<0.1	740	<0.5	84	23
343242	2.8	213	<10	<0.1	780	<0.5	17	21
343243	4.8	216	<10	<0.1	930	<0.5	6	52
343244	8.3	154	<10	0.1	1770	<0.5	47	9
343245	5.1	224	<10	<0.1	550	<0.5	23	23
343246	1.9	301	10	<0.1	600	1.1	13	11
343247	8.2	229	<10	<0.1	100	<0.5	18	22
343248	2.6	208	<10	<0.1	400	<0.5	18	73
343249	2.5	200	<10	<0.1	420	<0.5	27	25
343250	2.2	212	<10	<0.1	270	<0.5	8	28
343251	4.6	210	<10	<0.1	380	<0.5	13	26
343252	4.1	108	<10	<0.1	1520	<0.5	372	19
343253	4.0	224	<10	<0.1	250	<0.5	10	43
343254	3.9	230	<10	<0.1	280	<0.5	35	36
343255	2.0	155	<10	<0.1	400	<0.5	179	40
343256	7.2	128	<10	0.4	3300	<0.5	260	25
343257	9.9	199	<10	<0.1	380	<0.5	109	37
343258	8.5	209	<10	<0.1	410	<0.5	69	40
343259	6.1	222	<10	<0.1	230	<0.5	47	26
343260	5.8	226	<10	<0.1	210	<0.5	19	27
343261	2.7	242	<10	<0.1	350	<0.5	14	38
343262	6.5	267	<10	<0.1	800	<0.5	35	41
343263	4.7	259	<10	<0.1	520	<0.5	75	30
343264	6.6	229	<10	<0.1	550	<0.5	13	19
343265	8.9	200	<10	<0.1	850	<0.5	89	91
343266	2.9	174	<10	<0.1	1430	<0.5	188	81
343267	10.2	195	<10	<0.1	1580	<0.5	89	38
343268	9.7	94	<10	0.2	2770	<0.5	230	12
343269	9.9	95	<10	0.1	3040	<0.5	226	6
343270	8.8	101	<10	<0.1	2110	<0.5	406	80
343271	8.5	75	<10	<0.1	4020	<0.5	341	24
343272	8.8	199	<10	<0.1	1330	<0.5	101	23
343273	13.2	112	<10	<0.1	2360	<0.5	287	73
343274	20.5	36	<10	<0.1	7580	<0.5	480	50
343275	36.2	128	<10	0.1	1140	<0.5	249	20
343276	16.3	253	<10	<0.1	350	<0.5	39	24
343277	13.8	149	<10	<0.1	450	<0.5	71	27
343278	18.6	207	<10	<0.1	590	<0.5	108	38
343279	6.5	263	<10	<0.1	890	<0.5	41	50
343280	8.3	234	<10	<0.1	210	<0.5	12	24

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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
343281	6.2	191	<10	<0.1	530	<0.5	123	27
343282	1.3	254	<10	<0.1	900	1.3	86	37
343283	4.2	274	<10	<0.1	550	<0.5	17	41
343284	6.8	235	<10	<0.1	510	<0.5	20	21
343285	6.0	160	<10	<0.1	510	<0.5	101	12
343286	4.7	344	<10	<0.1	450	<0.5	74	19
*Rep 343207	36.6	137	<10	<0.1	1070	<0.5	248	50
*Rep 343223	66.7	84	<10	0.4	1370	<0.5	144	34
*Rep 343242	2.8	204	<10	<0.1	680	<0.5	15	21
*Rep 343257	10.8	201	<10	<0.1	350	<0.5	107	33
*Rep 343271	8.5	75	<10	0.1	4060	<0.5	337	22
*Rep 343275	33.2	125	<10	0.2	1100	<0.5	258	22
*Std MMISRM24	20.9	32	<10	3.8	130	<0.5	60	6
*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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	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
343201	183	49	<100	8.7	380	46.0	23.9	11.8
343202	64	43	<100	22.3	230	13.6	7.7	3.3
343203	65	47	<100	23.8	540	23.5	17.1	4.4
343204	47	10	<100	7.0	150	8.8	4.8	1.8
343205	90	8	<100	5.9	110	22.0	13.2	5.2
343206	198	30	<100	9.8	360	26.7	15.0	7.6
343207	68	34	<100	7.0	330	13.8	7.7	3.6
343208	159	81	<100	2.9	80	82.2	48.4	16.5
343209	205	42	<100	3.8	100	41.0	21.1	7.8
343210	266	61	<100	5.4	180	26.5	15.2	6.4
343211	123	33	<100	3.7	50	27.2	16.3	5.4
343212	166	17	<100	5.4	70	45.6	25.5	8.4
343213	302	25	<100	4.6	130	45.0	28.6	9.2
343214	546	282	<100	13.5	150	35.0	17.0	10.6
343215	123	51	<100	3.2	120	23.4	14.2	5.2
343216	210	65	<100	10.9	180	33.4	15.1	9.0
343217	220	31	<100	4.8	470	30.6	13.8	8.8
343218	144	16	<100	3.8	170	39.9	22.4	10.1
343219	80	25	<100	4.9	90	19.6	11.9	3.5
343220	322	45	<100	3.0	390	71.4	32.0	15.1
343221	710	172	<100	9.7	930	54.0	22.9	15.7
343222	67	11	<100	18.9	140	23.9	13.0	4.2
343223	195	56	<100	3.6	570	84.3	47.1	27.3
343224	74	30	<100	9.3	250	16.4	8.9	4.9
343225	211	120	<100	24.1	260	21.8	12.2	5.3
343226	337	20	<100	9.0	160	31.4	15.7	9.7
343227	601	21	<100	7.3	270	111	57.5	23.3
343228	71	17	<100	4.4	70	14.3	8.2	2.7
343229	311	37	<100	5.0	190	36.4	17.9	12.0
343230	486	47	<100	8.2	430	79.9	40.5	19.1
343231	68	14	<100	4.4	140	10.1	4.7	2.4
343232	303	24	<100	7.2	100	28.6	15.4	7.8
343233	290	35	<100	6.2	290	33.3	18.7	6.6
343234	87	27	<100	2.9	70	9.0	5.9	1.8
343235	212	7	<100	3.3	170	120	81.5	31.0
343236	254	10	<100	4.1	90	19.8	11.9	4.7
343237	222	39	<100	5.5	80	42.3	23.6	8.5
343238	120	38	<100	3.4	240	17.4	8.8	4.7
343239	132	29	<100	4.1	80	17.6	8.1	3.6
343240	259	20	<100	6.0	130	43.3	21.9	8.9

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343241	48	9	<100	5.0	40	12.2	6.0	2.6
343242	74	48	<100	2.9	40	15.2	9.0	2.6
343243	150	96	<100	5.1	120	24.8	14.9	3.6
343244	529	51	<100	4.8	140	168	89.1	32.4
343245	219	97	<100	4.3	140	34.0	18.9	5.9
343246	88	114	<100	0.9	50	14.7	9.6	2.1
343247	168	18	<100	10.0	80	27.3	12.5	5.2
343248	235	8	<100	7.9	120	81.9	48.9	8.0
343249	58	56	<100	4.6	70	14.1	6.8	2.5
343250	81	46	<100	5.6	30	14.0	7.5	2.4
343251	137	19	<100	5.9	110	22.7	12.4	4.6
343252	210	19	<100	3.1	40	22.8	8.2	7.9
343253	208	17	<100	6.7	70	23.3	10.7	4.8
343254	177	15	<100	7.9	70	25.2	11.7	4.1
343255	86	24	<100	3.9	70	18.0	9.3	2.8
343256	296	32	<100	20.8	150	54.5	29.1	14.5
343257	121	22	<100	20.4	150	13.6	6.5	3.2
343258	183	47	<100	4.1	100	18.2	10.0	5.0
343259	122	45	<100	4.0	100	15.1	7.4	3.8
343260	28	8	<100	4.6	260	6.7	3.4	1.1
343261	88	40	<100	2.4	310	18.3	8.7	3.2
343262	122	23	<100	7.6	90	15.0	8.1	3.0
343263	237	18	<100	4.7	120	22.5	10.9	5.7
343264	127	30	<100	8.4	60	27.0	13.5	5.8
343265	96	23	<100	25.8	580	14.8	7.6	3.3
343266	172	34	<100	7.3	150	27.5	16.5	5.7
343267	644	35	<100	5.9	170	69.4	33.4	16.8
343268	1690	8	<100	10.2	1840	426	206	149
343269	304	9	<100	18.8	910	140	76.8	50.2
343270	54	36	<100	15.4	190	8.5	5.1	2.2
343271	784	25	<100	3.7	330	164	83.8	52.0
343272	284	25	<100	10.8	110	34.0	17.3	9.5
343273	101	21	<100	4.2	100	55.5	30.1	12.6
343274	25	48	<100	2.0	320	8.3	4.5	3.2
343275	125	51	<100	8.7	530	15.5	9.0	4.9
343276	104	110	<100	10.2	2230	12.7	6.3	2.5
343277	40	10	<100	10.4	100	9.8	5.1	2.1
343278	73	15	<100	6.2	100	10.6	5.4	2.2
343279	113	89	<100	98.0	190	20.6	11.5	3.9
343280	168	77	<100	9.5	300	41.5	26.7	9.0

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343281	127	27	<100	8.3	290	86.8	47.3	19.3
343282	107	287	<100	4.8	130	27.0	19.8	2.8
343283	347	273	<100	10.8	90	65.8	31.1	12.0
343284	1090	19	<100	17.1	140	363	194	80.6
343285	741	93	<100	8.6	120	238	133	44.6
343286	118	36	<100	0.5	130	18.7	9.4	3.5
*Rep 343207	68	35	<100	7.0	360	13.3	7.3	3.5
*Rep 343223	194	50	<100	3.3	520	73.6	41.9	24.1
*Rep 343242	83	41	<100	2.9	50	16.3	9.4	2.9
*Rep 343257	121	21	<100	20.6	150	13.6	6.4	3.5
*Rep 343271	765	25	<100	3.8	330	161	81.9	50.9
*Rep 343275	122	49	<100	8.5	540	15.4	8.9	5.1
*Std MMISRM24	44	15	<100	10.2	240	3.8	1.6	1.3
*Blk BLANK	<2	<1	<100	<0.2	<10	<0.5	<0.2	<0.2
*Blk BLANK	4	<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
343201	29	8.6	49.1	<1	<0.1	8.9	113	2
343202	14	2.9	14.2	<1	<0.1	8.1	33	<1
343203	10	6.9	20.1	<1	<0.1	13.7	40	<1
343204	6	3.8	8.4	<1	<0.1	7.9	20	<1
343205	13	3.6	22.4	<1	<0.1	7.9	55	1
343206	43	11.8	30.0	<1	<0.1	7.4	103	4
343207	28	4.9	15.6	<1	<0.1	26.8	34	2
343208	48	12.6	84.0	<1	0.2	6.7	135	3
343209	27	10.7	32.3	<1	0.2	15.6	87	2
343210	39	15.2	25.5	<1	0.2	19.6	99	3
343211	11	8.1	21.3	<1	0.2	6.4	54	1
343212	35	9.5	37.6	<1	0.1	11.8	85	3
343213	41	6.8	44.1	<1	0.1	7.2	87	2
343214	32	10.0	38.4	<1	0.1	8.0	186	2
343215	137	59.0	19.8	<1	0.3	7.7	46	11
343216	16	6.7	34.1	<1	<0.1	6.2	90	2
343217	22	8.4	35.1	<1	<0.1	20.7	91	1
343218	17	3.3	44.1	<1	<0.1	14.0	89	1
343219	41	17.3	15.0	<1	0.1	8.5	31	4
343220	37	8.9	66.9	<1	0.2	11.4	128	3
343221	67	17.8	57.0	<1	0.2	8.9	244	4
343222	7	5.0	19.2	<1	<0.1	14.4	44	<1
343223	18	6.6	121	<1	<0.1	56.6	288	<1
343224	17	3.9	20.6	<1	<0.1	26.5	72	1
343225	69	13.1	21.1	<1	0.2	15.2	60	7
343226	63	15.6	36.5	<1	0.1	12.4	164	5
343227	23	6.7	104	<1	0.1	6.9	229	4
343228	25	9.3	10.9	<1	0.1	7.2	24	3
343229	6	4.6	44.8	<1	<0.1	8.1	165	<1
343230	25	9.0	84.3	<1	0.1	13.7	185	4
343231	21	6.6	8.6	<1	<0.1	6.7	26	2
343232	22	9.7	29.9	<1	0.1	8.9	113	2
343233	52	13.6	27.8	<1	0.2	18.9	64	5
343234	28	7.4	7.1	<1	<0.1	16.7	16	2
343235	7	1.7	151	<1	<0.1	17.7	319	<1
343236	7	1.5	24.7	<1	<0.1	8.7	35	<1
343237	30	11.9	34.4	<1	0.1	4.7	70	2
343238	13	5.6	17.3	<1	<0.1	5.7	49	1
343239	14	5.4	14.1	<1	<0.1	6.9	37	1
343240	17	5.5	39.9	<1	<0.1	8.3	95	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
343241	21	11.0	11.0	<1	<0.1	7.4	22	2
343242	52	21.7	11.5	<1	0.2	67.9	23	3
343243	33	12.0	16.1	<1	0.2	12.4	38	3
343244	22	6.4	153	<1	<0.1	5.2	384	2
343245	48	16.3	25.9	<1	<0.1	6.8	58	4
343246	122	19.5	10.9	<1	0.4	11.7	30	4
343247	20	13.5	26.1	1	<0.1	10.0	70	4
343248	18	8.7	50.7	1	<0.1	21.2	48	3
343249	19	7.3	10.5	<1	<0.1	6.5	18	2
343250	14	4.7	11.3	<1	<0.1	7.8	25	1
343251	21	10.8	19.1	<1	<0.1	11.3	52	3
343252	27	5.8	30.4	<1	<0.1	9.9	66	<1
343253	16	8.0	19.9	<1	<0.1	12.4	51	2
343254	27	9.4	19.6	<1	<0.1	11.4	38	3
343255	23	6.5	14.6	<1	<0.1	8.8	29	2
343256	16	3.6	68.3	<1	<0.1	13.3	233	<1
343257	18	4.4	13.9	<1	<0.1	10.7	30	2
343258	27	9.8	18.7	<1	<0.1	10.2	66	3
343259	18	6.8	14.9	<1	<0.1	7.9	42	<1
343260	9	4.8	5.7	<1	<0.1	6.3	8	<1
343261	113	11.9	13.6	<1	0.1	2.4	33	2
343262	17	7.6	12.5	<1	<0.1	6.3	36	2
343263	20	7.8	22.7	<1	<0.1	7.9	80	3
343264	20	13.9	22.9	<1	<0.1	5.6	66	2
343265	15	3.8	14.1	<1	<0.1	11.5	37	<1
343266	59	11.1	26.4	<1	<0.1	23.6	67	6
343267	39	11.7	70.7	<1	<0.1	16.1	235	3
343268	18	6.7	637	<1	<0.1	6.6	2710	1
343269	14	3.9	223	<1	<0.1	8.0	867	<1
343270	24	4.0	9.3	<1	<0.1	17.5	20	1
343271	19	4.1	233	<1	<0.1	20.2	553	1
343272	26	8.2	37.0	<1	<0.1	11.3	157	3
343273	27	6.2	64.0	<1	<0.1	14.4	152	2
343274	10	3.1	13.1	<1	<0.1	31.6	25	<1
343275	43	6.2	19.9	<1	<0.1	6.8	55	2
343276	12	4.1	9.8	<1	<0.1	4.9	16	2
343277	6	4.1	9.6	<1	<0.1	4.8	15	<1
343278	11	4.3	9.7	<1	<0.1	7.4	17	2
343279	32	10.3	16.8	<1	<0.1	12.6	25	3
343280	8	4.1	38.6	<1	<0.1	7.0	106	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
343281	17	5.3	96.2	<1	<0.1	8.4	345	1
343282	154	33.3	15.2	<1	0.3	23.8	39	12
343283	23	7.3	55.5	<1	<0.1	8.4	152	2
343284	27	14.5	387	<1	<0.1	8.1	796	5
343285	19	5.6	215	<1	<0.1	10.1	491	1
343286	49	19.2	15.3	<1	<0.1	9.3	49	2
*Rep 343207	29	4.9	15.0	<1	<0.1	27.7	33	2
*Rep 343223	17	6.1	108	<1	<0.1	49.7	251	<1
*Rep 343242	50	21.9	11.8	<1	0.2	59.2	24	3
*Rep 343257	16	4.1	13.8	<1	<0.1	10.2	31	2
*Rep 343271	19	3.9	227	<1	<0.1	20.6	528	1
*Rep 343275	44	6.5	21.3	<1	<0.1	7.6	55	2
*Std MMISRM24	8	2.4	5.5	2	<0.1	11.8	18	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	2	<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
343201	2.5	900	4	1.1	206	61	0.4	522
343202	3.8	1100	<2	<0.5	51	133	0.5	530
343203	1.2	1600	<2	<0.5	74	785	0.8	239
343204	3.0	1500	<2	<0.5	29	107	0.4	230
343205	6.3	1000	<2	<0.5	80	93	0.3	58
343206	7.4	5400	<2	<0.5	148	205	1.8	99
343207	20.8	2400	<2	<0.5	53	269	0.5	1210
343208	4.5	1400	4	4.2	261	102	0.8	1410
343209	2.1	2200	<2	2.7	115	63	0.8	547
343210	1.3	1700	3	2.2	126	129	2.2	440
343211	1.1	500	<2	<0.5	88	60	0.5	226
343212	5.1	1900	2	1.0	141	78	1.0	650
343213	9.4	4300	2	0.7	158	116	0.6	673
343214	1.8	1300	3	2.8	223	118	2.2	182
343215	2.2	700	6	19.7	73	64	1.0	667
343216	2.0	700	3	<0.5	153	72	1.3	231
343217	4.3	3400	3	<0.5	151	103	1.3	201
343218	9.1	3500	2	<0.5	166	134	0.4	375
343219	2.3	2300	2	2.1	48	79	1.0	509
343220	2.6	1600	3	1.5	249	96	2.4	480
343221	2.1	3200	6	3.5	313	167	3.3	292
343222	1.2	2400	<2	<0.5	70	74	0.3	244
343223	10.2	5300	4	<0.5	522	76	0.4	233
343224	29.0	2400	2	<0.5	104	111	0.3	527
343225	4.6	4900	3	1.9	88	205	1.7	745
343226	1.1	2000	6	2.5	218	49	5.2	187
343227	4.1	3500	4	<0.5	411	81	2.1	121
343228	2.5	1800	<2	<0.5	36	100	1.1	493
343229	1.4	1000	2	<0.5	233	27	0.2	151
343230	1.9	2000	4	0.8	370	43	2.1	237
343231	1.1	1500	<2	<0.5	34	98	1.0	340
343232	1.6	3000	<2	<0.5	154	79	1.8	206
343233	7.2	5400	2	2.0	106	252	1.8	340
343234	13.3	2100	3	1.4	23	85	0.5	293
343235	16.4	4300	<2	<0.5	588	71	0.2	83
343236	23.9	4900	3	<0.5	77	89	0.3	184
343237	1.0	400	2	1.1	142	65	1.0	205
343238	2.0	400	<2	<0.5	71	58	0.4	336
343239	2.7	700	<2	<0.5	56	87	0.7	422
343240	2.0	1100	<2	<0.5	153	62	0.9	240

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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
343241	3.5	1300	<2	<0.5	36	80	1.2	123
343242	3.6	400	2	0.8	43	142	1.5	381
343243	1.2	1400	<2	1.1	59	113	1.3	478
343244	4.8	2200	<2	2.1	595	22	0.6	171
343245	2.5	700	2	5.1	90	79	1.2	239
343246	15.3	600	<2	5.4	39	144	1.8	249
343247	2.2	1000	<2	1.8	103	42	2.1	100
343248	3.2	5800	<2	0.9	112	117	3.3	63
343249	1.7	600	<2	1.0	34	96	1.2	408
343250	1.0	400	<2	0.6	44	58	1.1	159
343251	1.3	900	<2	2.1	71	65	1.1	410
343252	60.0	2600	<2	<0.5	125	161	0.8	67
343253	1.0	1100	<2	1.6	82	101	1.4	173
343254	3.4	1100	<2	1.8	67	68	1.7	394
343255	12.0	1400	<2	0.7	44	63	0.7	244
343256	22.7	2200	<2	<0.5	284	49	0.4	382
343257	3.3	1700	<2	<0.5	51	77	1.2	218
343258	1.8	2600	<2	1.5	83	68	1.8	300
343259	1.7	2100	<2	<0.5	60	71	1.7	137
343260	1.5	1100	<2	<0.5	16	42	1.4	106
343261	0.6	700	2	2.8	45	51	3.2	115
343262	1.3	1400	<2	0.9	50	264	2.2	177
343263	2.0	1600	<2	1.5	108	84	2.2	191
343264	0.9	500	<2	1.3	104	90	1.1	301
343265	4.1	2600	<2	<0.5	58	351	1.5	452
343266	14.8	5800	2	2.7	106	176	1.4	1230
343267	3.9	4200	2	3.6	337	76	1.4	393
343268	6.1	300	2	0.5	3820	34	0.3	395
343269	7.5	1400	4	0.6	1300	25	0.4	111
343270	16.7	2300	<2	0.5	31	133	0.4	357
343271	21.4	2900	2	0.7	1080	111	0.5	261
343272	4.7	1600	<2	2.7	178	56	1.1	199
343273	24.6	3000	<2	1.1	237	153	0.4	398
343274	17.6	5400	<2	<0.5	49	123	0.2	78
343275	22.9	1900	<2	0.6	97	445	0.8	241
343276	1.7	500	<2	<0.5	34	220	1.4	173
343277	2.5	1000	<2	<0.5	30	76	0.2	73
343278	2.9	1200	<2	0.6	31	67	0.8	111
343279	3.6	2500	<2	0.8	55	168	2.2	418
343280	<0.5	1200	<2	<0.5	196	54	1.0	150

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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
343281	8.0	1000	<2	0.7	423	75	0.5	163
343282	19.9	200	<2	3.9	49	77	2.3	412
343283	2.7	700	<2	1.1	217	134	1.8	179
343284	1.6	2900	<2	2.9	1410	45	2.8	115
343285	4.1	12200	<2	0.8	729	61	0.7	37
343286	20.1	400	<2	2.1	61	72	1.4	119
*Rep 343207	21.7	2600	<2	<0.5	55	271	0.5	1180
*Rep 343223	10.4	5300	4	<0.5	459	85	0.4	262
*Rep 343242	2.9	400	2	0.9	46	130	1.5	400
*Rep 343257	3.0	1400	<2	<0.5	51	73	1.2	157
*Rep 343271	21.1	2900	2	0.7	1050	110	0.5	256
*Rep 343275	23.6	1900	<2	0.7	97	463	0.9	226
*Std MMISRM24	12.1	200	23	<0.5	27	116	0.4	241
*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
343201	<1	43.1	<0.1	163	2.3	41	46	<1
343202	<1	11.3	<0.1	156	2.1	24	13	<1
343203	<1	15.2	<0.1	161	2.5	28	17	<1
343204	<1	6.2	<0.1	239	2.0	11	7	<1
343205	<1	17.1	<0.1	149	2.1	42	19	<1
343206	<1	33.8	<0.1	144	2.4	134	32	<1
343207	<1	10.9	<0.1	222	2.1	39	14	<1
343208	<1	54.3	<0.1	67	1.8	36	70	2
343209	<1	26.3	<0.1	182	1.6	39	28	<1
343210	<1	29.3	<0.1	193	1.6	36	25	1
343211	<1	18.7	<0.1	103	0.6	25	19	<1
343212	<1	30.5	<0.1	185	1.0	24	33	<1
343213	<1	33.0	<0.1	132	1.6	30	41	<1
343214	<1	57.2	<0.1	182	0.8	33	44	<1
343215	<1	14.7	<0.1	77	1.6	50	18	6
343216	<1	34.3	<0.1	199	0.8	29	35	<1
343217	<1	32.5	<0.1	289	1.1	27	34	<1
343218	<1	35.2	<0.1	226	1.1	28	41	<1
343219	<1	9.8	<0.1	112	0.8	25	12	1
343220	<1	52.8	<0.1	119	0.7	37	62	<1
343221	<1	77.8	<0.1	224	1.6	40	65	2
343222	<1	14.3	<0.1	171	<0.5	27	16	<1
343223	<1	110	<0.1	328	1.1	105	116	<1
343224	<1	23.8	<0.1	292	0.6	12	21	<1
343225	<1	18.9	<0.1	169	1.0	44	21	1
343226	<1	51.7	<0.1	170	<0.5	30	40	<1
343227	<1	89.2	<0.1	104	<0.5	83	99	<1
343228	<1	7.7	<0.1	115	<0.5	17	9	<1
343229	<1	54.5	<0.1	136	1.0	27	50	<1
343230	<1	80.0	<0.1	180	<0.5	51	86	<1
343231	<1	7.7	<0.1	123	<0.5	13	8	<1
343232	<1	35.3	<0.1	133	<0.5	35	32	<1
343233	<1	22.9	<0.1	261	0.7	41	26	<1
343234	<1	4.8	<0.1	264	0.8	17	6	<1
343235	<1	119	<0.1	137	<0.5	36	134	<1
343236	<1	14.7	<0.1	115	<0.5	8	21	<1
343237	<1	29.9	<0.1	104	<0.5	29	31	<1
343238	<1	15.7	<0.1	105	<0.5	19	16	<1
343239	<1	12.0	<0.1	136	<0.5	14	13	<1
343240	<1	33.3	<0.1	176	<0.5	21	36	<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
343241	<1	7.7	<0.1	139	<0.5	12	9	<1
343242	<1	8.9	<0.1	146	0.8	27	10	<1
343243	<1	12.4	<0.1	140	<0.5	29	14	<1
343244	<1	131	<0.1	136	<0.5	92	143	<1
343245	<1	19.4	<0.1	156	<0.5	40	23	1
343246	<1	9.5	<0.1	155	0.9	36	10	2
343247	<1	23.2	<0.1	185	<0.5	26	25	<1
343248	<1	21.1	<0.1	336	<0.5	39	34	1
343249	<1	6.9	<0.1	130	<0.5	15	9	<1
343250	<1	9.3	<0.1	117	<0.5	16	10	<1
343251	<1	16.1	<0.1	124	<0.5	24	17	<1
343252	<1	25.3	<0.1	400	<0.5	10	32	<1
343253	<1	17.8	<0.1	140	0.7	19	19	<1
343254	<1	14.7	<0.1	164	<0.5	16	18	<1
343255	<1	9.7	<0.1	128	<0.5	11	12	<1
343256	<1	67.0	<0.1	274	<0.5	37	66	<1
343257	<1	10.8	<0.1	165	<0.5	31	14	<1
343258	<1	19.0	<0.1	139	<0.5	31	19	<1
343259	<1	13.1	<0.1	101	<0.5	34	14	<1
343260	<1	3.3	<0.1	107	<0.5	15	5	<1
343261	<1	10.4	<0.1	29	<0.5	27	12	<1
343262	<1	11.1	<0.1	100	<0.5	19	12	<1
343263	<1	25.2	<0.1	97	<0.5	19	23	<1
343264	<1	24.3	<0.1	114	<0.5	24	24	<1
343265	<1	12.7	<0.1	115	<0.5	15	13	<1
343266	<1	23.5	<0.1	193	<0.5	33	25	1
343267	<1	78.8	<0.1	249	0.7	43	74	1
343268	<1	889	<0.1	107	<0.5	128	720	<1
343269	<1	293	<0.1	70	<0.5	34	247	1
343270	<1	6.5	<0.1	203	<0.5	13	8	<1
343271	<1	224	<0.1	164	<0.5	34	241	<1
343272	<1	41.0	<0.1	197	<0.5	35	36	<1
343273	<1	50.4	<0.1	285	<0.5	24	56	<1
343274	<1	9.0	<0.1	216	<0.5	6	12	<1
343275	<1	19.9	<0.1	99	<0.5	35	21	<1
343276	<1	7.1	<0.1	92	<0.5	21	10	<1
343277	<1	5.9	<0.1	129	<0.5	15	9	<1
343278	<1	6.1	<0.1	155	<0.5	12	9	<1
343279	<1	11.0	<0.1	225	<0.5	28	14	<1
343280	<1	42.8	<0.1	83	<0.5	36	38	<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
343281	<1	95.9	<0.1	133	<0.5	33	85	<1
343282	<1	11.7	<0.1	768	<0.5	49	13	2
343283	<1	51.2	<0.1	184	<0.5	25	50	<1
343284	<1	307	<0.1	179	<0.5	78	335	<1
343285	<1	166	<0.1	226	<0.5	54	183	<1
343286	<1	14.1	<0.1	77	<0.5	23	14	<1
*Rep 343207	<1	11.0	<0.1	236	2.1	37	12	<1
*Rep 343223	<1	96.8	<0.1	300	1.0	88	103	<1
*Rep 343242	<1	9.8	<0.1	127	0.7	26	10	<1
*Rep 343257	<1	10.8	<0.1	167	<0.5	31	13	<1
*Rep 343271	<1	216	<0.1	168	<0.5	35	231	<1
*Rep 343275	<1	20.4	<0.1	99	<0.5	34	21	<1
*Std MMISRM24	5	6.6	2.7	139	<0.5	7	6	<1
*Blk BLANK	<1	<0.5	<0.1	<1	0.6	<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	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
343201	170	<1	7.7	<10	12.8	580	1.4	15.5
343202	230	<1	2.3	<10	5.2	60	2.6	6.0
343203	50	<1	3.4	<10	2.7	70	1.6	5.7
343204	220	<1	1.4	<10	3.7	40	1.7	2.7
343205	300	<1	3.3	<10	5.2	200	1.1	5.4
343206	100	<1	4.6	<10	13.6	670	1.9	4.6
343207	380	<1	2.4	<10	4.6	230	1.4	3.4
343208	450	<1	14.0	<10	12.7	1330	0.6	10.7
343209	160	<1	6.4	<10	26.2	910	0.8	9.2
343210	40	<1	4.4	<10	27.6	940	1.0	9.3
343211	60	<1	4.0	<10	7.0	280	0.3	4.2
343212	220	<1	7.2	<10	16.0	650	0.7	9.0
343213	580	<1	7.3	<10	25.9	520	1.1	12.4
343214	70	<1	6.2	<10	44.1	740	0.8	11.8
343215	110	<1	3.6	<10	13.9	6690	0.6	6.6
343216	80	<1	5.7	<10	14.8	340	0.9	10.0
343217	250	<1	5.4	<10	14.0	150	1.5	9.5
343218	530	<1	6.9	<10	13.7	160	1.0	20.0
343219	240	<1	3.0	<10	11.1	980	0.6	5.7
343220	230	<1	12.4	<10	30.1	540	0.9	15.5
343221	90	<1	9.5	<10	81.3	1110	2.1	25.3
343222	60	<1	3.8	<10	3.2	30	2.6	4.4
343223	200	<1	16.6	<10	13.3	60	3.1	27.8
343224	560	<1	2.9	<10	7.5	140	0.7	9.1
343225	260	<1	3.8	<10	15.7	1220	1.7	8.2
343226	60	<1	5.5	<10	23.4	660	1.5	27.5
343227	200	<1	18.1	<10	31.1	440	1.4	49.9
343228	250	<1	2.1	<10	7.6	440	0.6	5.6
343229	70	<1	6.7	<10	16.4	70	1.2	16.6
343230	50	<1	13.8	<10	21.1	580	1.0	17.5
343231	360	<1	1.6	<10	10.6	380	0.9	6.6
343232	50	<1	4.9	<10	20.1	490	0.9	8.8
343233	160	<1	5.2	<10	38.6	1040	0.9	9.1
343234	530	<1	1.4	<10	8.1	760	0.8	4.4
343235	690	<1	20.3	<10	5.8	20	1.0	43.9
343236	790	<1	3.6	<10	3.0	70	1.9	27.8
343237	80	<1	6.5	<10	12.6	560	0.6	11.6
343238	130	<1	2.9	<10	9.2	320	0.7	4.7
343239	210	<1	2.8	<10	10.4	260	0.5	6.8
343240	210	<1	7.3	<10	18.4	360	0.6	13.3

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343241	260	<1	2.1	<10	5.1	470	0.4	5.6
343242	100	<1	2.2	<10	7.4	890	0.5	4.0
343243	40	<1	3.6	<10	16.9	760	0.8	8.0
343244	390	<1	25.4	<10	34.0	650	1.1	55.2
343245	150	<1	4.8	<10	23.0	1580	0.6	10.0
343246	130	<1	1.9	<10	24.8	3400	0.9	4.9
343247	20	<1	4.1	<10	21.7	1250	0.5	10.9
343248	60	<1	10.5	<10	43.9	680	0.7	34.0
343249	60	<1	2.0	<10	6.7	420	0.4	3.5
343250	20	<1	2.0	<10	5.5	210	0.5	3.0
343251	20	<1	3.3	<10	10.1	660	0.6	4.0
343252	680	<1	4.3	<10	10.2	290	0.7	7.4
343253	20	<1	3.7	<10	13.9	470	0.6	7.3
343254	100	<1	3.8	<10	16.6	520	0.5	8.0
343255	770	<1	2.6	<10	5.9	220	0.6	10.7
343256	580	<1	9.4	<10	31.3	100	1.6	16.2
343257	90	<1	2.1	<10	9.7	240	1.1	7.0
343258	70	<1	2.9	<10	15.4	560	0.9	7.3
343259	40	<1	2.3	<10	7.0	200	0.9	5.1
343260	60	<1	1.0	<10	1.3	130	0.6	1.2
343261	100	<1	2.7	<10	11.7	770	0.5	7.5
343262	70	<1	2.2	<10	12.1	290	1.1	6.4
343263	140	<1	3.5	<10	18.7	460	0.7	9.2
343264	50	<1	3.9	<10	6.3	380	1.0	9.1
343265	210	<1	2.3	<10	5.0	80	1.6	3.9
343266	370	<1	4.1	<10	18.0	870	1.0	4.2
343267	150	<1	11.6	<10	42.4	1110	1.2	13.7
343268	530	<1	78.9	<10	28.1	160	1.8	56.1
343269	430	<1	26.0	<10	10.9	170	2.3	26.9
343270	930	<1	1.4	<10	3.3	180	0.6	2.7
343271	770	<1	30.1	<10	19.9	200	1.5	40.2
343272	130	<1	5.7	<10	22.1	860	1.5	8.0
343273	870	<1	8.8	<10	8.5	370	0.8	6.6
343274	820	<1	1.5	<10	4.0	40	0.7	3.0
343275	330	<1	2.6	<10	8.0	350	1.1	4.5
343276	80	<1	1.8	<10	2.5	90	0.7	3.7
343277	70	<1	1.4	<10	2.7	30	1.7	3.4
343278	230	<1	1.6	<10	4.7	230	1.2	4.4
343279	70	<1	2.9	<10	9.8	360	2.2	6.6
343280	20	<1	6.1	<10	7.6	130	1.2	10.2

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343281	220	<1	14.1	<10	13.6	470	1.5	15.1
343282	570	<1	3.2	<10	49.9	2330	0.5	17.3
343283	60	<1	9.9	<10	28.4	450	0.6	27.0
343284	20	<1	59.0	<10	55.0	1110	0.8	75.6
343285	180	<1	37.0	<10	32.6	340	0.9	45.5
343286	360	<1	2.8	<10	10.8	1950	0.1	3.2
*Rep 343207	380	<1	2.2	<10	4.7	220	1.6	3.3
*Rep 343223	230	<1	14.5	<10	12.4	60	3.3	25.2
*Rep 343242	90	<1	2.4	<10	7.6	910	0.5	4.2
*Rep 343257	90	<1	2.3	<10	9.3	210	1.2	7.0
*Rep 343271	780	<1	29.1	<10	20.1	210	1.5	39.8
*Rep 343275	340	<1	2.7	<10	7.9	370	1.1	4.2
*Std MMISRM24	1700	<1	0.8	<10	15.1	30	0.2	9.0
*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
343201	<0.5	276	17.7	270	10
343202	<0.5	69	5.9	220	7
343203	<0.5	201	15.1	1320	5
343204	<0.5	53	3.4	200	3
343205	<0.5	146	9.7	170	5
343206	<0.5	150	10.6	760	15
343207	<0.5	80	5.3	560	6
343208	0.7	516	33.4	790	14
343209	<0.5	217	16.3	390	22
343210	0.5	148	11.5	2750	20
343211	<0.5	166	12.0	1090	8
343212	<0.5	259	18.7	1010	10
343213	0.6	261	21.1	3270	10
343214	0.9	165	12.9	790	25
343215	1.5	127	11.5	250	24
343216	<0.5	165	10.8	730	10
343217	0.5	148	9.5	350	6
343218	<0.5	193	17.2	1150	7
343219	<0.5	107	8.5	600	12
343220	<0.5	305	20.8	1490	15
343221	2.4	204	16.7	480	28
343222	<0.5	139	8.3	260	3
343223	<0.5	474	47.5	90	7
343224	<0.5	97	6.5	300	4
343225	<0.5	119	9.1	1570	17
343226	0.7	158	11.0	280	19
343227	<0.5	573	43.5	570	16
343228	<0.5	82	5.7	1530	7
343229	<0.5	163	12.9	180	7
343230	<0.5	391	27.1	370	14
343231	<0.5	49	3.7	710	7
343232	<0.5	165	11.3	1090	14
343233	<0.5	167	14.6	7340	17
343234	<0.5	49	5.0	1110	9
343235	<0.5	980	63.7	510	7
343236	<0.5	110	8.5	420	3
343237	<0.5	226	17.1	530	8
343238	<0.5	87	6.1	520	7
343239	<0.5	76	5.1	1180	7
343240	<0.5	229	14.4	820	11

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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
343241	<0.5	60	3.3	750	5
343242	<0.5	78	6.6	1140	8
343243	<0.5	133	11.6	1880	14
343244	0.5	913	68.3	230	21
343245	<0.5	182	14.8	250	22
343246	<0.5	67	9.7	1540	8
343247	<0.5	130	7.4	490	7
343248	<0.5	470	34.9	9060	11
343249	<0.5	70	4.8	1480	6
343250	<0.5	76	5.4	1210	5
343251	<0.5	129	9.0	590	13
343252	<0.5	90	5.2	670	4
343253	<0.5	108	8.0	2750	10
343254	<0.5	108	7.9	3300	9
343255	<0.5	99	6.0	3720	3
343256	<0.5	303	23.0	440	8
343257	<0.5	60	4.4	1140	8
343258	<0.5	105	8.0	730	12
343259	<0.5	76	5.6	570	8
343260	<0.5	38	2.4	810	2
343261	<0.5	78	6.1	580	9
343262	<0.5	81	6.1	2790	8
343263	<0.5	108	8.0	800	9
343264	<0.5	142	10.7	790	7
343265	<0.5	81	5.7	2710	3
343266	0.5	160	13.7	4100	11
343267	0.5	323	24.8	600	21
343268	1.1	2550	139	60	16
343269	<0.5	1010	56.9	70	8
343270	<0.5	46	3.6	1060	3
343271	0.5	948	61.7	520	9
343272	<0.5	177	12.5	240	16
343273	<0.5	354	20.9	2780	8
343274	<0.5	51	3.3	1260	<2
343275	<0.5	84	7.4	440	6
343276	<0.5	64	4.7	650	3
343277	<0.5	52	4.2	90	<2
343278	<0.5	57	3.9	250	4
343279	0.9	109	9.1	1710	9
343280	<0.5	308	23.6	260	6

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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
343281	<0.5	593	34.1	350	4
343282	0.6	142	15.3	2650	12
343283	<0.5	351	23.7	3980	12
343284	1.2	2100	171	270	27
343285	0.7	1330	99.6	240	15
343286	<0.5	111	5.9	730	5
*Rep 343207	<0.5	78	5.1	590	6
*Rep 343223	<0.5	394	42.1	100	7
*Rep 343242	<0.5	83	6.7	1030	8
*Rep 343257	<0.5	59	4.8	1010	8
*Rep 343271	0.5	901	62.3	500	10
*Rep 343275	<0.5	87	7.5	430	6
*Std MMISRM24	<0.5	23	1.0	120	23
*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 : VC184717
[Report File No.: 0000034671]

Date: March 26, 2019

To: Garry Smith
DEVON GEOLOGICAL SERVICES LTD
 3267 STONECREST ROAD RR#2
 WOODLAWN ON K0A 3M0

P.O. No.: TEST: 421 Samples (87-172)
Project No.: -
Samples: 86
Received: Dec 17, 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 : DISPOSE AFTER 30 DAYS
 PULP STORAGE : DISPOSE AFTER 90 DAYS

Comments:

Upon Client's request, this Certificate/Report has been issued in more than one original. Only the first original is a legally binding document and may be used for any legal purpose, including payment.

Certified By :



Gerald Chik
 Operations Manager/Chief 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
343287	1.1	245	<10	<0.1	390	<0.5	15	24
343288	1.5	163	20	0.1	380	1.3	5	4
343289	0.8	267	<10	<0.1	530	<0.5	10	12
343290	1.3	207	<10	<0.1	830	0.8	64	4
343291	7.8	138	<10	<0.1	590	<0.5	124	14
343292	1.8	159	<10	<0.1	440	<0.5	32	25
343293	5.8	141	<10	<0.1	1270	<0.5	134	15
343294	6.6	200	<10	<0.1	280	<0.5	<2	28
343295	3.9	239	<10	<0.1	250	<0.5	10	26
343296	8.5	244	<10	<0.1	280	<0.5	5	18
343297	1.9	202	40	<0.1	570	4.2	33	22
343298	5.5	245	<10	0.1	170	<0.5	9	26
343299	6.6	200	<10	<0.1	300	<0.5	65	22
343300	7.8	217	<10	<0.1	280	<0.5	4	23
343301	2.7	209	<10	<0.1	300	<0.5	13	38
343302	2.4	222	<10	<0.1	500	<0.5	18	25
343303	9.6	215	<10	<0.1	1040	<0.5	54	17
343304	6.9	221	<10	<0.1	570	<0.5	7	30
343305	8.2	163	<10	<0.1	570	<0.5	52	19
343306	23.9	143	<10	<0.1	210	<0.5	36	18
343307	20.1	181	<10	<0.1	1180	<0.5	73	20
343308	12.7	181	<10	<0.1	650	<0.5	84	81
343309	3.3	176	<10	<0.1	490	<0.5	50	21
343310	1.9	161	<10	<0.1	290	<0.5	16	19
343311	9.8	175	<10	<0.1	1410	<0.5	105	17
343312	16.6	120	<10	0.1	1210	<0.5	92	13
343313	5.3	136	<10	<0.1	1760	<0.5	161	34
343314	6.0	279	<10	<0.1	260	0.6	5	31
343315	21.4	174	<10	<0.1	770	<0.5	40	20
343316	7.7	154	<10	<0.1	1330	<0.5	170	52
343317	15.4	165	<10	<0.1	760	<0.5	44	19
343318	8.9	222	10	<0.1	1300	<0.5	15	12
343319	6.8	225	<10	<0.1	630	<0.5	38	46
343320	9.7	168	<10	<0.1	550	<0.5	32	20
343321	7.2	200	<10	<0.1	1050	<0.5	39	24
343322	2.4	214	<10	<0.1	1510	<0.5	62	26
343323	4.6	195	<10	<0.1	360	<0.5	17	23
343324	4.2	225	<10	<0.1	2160	<0.5	47	66
343325	4.0	179	<10	<0.1	2050	<0.5	94	99
343326	3.9	194	<10	<0.1	3710	0.9	78	15

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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
343327	8.1	194	<10	<0.1	2510	<0.5	67	18
343328	5.6	181	<10	<0.1	390	<0.5	17	36
343329	9.1	199	<10	<0.1	390	<0.5	11	25
343330	25.8	275	<10	0.4	1550	<0.5	93	43
343331	3.6	148	<10	<0.1	1930	<0.5	461	77
343332	24.6	108	<10	<0.1	610	<0.5	258	16
343333	19.7	218	<10	<0.1	580	<0.5	79	30
343334	24.3	233	<10	<0.1	970	<0.5	79	23
343335	23.7	241	<10	<0.1	2180	<0.5	133	30
343336	23.8	130	<10	<0.1	1260	<0.5	232	19
343337	15.5	275	<10	<0.1	1280	<0.5	185	38
343338	23.7	235	<10	<0.1	560	<0.5	48	22
343339	15.1	174	<10	<0.1	1810	<0.5	87	22
343340	7.9	174	<10	<0.1	740	<0.5	38	13
343341	4.2	188	<10	<0.1	440	<0.5	43	29
343342	26.6	203	<10	<0.1	250	<0.5	34	8
343343	14.2	128	<10	<0.1	290	<0.5	92	13
343344	5.2	245	10	<0.1	560	<0.5	8	39
343345	7.2	143	<10	<0.1	1030	<0.5	91	13
343346	15.2	184	<10	<0.1	970	<0.5	26	12
343347	3.6	183	<10	<0.1	1160	<0.5	67	37
343348	6.8	175	<10	<0.1	890	<0.5	25	29
343349	14.1	169	<10	<0.1	340	<0.5	11	24
343350	8.1	135	<10	<0.1	130	<0.5	14	14
343351	8.9	194	<10	<0.1	880	0.7	58	41
343352	6.7	181	<10	<0.1	620	<0.5	15	12
343353	6.1	119	<10	<0.1	180	<0.5	11	11
343354	3.2	182	<10	<0.1	880	<0.5	22	28
343355	2.2	259	10	<0.1	660	<0.5	34	23
343356	2.1	178	<10	<0.1	2540	<0.5	47	20
343357	5.2	154	<10	<0.1	2280	<0.5	78	7
343358	4.8	202	<10	<0.1	680	<0.5	19	33
343359	3.1	225	<10	<0.1	350	<0.5	6	19
343360	2.4	229	<10	<0.1	1570	<0.5	32	44
343361	4.4	210	<10	<0.1	550	<0.5	33	17
343362	4.5	117	<10	<0.1	5160	<0.5	203	24
343363	2.7	57	<10	<0.1	9640	<0.5	522	24
343364	9.1	158	<10	<0.1	740	<0.5	76	15
343365	5.0	197	<10	<0.1	160	<0.5	13	15
343366	6.0	169	<10	<0.1	220	<0.5	10	32

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
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343367	5.8	190	<10	<0.1	170	<0.5	13	15
343368	6.9	121	<10	<0.1	940	<0.5	157	29
343369	3.9	205	<10	<0.1	1510	<0.5	215	21
343370	4.0	210	<10	<0.1	410	<0.5	32	21
343371	4.7	200	<10	<0.1	820	<0.5	25	34
343372	4.1	168	<10	<0.1	2170	<0.5	113	28
*Rep 343298	5.6	253	<10	<0.1	170	<0.5	9	27
*Rep 343306	22.5	148	<10	<0.1	220	<0.5	34	21
*Rep 343320	9.5	168	<10	<0.1	570	<0.5	35	21
*Rep 343337	15.6	267	<10	<0.1	1260	<0.5	191	40
*Rep 343348	6.9	168	<10	<0.1	820	<0.5	22	25
*Std MMISRM24	19.1	34	<10	3.3	130	<0.5	58	5
*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
343287		58	58	<100	6.0	90	13.4	7.8	2.0
343288		74	71	<100	7.4	200	8.4	5.4	1.2
343289		47	145	<100	4.7	60	12.6	10.4	1.3
343290		335	26	100	11.9	350	40.0	17.7	10.2
343291		183	15	<100	9.9	180	148	84.6	26.1
343292		147	54	<100	5.3	100	55.7	30.4	10.6
343293		166	15	<100	13.7	70	86.7	49.9	19.0
343294		56	32	<100	8.3	120	15.8	11.9	1.9
343295		146	63	<100	11.2	110	18.8	8.9	3.7
343296		161	177	<100	10.4	100	23.2	10.9	4.4
343297		162	50	<100	2.4	210	13.2	6.8	2.9
343298		118	112	<100	20.3	80	26.1	11.9	4.4
343299		108	18	<100	10.3	50	35.3	19.7	6.8
343300		135	74	<100	6.2	140	23.7	11.7	3.4
343301		44	88	<100	6.1	250	12.1	6.9	1.5
343302		179	44	<100	5.2	150	56.3	34.1	8.4
343303		197	60	<100	3.4	450	34.3	19.5	5.5
343304		164	69	<100	6.2	170	27.7	16.6	5.0
343305		178	17	<100	6.1	190	32.5	17.4	6.1
343306		116	43	<100	18.4	730	22.3	12.9	4.9
343307		64	32	<100	18.5	250	8.7	4.7	2.3
343308		81	221	<100	9.6	480	28.5	18.5	4.7
343309		119	147	<100	35.0	360	16.2	8.2	3.3
343310		43	12	<100	10.2	190	11.7	7.1	2.0
343311		80	55	<100	11.3	170	8.1	4.0	2.1
343312		244	173	<100	13.0	600	46.4	23.7	14.4
343313		61	48	<100	7.6	100	11.6	6.5	2.0
343314		137	46	<100	5.2	340	9.0	4.9	2.7
343315		180	25	<100	2.9	90	36.1	19.2	7.4
343316		28	27	<100	2.4	130	11.5	7.3	1.8
343317		89	20	<100	9.7	380	14.0	7.6	2.6
343318		447	20	<100	5.8	130	28.4	12.7	7.4
343319		56	74	<100	20.0	720	14.5	8.8	3.2
343320		66	41	<100	4.5	140	16.3	9.5	2.7
343321		48	54	<100	2.3	90	14.0	8.1	2.7
343322		465	76	<100	3.1	260	117	66.2	21.5
343323		190	46	<100	8.0	110	20.8	10.4	4.3
343324		159	44	<100	6.5	410	42.2	24.5	7.1
343325		97	42	<100	8.4	160	19.9	10.6	2.7
343326		373	71	<100	6.2	500	42.5	22.7	12.6

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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
343327	299	68	<100	5.8	720	63.2	31.9	13.7
343328	14	18	<100	11.6	250	5.7	3.3	0.7
343329	96	13	<100	6.3	170	15.1	7.6	2.8
343330	128	147	<100	14.0	750	19.5	11.5	4.5
343331	84	54	<100	6.0	150	11.3	6.9	2.9
343332	36	14	<100	7.5	240	12.2	8.8	3.3
343333	230	68	<100	7.9	330	22.8	11.7	5.4
343334	260	129	<100	7.8	340	20.9	10.4	5.0
343335	184	106	<100	12.3	390	75.1	41.9	16.0
343336	44	19	<100	6.4	290	9.5	6.0	2.6
343337	209	22	100	11.9	270	15.2	7.1	5.9
343338	160	93	200	7.5	1070	20.6	10.6	5.9
343339	126	13	<100	3.0	70	14.6	7.2	3.2
343340	327	18	<100	7.7	330	34.2	16.3	8.4
343341	49	77	<100	11.2	340	9.8	4.8	1.9
343342	133	11	<100	5.3	670	17.5	7.4	5.0
343343	77	14	<100	9.3	180	19.4	10.0	4.1
343344	235	44	<100	17.7	310	39.0	20.8	9.0
343345	277	53	<100	14.9	390	60.5	32.3	16.8
343346	146	15	<100	4.2	50	19.5	9.9	4.6
343347	76	29	<100	6.0	130	12.3	7.1	2.3
343348	122	33	<100	5.1	210	14.8	8.7	3.6
343349	24	23	<100	12.8	260	5.4	3.1	1.0
343350	81	20	<100	5.8	310	11.0	7.4	2.3
343351	35	146	<100	12.2	430	8.0	5.1	1.3
343352	92	48	<100	3.9	70	22.5	12.2	4.2
343353	147	14	<100	5.3	60	16.0	8.6	3.5
343354	188	62	<100	3.7	60	23.4	12.8	4.5
343355	76	62	<100	1.6	120	10.6	6.6	2.6
343356	213	159	<100	6.2	120	46.7	24.2	11.1
343357	308	39	<100	4.8	70	85.2	43.2	20.8
343358	281	62	<100	7.0	80	48.3	26.1	11.3
343359	284	16	<100	3.4	40	27.5	14.4	6.4
343360	42	37	<100	1.0	90	14.1	8.0	2.0
343361	207	22	<100	3.5	60	27.5	15.2	5.7
343362	111	4	<100	3.8	60	55.3	33.3	11.7
343363	71	12	<100	0.3	80	9.2	4.4	2.8
343364	159	143	<100	6.9	110	22.7	12.1	3.8
343365	474	27	<100	14.0	70	110	53.5	17.5
343366	132	49	<100	4.7	120	19.4	11.3	4.2

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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
343367	155	110	<100	8.4	60	29.1	14.9	5.3
343368	195	51	<100	3.5	50	40.3	22.0	7.9
343369	113	39	<100	3.0	110	22.6	12.0	4.2
343370	236	40	<100	6.4	140	34.3	15.6	6.7
343371	88	37	<100	5.2	70	19.1	9.9	3.1
343372	83	77	<100	2.9	70	19.9	11.3	3.2
*Rep 343298	108	125	<100	20.0	90	25.7	11.9	4.2
*Rep 343306	119	42	<100	21.9	710	22.0	12.6	5.0
*Rep 343320	62	41	<100	4.5	150	15.6	9.6	2.6
*Rep 343337	184	23	100	11.1	270	14.6	6.8	5.3
*Rep 343348	120	30	<100	4.9	190	14.7	8.2	3.6
*Std MMISRM24	44	16	<100	9.1	230	3.6	1.4	1.1
*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
343287	57	21.3	9.4	<1	0.1	7.3	20	9
343288	308	20.7	6.4	<1	<0.1	18.3	28	10
343289	71	14.8	7.7	<1	0.3	12.0	23	4
343290	22	46.1	49.1	<1	<0.1	15.0	163	13
343291	21	5.7	142	<1	<0.1	14.6	213	4
343292	11	4.7	53.4	<1	<0.1	9.1	100	1
343293	18	8.1	98.7	<1	<0.1	15.3	175	3
343294	33	9.9	9.4	<1	<0.1	7.5	20	2
343295	25	11.5	17.2	<1	<0.1	5.0	57	<1
343296	34	8.8	21.3	<1	0.1	8.6	65	3
343297	86	30.6	13.8	<1	0.3	8.8	77	5
343298	20	6.1	21.6	<1	<0.1	8.7	42	2
343299	31	14.3	31.4	<1	<0.1	10.8	57	4
343300	10	4.1	14.9	<1	<0.1	6.3	30	<1
343301	19	6.6	6.7	<1	<0.1	12.2	12	2
343302	47	14.3	42.1	<1	0.2	6.7	74	3
343303	41	10.7	24.6	<1	<0.1	10.0	39	7
343304	24	13.0	20.9	<1	<0.1	13.0	54	2
343305	41	7.2	26.4	<1	<0.1	7.2	53	2
343306	7	5.5	22.4	<1	<0.1	7.4	64	<1
343307	19	5.1	9.6	<1	<0.1	7.1	28	<1
343308	38	5.6	22.6	<1	<0.1	12.4	41	3
343309	59	8.5	14.1	<1	<0.1	9.3	35	3
343310	21	10.6	8.7	<1	<0.1	9.9	17	1
343311	25	5.4	9.4	<1	<0.1	10.0	31	3
343312	25	6.1	56.4	<1	<0.1	16.6	237	<1
343313	15	4.0	9.3	<1	<0.1	12.0	20	<1
343314	41	24.2	8.4	<1	<0.1	14.0	59	3
343315	18	7.5	31.4	<1	<0.1	5.9	69	<1
343316	29	6.5	8.3	<1	<0.1	19.4	14	2
343317	13	5.1	11.0	<1	<0.1	8.0	22	1
343318	29	8.3	27.8	<1	<0.1	4.9	119	1
343319	54	18.9	13.9	1	<0.1	13.6	22	4
343320	29	8.5	11.7	<1	<0.1	5.6	21	2
343321	32	9.4	10.6	<1	<0.1	6.3	23	3
343322	58	10.3	106	<1	0.2	7.4	227	4
343323	21	8.7	19.3	<1	<0.1	6.1	46	1
343324	38	12.0	32.1	<1	<0.1	17.3	71	5
343325	25	6.2	14.0	<1	<0.1	13.3	26	1
343326	171	12.7	52.1	<1	0.2	2.6	206	6

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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
343327	31	9.5	57.4	<1	<0.1	8.7	158	3
343328	24	4.3	3.4	<1	<0.1	10.3	5	<1
343329	9	5.3	11.9	<1	<0.1	5.3	25	<1
343330	88	16.0	19.5	<1	<0.1	10.8	58	8
343331	47	7.7	12.9	<1	<0.1	12.0	31	2
343332	9	4.9	12.8	<1	<0.1	43.2	35	<1
343333	46	11.7	20.7	<1	<0.1	11.4	67	4
343334	25	5.7	19.6	<1	<0.1	5.8	58	1
343335	69	11.1	67.1	<1	0.2	11.7	118	9
343336	26	6.1	11.5	<1	<0.1	16.8	28	1
343337	50	9.4	18.9	<1	<0.1	14.3	98	5
343338	85	19.5	22.2	1	<0.1	7.1	84	9
343339	13	4.3	14.7	<1	<0.1	6.7	51	<1
343340	16	6.9	33.6	<1	<0.1	8.1	139	<1
343341	13	4.5	7.8	<1	<0.1	5.2	16	1
343342	21	9.0	18.0	1	<0.1	6.2	51	3
343343	5	2.1	18.1	<1	<0.1	5.8	40	<1
343344	30	9.7	37.6	<1	<0.1	5.8	77	3
343345	37	6.9	67.7	<1	<0.1	7.9	212	2
343346	13	6.2	19.6	<1	<0.1	10.5	62	1
343347	31	10.0	10.1	<1	<0.1	12.5	30	2
343348	27	11.8	14.6	<1	<0.1	8.9	40	3
343349	17	8.0	4.6	<1	<0.1	10.2	10	<1
343350	6	4.4	9.6	<1	<0.1	4.6	29	<1
343351	59	8.7	5.6	<1	<0.1	10.2	14	4
343352	18	8.1	18.2	<1	<0.1	4.7	39	3
343353	9	6.1	14.9	<1	<0.1	7.2	55	<1
343354	20	5.9	19.1	<1	<0.1	7.9	48	2
343355	79	19.3	9.7	<1	0.1	6.3	42	5
343356	108	20.4	50.6	<1	<0.1	7.3	199	13
343357	28	8.7	96.4	<1	<0.1	8.2	329	4
343358	26	10.2	52.7	<1	<0.1	6.5	133	4
343359	28	13.3	27.1	<1	<0.1	6.9	98	4
343360	45	19.5	9.8	<1	0.1	17.7	13	3
343361	49	22.6	25.8	<1	<0.1	8.0	76	7
343362	16	3.8	54.4	<1	<0.1	11.6	74	3
343363	43	1.5	11.5	<1	<0.1	9.7	35	1
343364	72	9.1	18.1	<1	<0.1	13.2	39	5
343365	13	5.7	91.3	1	<0.1	10.2	151	1
343366	17	6.5	17.3	<1	<0.1	4.5	42	1

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343367	18	7.3	29.6	<1	<0.1	10.1	65	2
343368	38	8.5	41.2	<1	<0.1	12.1	87	3
343369	28	10.2	21.2	<1	<0.1	6.6	61	1
343370	16	7.1	29.4	<1	<0.1	8.2	74	2
343371	13	5.3	14.0	<1	<0.1	6.1	28	1
343372	41	11.1	15.4	<1	<0.1	22.5	35	3
*Rep 343298	20	6.2	20.3	<1	<0.1	9.3	39	2
*Rep 343306	8	6.5	21.1	<1	<0.1	7.7	63	<1
*Rep 343320	29	8.5	11.6	<1	<0.1	5.7	20	2
*Rep 343337	54	10.6	18.7	<1	<0.1	14.8	87	6
*Rep 343348	23	10.7	14.4	<1	<0.1	8.3	40	3
*Std MMISRM24	9	3.1	5.2	3	<0.1	11.2	17	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 ppm	100 ppb	2 ppb	0.5 ppb	1 ppb	5 ppb	0.1 ppm	5 ppb
343287	3.9	1500	2	5.0	30	72	2.6	362
343288	3.5	700	3	8.0	25	85	4.5	74
343289	7.7	300	<2	1.9	25	111	1.7	128
343290	5.0	3800	3	22.6	201	74	12.9	190
343291	7.3	700	<2	1.3	383	107	0.4	69
343292	1.8	1000	<2	0.7	176	99	0.6	297
343293	5.8	1800	<2	1.0	314	70	0.7	104
343294	0.6	300	<2	1.9	31	71	0.7	340
343295	0.8	500	<2	1.7	74	80	0.8	274
343296	1.5	700	<2	2.2	91	108	1.5	231
343297	4.8	300	6	7.5	76	121	7.5	977
343298	2.0	600	<2	<0.5	71	76	2.0	107
343299	6.7	4100	<2	2.2	106	99	2.3	78
343300	0.7	900	<2	0.6	48	55	0.8	229
343301	3.2	600	<2	<0.5	21	90	1.3	542
343302	2.1	1800	<2	2.8	140	97	1.4	233
343303	5.4	400	<2	2.5	79	97	0.6	385
343304	1.3	600	<2	1.8	86	110	1.1	384
343305	2.0	800	<2	1.3	83	50	0.4	175
343306	1.5	900	<2	<0.5	100	50	0.3	168
343307	1.8	500	<2	<0.5	38	43	0.6	171
343308	5.3	1700	<2	0.7	71	154	0.7	775
343309	5.4	5500	<2	0.9	58	127	0.9	222
343310	2.3	900	<2	0.6	32	49	0.5	269
343311	9.0	1400	<2	<0.5	38	89	0.7	157
343312	8.6	3200	<2	0.9	271	86	0.5	115
343313	15.1	1300	<2	1.3	26	70	0.3	453
343314	2.7	200	24	7.4	66	111	1.6	257
343315	0.9	600	<2	1.1	107	31	0.4	219
343316	8.7	2300	<2	1.1	21	96	0.4	675
343317	2.2	1100	<2	0.9	36	47	0.6	267
343318	1.0	500	2	3.1	146	23	1.4	291
343319	2.1	4200	2	1.9	42	372	2.5	150
343320	5.8	500	<2	1.1	37	105	0.4	223
343321	4.3	700	<2	2.4	34	61	0.7	435
343322	5.3	800	<2	2.7	382	97	1.9	981
343323	0.6	1000	<2	1.0	69	68	0.7	282
343324	5.0	3700	<2	2.8	116	155	1.7	1130
343325	8.9	2300	<2	1.0	36	103	0.6	849
343326	2.5	400	4	3.5	256	101	2.8	360

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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
343327	4.5	900	2	3.4	210	50	0.9	642
343328	1.4	600	<2	<0.5	10	64	0.8	399
343329	0.6	500	<2	0.5	48	122	0.8	239
343330	4.5	3000	4	3.7	74	290	1.9	1110
343331	44.5	3700	<2	<0.5	56	334	0.4	1200
343332	5.8	1200	<2	<0.5	56	52	0.4	170
343333	3.3	3800	<2	2.6	82	125	1.4	416
343334	4.0	500	3	0.6	80	232	1.7	227
343335	8.2	1100	<2	3.5	222	141	0.9	401
343336	11.0	800	<2	1.0	39	61	0.4	264
343337	36.7	2700	<2	1.0	124	199	1.9	378
343338	4.2	11000	4	1.9	98	307	6.9	104
343339	2.4	500	<2	1.1	55	50	0.7	172
343340	2.2	1900	<2	0.8	155	25	1.2	126
343341	3.7	600	<2	<0.5	28	144	0.8	288
343342	1.2	1700	2	0.8	70	37	1.7	89
343343	1.5	700	<2	<0.5	63	47	0.3	66
343344	1.6	1400	<2	1.2	159	173	1.8	152
343345	4.0	3200	<2	0.7	334	81	0.5	293
343346	1.1	300	<2	1.2	79	35	0.7	158
343347	5.9	1400	<2	1.5	37	98	1.0	406
343348	2.4	1200	<2	1.6	62	99	0.9	386
343349	1.6	1900	<2	<0.5	19	142	1.0	269
343350	<0.5	300	<2	<0.5	45	24	0.3	143
343351	9.9	2400	<2	1.1	18	248	1.0	1660
343352	1.3	300	<2	1.1	68	54	0.7	189
343353	<0.5	600	<2	<0.5	68	28	0.2	102
343354	1.2	700	<2	1.7	73	101	0.8	442
343355	5.5	600	<2	2.0	52	104	1.5	321
343356	5.4	10900	3	9.1	222	95	1.5	75
343357	3.4	3500	<2	2.8	422	32	0.8	71
343358	1.8	300	<2	2.3	222	64	1.2	144
343359	1.1	300	<2	2.4	145	32	1.9	147
343360	6.4	2100	<2	2.4	29	82	1.9	447
343361	2.9	6900	2	7.0	107	46	2.6	124
343362	10.8	1500	<2	0.7	155	68	0.6	171
343363	43.6	700	<2	<0.5	45	68	0.4	30
343364	4.3	8500	2	2.9	58	64	1.4	166
343365	0.8	2400	<2	<0.5	295	38	1.7	87
343366	0.9	600	<2	0.8	69	84	0.7	306

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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
343367	1.4	2600	<2	0.8	116	47	1.2	90
343368	12.1	10300	<2	1.3	124	88	0.6	173
343369	24.5	700	<2	0.8	70	73	0.6	333
343370	2.0	700	<2	1.4	107	49	1.1	230
343371	2.0	1000	<2	0.7	47	67	0.7	165
343372	14.1	2100	<2	1.3	50	93	1.4	181
*Rep 343298	2.2	600	<2	<0.5	68	82	2.0	103
*Rep 343306	1.4	1100	<2	<0.5	97	59	0.4	192
*Rep 343320	6.2	500	<2	1.1	34	109	0.4	212
*Rep 343337	36.6	3300	2	1.1	107	211	2.2	435
*Rep 343348	2.0	1100	<2	1.3	62	85	0.8	332
*Std MMISRM24	11.7	200	20	<0.5	25	115	0.5	230
*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
343287	<1	6.1	<0.1	114	0.7	31	8	2
343288	<1	6.4	<0.1	162	1.9	30	6	3
343289	<1	5.9	<0.1	183	<0.5	24	7	<1
343290	<1	48.0	<0.1	223	1.1	48	48	6
343291	<1	76.4	<0.1	292	<0.5	35	111	<1
343292	<1	36.3	<0.1	132	<0.5	31	44	<1
343293	<1	62.1	<0.1	305	<0.5	29	86	<1
343294	<1	7.1	<0.1	162	0.5	39	8	<1
343295	<1	17.3	<0.1	121	<0.5	23	16	<1
343296	<1	20.6	<0.1	152	0.7	25	20	<1
343297	<1	19.4	<0.1	164	2.8	36	15	10
343298	<1	15.6	<0.1	242	<0.5	14	18	<1
343299	<1	20.9	<0.1	230	<0.5	29	27	<1
343300	<1	10.5	<0.1	97	<0.5	24	12	<1
343301	<1	3.9	<0.1	86	<0.5	17	5	<1
343302	<1	29.4	<0.1	142	<0.5	32	34	<1
343303	<1	15.5	<0.1	63	<0.5	27	21	<1
343304	<1	18.7	<0.1	82	<0.5	33	19	<1
343305	<1	17.2	<0.1	85	<0.5	25	21	<1
343306	<1	21.5	<0.1	186	<0.5	25	21	<1
343307	<1	8.6	<0.1	148	<0.5	28	9	<1
343308	<1	14.6	<0.1	92	<0.5	33	18	<1
343309	<1	12.6	<0.1	191	<0.5	20	13	<1
343310	<1	6.2	<0.1	120	<0.5	25	7	<1
343311	<1	8.5	<0.1	128	<0.5	18	8	<1
343312	<1	65.0	<0.1	192	<0.5	68	58	<1
343313	<1	5.3	<0.1	164	<0.5	16	7	<1
343314	<1	16.9	<0.1	102	<0.5	21	10	2
343315	<1	22.3	<0.1	123	<0.5	28	28	<1
343316	<1	4.2	<0.1	169	<0.5	16	6	<1
343317	<1	7.4	<0.1	152	<0.5	17	9	<1
343318	<1	34.6	<0.1	122	<0.5	30	29	<1
343319	<1	8.2	<0.1	117	<0.5	62	12	<1
343320	<1	7.2	<0.1	104	<0.5	20	9	<1
343321	<1	6.9	<0.1	100	<0.5	22	8	<1
343322	<1	80.6	<0.1	80	<0.5	65	92	<1
343323	<1	15.0	<0.1	157	<0.5	23	17	<1
343324	<1	24.8	<0.1	193	0.5	30	28	1
343325	<1	7.7	<0.1	208	<0.5	17	10	<1
343326	<1	60.6	<0.1	53	1.2	59	53	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
343327	<1	46.6	<0.1	119	<0.5	53	50	<1
343328	<1	2.1	<0.1	238	<0.5	10	2	<1
343329	<1	9.9	<0.1	89	<0.5	16	11	<1
343330	<1	16.3	<0.1	168	0.7	61	18	2
343331	<1	11.5	<0.1	78	<0.5	23	13	<1
343332	<1	11.7	<0.1	411	<0.5	24	13	<1
343333	<1	18.9	<0.1	101	0.6	40	19	<1
343334	<1	19.1	<0.1	58	1.0	21	20	<1
343335	<1	45.7	<0.1	162	<0.5	49	58	<1
343336	<1	7.7	<0.1	149	<0.5	24	10	<1
343337	<1	27.9	<0.1	132	<0.5	31	23	<1
343338	<1	22.9	<0.1	74	0.8	92	22	<1
343339	<1	12.1	<0.1	155	<0.5	16	13	<1
343340	<1	36.8	<0.1	171	<0.5	38	34	<1
343341	<1	5.9	<0.1	79	<0.5	14	7	<1
343342	<1	15.1	<0.1	55	<0.5	57	17	<1
343343	<1	12.9	<0.1	172	<0.5	22	16	<1
343344	<1	34.0	<0.1	102	<0.5	34	35	<1
343345	<1	74.3	<0.1	107	<0.5	33	68	<1
343346	<1	18.1	<0.1	130	<0.5	20	18	<1
343347	<1	7.9	<0.1	188	<0.5	17	9	<1
343348	<1	13.2	<0.1	118	<0.5	34	14	<1
343349	<1	3.6	<0.1	163	<0.5	15	4	<1
343350	<1	9.5	<0.1	119	<0.5	18	9	<1
343351	<1	3.9	<0.1	144	<0.5	24	4	<1
343352	<1	14.3	<0.1	84	<0.5	21	15	<1
343353	<1	15.7	<0.1	100	<0.5	19	14	<1
343354	<1	15.9	<0.1	116	<0.5	22	18	<1
343355	<1	12.0	<0.1	90	<0.5	39	10	<1
343356	<1	54.2	<0.1	109	<0.5	33	49	2
343357	<1	100	<0.1	130	<0.5	33	90	<1
343358	<1	47.7	<0.1	101	<0.5	21	47	<1
343359	<1	32.9	<0.1	125	<0.5	23	28	<1
343360	<1	5.5	<0.1	75	<0.5	21	7	<1
343361	<1	23.5	<0.1	226	<0.5	29	23	2
343362	<1	29.9	<0.1	154	<0.5	31	44	<1
343363	<1	9.9	<0.1	138	<0.5	7	10	<1
343364	<1	12.9	<0.1	169	<0.5	19	16	<1
343365	<1	61.9	<0.1	251	<0.5	40	77	<1
343366	<1	15.1	<0.1	94	<0.5	23	16	<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
343367	<1	24.5	<0.1	169	<0.5	18	26	<1
343368	<1	26.7	<0.1	317	<0.5	17	33	<1
343369	<1	15.5	<0.1	182	<0.5	15	17	<1
343370	<1	23.7	<0.1	193	<0.5	24	25	<1
343371	<1	9.5	<0.1	154	<0.5	17	11	<1
343372	<1	10.3	<0.1	275	<0.5	18	12	<1
*Rep 343298	<1	14.3	<0.1	243	<0.5	14	17	<1
*Rep 343306	<1	20.9	<0.1	200	<0.5	26	22	<1
*Rep 343320	<1	7.0	<0.1	107	<0.5	21	9	<1
*Rep 343337	<1	25.3	<0.1	131	<0.5	31	20	<1
*Rep 343348	<1	13.5	<0.1	117	<0.5	31	14	<1
*Std MMISRM24	5	5.9	2.2	127	<0.5	6	5	<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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	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
343287	50	<1	1.8	<10	14.9	1610	0.8	3.8
343288	40	<1	1.2	<10	26.8	3910	1.2	10.4
343289	90	<1	1.5	<10	35.8	1070	0.6	8.9
343290	90	1	7.1	<10	35.9	9510	1.4	17.1
343291	190	<1	23.1	<10	18.3	430	0.2	26.4
343292	70	<1	8.9	<10	14.3	260	0.4	10.9
343293	140	<1	14.5	<10	20.3	610	0.7	18.1
343294	<10	<1	1.9	<10	12.4	670	0.4	6.8
343295	30	<1	3.0	<10	20.0	1100	0.6	5.4
343296	20	<1	3.5	<10	30.6	1370	0.7	8.0
343297	70	<1	2.1	<10	34.7	8410	0.6	8.8
343298	20	<1	3.9	<10	13.1	430	0.7	6.5
343299	60	<1	5.4	<10	11.9	1930	0.3	3.9
343300	10	<1	3.5	<10	10.5	190	0.5	10.1
343301	50	<1	1.5	<10	6.4	250	0.5	3.5
343302	100	<1	7.9	<10	11.2	830	0.9	8.1
343303	250	<1	4.8	<10	8.7	760	0.4	4.4
343304	20	<1	4.0	<10	7.5	610	0.8	5.4
343305	110	<1	4.2	<10	8.6	440	1.1	5.2
343306	40	<1	3.4	<10	4.9	40	1.1	4.2
343307	120	<1	1.3	<10	5.1	310	1.7	2.7
343308	120	<1	4.0	<10	5.3	400	1.4	4.6
343309	130	<1	2.2	<10	7.1	560	1.4	7.3
343310	50	<1	1.6	<10	1.9	530	0.5	1.6
343311	120	<1	1.3	<10	5.7	470	1.0	2.2
343312	160	<1	8.1	<10	16.7	370	1.5	8.5
343313	490	<1	1.7	<10	8.4	380	0.5	3.0
343314	40	<1	1.3	<10	12.6	2710	0.5	4.0
343315	140	<1	5.3	<10	15.6	330	0.7	6.0
343316	660	<1	1.5	<10	4.2	370	0.4	2.5
343317	90	<1	2.0	<10	10.7	270	0.6	4.5
343318	70	<1	4.7	<10	53.4	860	0.7	12.8
343319	50	<1	2.1	<10	7.5	1220	1.0	4.6
343320	160	<1	2.1	<10	5.7	400	0.6	5.1
343321	220	<1	1.9	<10	4.2	750	0.5	1.9
343322	240	<1	18.1	<10	35.9	750	1.0	9.1
343323	50	<1	3.3	<10	22.2	360	0.9	10.1
343324	170	<1	5.7	<10	16.6	850	1.4	5.0
343325	350	<1	2.6	<10	16.5	360	0.9	4.6
343326	130	<1	7.3	<10	44.1	920	1.3	10.4

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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
343327	210	<1	10.1	<10	21.4	1100	0.7	9.6
343328	90	<1	0.7	<10	1.4	120	0.8	1.4
343329	40	<1	2.2	<10	7.4	180	0.6	4.1
343330	130	<1	2.9	<10	17.9	1970	1.8	6.1
343331	1010	<1	1.8	<10	8.8	290	0.5	4.1
343332	400	<1	1.8	<10	3.9	50	3.1	8.7
343333	80	<1	3.3	<10	19.7	910	1.1	9.0
343334	140	<1	3.4	<10	23.5	230	0.6	10.1
343335	350	<1	11.3	<10	17.8	1170	1.0	22.7
343336	280	<1	1.4	<10	4.0	490	0.8	3.8
343337	480	<1	2.5	<10	17.7	940	1.0	12.3
343338	40	<1	3.3	<10	13.7	1160	0.6	5.1
343339	170	<1	2.2	<10	12.8	310	0.7	3.4
343340	50	<1	5.6	<10	21.6	250	0.5	10.5
343341	160	<1	1.4	<10	1.9	210	0.6	1.6
343342	20	<1	2.9	<10	8.8	470	0.6	7.2
343343	120	<1	3.1	<10	8.7	40	1.1	16.1
343344	20	<1	6.2	<10	12.0	520	1.1	14.8
343345	150	<1	10.0	<10	9.8	350	1.3	10.8
343346	80	<1	3.0	<10	11.5	330	0.9	4.6
343347	200	<1	1.8	<10	6.2	660	0.7	2.5
343348	60	<1	2.2	<10	10.9	700	1.1	5.1
343349	30	<1	0.8	<10	2.3	190	0.8	1.5
343350	20	<1	1.6	<10	3.9	50	0.3	3.8
343351	190	<1	1.0	<10	5.0	620	1.3	2.3
343352	50	<1	3.2	<10	5.0	380	0.4	4.6
343353	<10	<1	2.3	<10	7.8	140	0.4	7.4
343354	80	<1	3.5	<10	11.7	460	0.7	4.3
343355	160	<1	1.5	<10	8.2	1130	0.3	2.7
343356	190	<1	7.9	<10	15.9	2360	1.1	16.2
343357	90	<1	14.1	<10	24.7	770	0.7	23.1
343358	50	<1	7.8	<10	10.7	770	0.4	12.2
343359	20	<1	4.2	<10	14.1	830	0.2	8.1
343360	120	<1	1.9	<10	6.5	1200	0.3	1.9
343361	30	<1	4.1	<10	17.8	3190	0.7	6.9
343362	460	<1	8.4	<10	11.0	280	0.4	22.2
343363	1650	<1	1.6	<10	4.1	110	0.3	7.2
343364	90	<1	3.3	<10	18.1	890	0.8	7.9
343365	10	<1	16.7	<10	24.1	300	0.6	30.4
343366	20	<1	2.9	<10	10.4	300	0.4	5.0

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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
343367	40	<1	4.5	<10	9.7	490	0.6	9.3
343368	310	<1	6.4	<10	16.5	710	0.8	11.5
343369	940	<1	3.3	<10	14.3	580	0.4	5.3
343370	120	<1	5.3	<10	16.6	410	0.7	9.2
343371	120	<1	2.7	<10	7.0	290	0.2	4.8
343372	510	<1	2.7	<10	10.5	580	0.2	4.5
*Rep 343298	20	<1	3.7	<10	12.9	380	0.7	6.5
*Rep 343306	40	<1	3.4	<10	5.3	50	1.1	4.3
*Rep 343320	170	<1	2.1	<10	5.5	410	0.6	4.9
*Rep 343337	490	<1	2.3	<10	18.5	1000	0.9	13.4
*Rep 343348	50	<1	2.2	<10	10.2	540	1.0	4.9
*Std MMISRM24	1380	<1	0.6	<10	15.3	60	0.1	8.5
*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 ppb	1 ppb	0.2 ppb	10 ppb	2 ppb
343287	0.5	71	5.8	2280	18
343288	1.1	36	5.1	230	23
343289	<0.5	55	14.4	1040	9
343290	1.5	165	12.3	550	32
343291	<0.5	854	61.2	390	8
343292	<0.5	341	22.9	1080	11
343293	<0.5	505	40.2	580	8
343294	<0.5	89	10.4	1110	11
343295	<0.5	84	5.4	2480	7
343296	<0.5	104	7.3	1700	11
343297	1.3	61	4.7	1190	16
343298	<0.5	116	7.0	410	5
343299	<0.5	208	12.0	730	8
343300	<0.5	98	8.7	770	9
343301	<0.5	62	5.2	4130	6
343302	<0.5	340	26.9	1500	10
343303	<0.5	186	14.9	310	8
343304	<0.5	152	12.7	1990	9
343305	<0.5	172	12.7	140	9
343306	<0.5	129	9.5	110	4
343307	<0.5	49	4.0	130	6
343308	<0.5	178	15.6	3260	7
343309	<0.5	82	6.1	690	7
343310	<0.5	65	4.9	490	3
343311	<0.5	42	2.9	210	6
343312	<0.5	224	19.1	140	14
343313	<0.5	60	4.6	750	7
343314	0.8	43	3.8	1680	12
343315	<0.5	207	14.0	310	12
343316	<0.5	70	5.2	1100	5
343317	<0.5	72	5.6	340	8
343318	0.8	118	9.5	230	29
343319	<0.5	78	6.7	1470	17
343320	<0.5	85	6.9	700	6
343321	<0.5	76	5.9	810	9
343322	0.5	661	48.6	720	23
343323	<0.5	98	8.0	160	14
343324	<0.5	255	19.6	2100	13
343325	<0.5	100	7.6	3070	8
343326	0.8	223	18.4	640	32

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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
343327	<0.5	308	22.0	540	18
343328	<0.5	29	2.4	1050	4
343329	<0.5	76	5.9	750	6
343330	<0.5	106	8.8	670	24
343331	<0.5	63	5.1	3050	4
343332	<0.5	75	7.5	140	2
343333	<0.5	110	9.1	910	17
343334	<0.5	89	7.7	1160	12
343335	<0.5	375	32.4	400	11
343336	<0.5	60	4.3	340	5
343337	<0.5	80	4.5	1500	11
343338	<0.5	99	9.1	1040	26
343339	<0.5	79	4.5	250	9
343340	<0.5	174	12.6	350	16
343341	<0.5	51	3.7	1110	3
343342	<0.5	69	4.5	50	13
343343	<0.5	89	7.2	90	5
343344	<0.5	213	15.9	4600	8
343345	<0.5	341	24.0	170	6
343346	<0.5	109	7.2	220	9
343347	<0.5	73	5.2	450	7
343348	<0.5	82	6.4	920	13
343349	<0.5	31	2.4	500	4
343350	<0.5	73	6.2	110	4
343351	<0.5	46	4.2	1130	8
343352	<0.5	119	8.7	870	6
343353	<0.5	91	6.4	60	6
343354	<0.5	115	9.0	2570	10
343355	<0.5	53	5.3	1310	8
343356	0.8	244	16.6	1320	18
343357	0.6	472	31.8	250	16
343358	<0.5	321	18.5	1120	8
343359	<0.5	153	10.2	760	9
343360	<0.5	80	5.7	4630	7
343361	0.5	145	10.4	460	16
343362	<0.5	356	26.0	1810	6
343363	<0.5	45	2.8	380	<2
343364	0.5	105	9.8	640	11
343365	<0.5	499	40.6	160	7
343366	<0.5	104	8.3	1970	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
343367	<0.5	160	10.0	520	4
343368	<0.5	221	15.3	1080	6
343369	<0.5	137	8.2	1250	5
343370	<0.5	165	10.3	710	11
343371	<0.5	105	7.0	460	6
343372	<0.5	112	7.3	3510	5
*Rep 343298	<0.5	120	6.8	450	5
*Rep 343306	<0.5	131	9.6	160	4
*Rep 343320	<0.5	86	7.0	570	6
*Rep 343337	<0.5	77	4.5	1780	12
*Rep 343348	<0.5	83	6.2	710	11
*Std MMISRM24	<0.5	22	0.8	120	24
*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 : VC184718
[Report File No.: 0000034672]

Date: March 26, 2019

To: Garry Smith
DEVON GEOLOGICAL SERVICES LTD
 3267 STONECREST ROAD RR#2
 WOODLAWN ON K0A 3M0

P.O. No.: TEST: 421 Samples (173-258)
Project No.: -
Samples: 86
Received: Dec 17, 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 : DISPOSE AFTER 30 DAYS
 PULP STORAGE : DISPOSE AFTER 90 DAYS

Comments:

Upon Client's request, this Certificate/Report has been issued in more than one original. Only the first original is a legally binding document and may be used for any legal purpose, including payment.

Certified By :



Gerald Chik
 Operations Manager/Chief 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
343373	4.4	185	<10	<0.1	1440	<0.5	88	33
343374	12.2	202	<10	<0.1	510	<0.5	28	13
343375	4.4	194	<10	0.2	240	<0.5	7	19
343376	3.3	218	<10	0.3	360	<0.5	13	11
343377	7.2	148	<10	<0.1	1280	<0.5	95	10
343378	5.4	181	<10	<0.1	520	<0.5	17	6
343379	1.1	245	<10	<0.1	240	<0.5	<2	16
343380	2.7	226	<10	0.1	1290	<0.5	33	74
343381	2.7	90	<10	<0.1	840	<0.5	36	3
343382	6.5	111	<10	<0.1	11200	<0.5	274	24
343383	2.7	92	10	<0.1	3990	0.6	199	9
343384	5.4	141	<10	<0.1	1130	<0.5	177	15
343385	2.1	129	<10	<0.1	1610	<0.5	28	3
343386	2.6	269	<10	<0.1	300	<0.5	8	27
343387	9.9	237	<10	<0.1	300	<0.5	9	15
343388	4.2	206	<10	<0.1	680	<0.5	85	22
343389	8.3	203	<10	<0.1	980	<0.5	72	28
343390	13.5	234	<10	<0.1	1650	<0.5	27	21
343391	7.5	202	<10	<0.1	430	<0.5	8	16
343392	3.2	198	<10	<0.1	290	<0.5	<2	27
343393	2.7	114	<10	<0.1	1210	<0.5	26	12
343394	13.7	199	<10	<0.1	420	<0.5	76	14
343395	5.8	235	10	<0.1	540	0.6	36	32
343396	8.7	229	<10	<0.1	1230	<0.5	16	11
343397	9.2	143	<10	<0.1	2440	0.8	216	7
343398	5.1	406	30	<0.1	4840	1.7	12	18
343399	2.7	228	10	<0.1	2010	0.5	171	22
343400	2.3	235	<10	<0.1	990	<0.5	43	52
343401	1.4	219	<10	<0.1	1030	0.7	46	41
343402	1.0	306	20	<0.1	770	1.1	10	18
343403	1.7	208	<10	<0.1	470	<0.5	7	31
343404	2.4	165	<10	<0.1	220	<0.5	<2	11
343405	6.1	220	<10	<0.1	790	<0.5	6	25
343406	5.6	259	<10	<0.1	400	<0.5	4	16
343407	1.4	245	<10	<0.1	1350	0.8	34	70
343408	1.6	228	10	<0.1	2550	0.8	29	87
343409	4.8	210	<10	<0.1	610	<0.5	46	29
343410	3.2	250	<10	<0.1	1090	<0.5	16	19
343411	5.2	252	<10	<0.1	620	<0.5	8	11
343412	9.0	228	<10	<0.1	220	<0.5	8	30

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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
343413	2.0	230	<10	<0.1	830	<0.5	35	38
343414	3.2	225	<10	<0.1	880	<0.5	28	40
343415	0.9	332	<10	<0.1	1290	<0.5	69	20
343416	0.9	244	<10	<0.1	1380	<0.5	22	29
343417	5.6	179	10	<0.1	430	<0.5	6	13
343418	20.0	173	<10	0.3	230	<0.5	44	13
343419	5.2	226	<10	<0.1	520	<0.5	25	24
343420	1.7	137	<10	<0.1	160	<0.5	<2	3
343421	3.1	228	<10	<0.1	750	<0.5	81	22
343422	0.8	239	<10	<0.1	580	0.6	9	30
343423	2.2	192	<10	<0.1	400	<0.5	12	32
343424	1.0	227	<10	<0.1	390	<0.5	11	37
343425	3.6	273	<10	<0.1	1590	0.8	13	30
343426	4.0	235	<10	<0.1	320	<0.5	6	38
343427	2.1	204	<10	<0.1	840	<0.5	38	26
343428	2.2	199	<10	<0.1	700	<0.5	45	24
343429	4.8	155	10	<0.1	1100	0.7	20	6
343430	2.3	142	70	<0.1	490	4.9	47	26
343431	2.1	97	10	<0.1	370	0.8	9	2
343432	11.3	97	<10	<0.1	240	<0.5	34	22
343433	2.3	241	<10	<0.1	400	<0.5	6	44
343434	6.1	236	<10	<0.1	270	<0.5	11	28
343435	4.9	191	<10	<0.1	270	<0.5	5	20
343436	4.5	263	20	<0.1	300	0.6	12	36
343437	16.3	181	<10	0.2	850	<0.5	52	13
343438	7.3	180	<10	<0.1	160	<0.5	7	18
343439	8.6	198	<10	<0.1	490	<0.5	21	31
343440	11.8	229	<10	0.2	630	0.9	34	54
343441	9.7	216	<10	0.1	320	<0.5	6	44
343442	3.2	172	<10	<0.1	240	<0.5	5	10
343443	4.6	146	<10	<0.1	1250	<0.5	172	25
343444	17.7	202	<10	0.1	2260	1.2	45	30
343445	9.5	218	<10	<0.1	1290	<0.5	7	63
343446	12.2	244	10	<0.1	510	<0.5	14	42
343447	7.1	190	<10	<0.1	380	<0.5	20	20
343448	3.7	153	<10	0.1	620	<0.5	5	4
343449	9.7	253	20	<0.1	2270	0.7	49	20
343450	5.5	204	<10	<0.1	470	<0.5	23	43
343451	20.7	132	<10	<0.1	380	<0.5	39	21
343452	28.2	89	<10	<0.1	520	<0.5	196	13

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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
343453	11.6	178	<10	<0.1	430	<0.5	28	22
343454	34.0	129	<10	<0.1	370	<0.5	67	27
343455	9.8	211	<10	<0.1	600	0.6	17	28
343456	17.2	203	<10	<0.1	260	<0.5	63	24
343457	4.0	198	<10	<0.1	630	<0.5	3	23
343458	16.4	190	<10	<0.1	330	<0.5	13	28
*Rep 343382	6.3	101	<10	<0.1	12000	<0.5	290	24
*Rep 343396	7.2	219	<10	<0.1	1230	<0.5	17	12
*Rep 343407	1.3	238	<10	<0.1	1550	0.7	37	67
*Rep 343428	2.0	191	<10	<0.1	730	<0.5	43	26
*Rep 343436	5.1	255	20	<0.1	330	0.6	9	33
*Std MMISRM24	21.4	40	<10	3.8	120	<0.5	65	6
*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 ppb	1 ppb	100 ppb	0.2 ppb	10 ppb	0.5 ppb	0.2 ppb	0.2 ppb
343373		90	16	<100	4.8	50	19.7	10.2	3.2
343374		151	38	<100	5.6	50	22.0	9.8	4.8
343375		231	42	<100	6.9	130	47.3	22.3	8.1
343376		223	10	<100	12.4	140	33.7	10.7	6.5
343377		111	55	<100	2.5	40	19.4	10.8	3.9
343378		669	29	<100	3.4	70	63.3	28.0	14.6
343379		18	54	<100	4.0	30	6.3	6.3	0.5
343380		132	19	<100	7.5	150	28.8	13.4	5.0
343381		63	457	<100	6.3	380	5.5	2.6	1.2
343382		79	117	<100	5.9	150	52.5	29.5	10.6
343383		515	115	<100	6.3	360	53.9	33.1	12.3
343384		326	186	<100	5.8	230	99.3	47.2	20.5
343385		60	363	<100	3.5	200	3.8	2.2	0.8
343386		61	17	<100	5.5	30	18.3	8.8	3.2
343387		149	15	<100	6.0	130	19.6	9.5	4.2
343388		57	16	<100	2.3	70	18.5	9.4	3.1
343389		98	16	<100	4.2	90	59.8	31.4	12.1
343390		337	47	<100	4.4	120	70.2	36.4	14.3
343391		83	26	<100	8.0	100	17.8	9.2	3.3
343392		97	41	<100	4.5	50	17.3	9.4	3.1
343393		34	175	<100	2.9	520	3.0	1.5	0.8
343394		160	22	<100	3.9	60	15.3	6.9	3.4
343395		59	74	<100	3.6	100	17.5	8.2	2.4
343396		250	38	<100	7.4	50	44.0	20.8	10.0
343397		133	68	<100	6.2	160	26.1	13.5	6.0
343398		566	131	200	8.7	590	46.7	24.0	9.2
343399		101	54	<100	1.2	80	15.6	7.4	3.2
343400		88	226	<100	7.9	380	21.4	11.6	2.2
343401		29	107	<100	13.6	150	9.5	5.4	1.5
343402		49	116	<100	7.5	90	6.4	5.8	0.8
343403		86	226	<100	5.4	110	22.6	13.1	3.7
343404		339	72	<100	9.1	60	55.3	27.1	7.8
343405		182	69	<100	9.5	160	27.7	13.2	6.5
343406		364	45	<100	7.5	60	27.1	11.8	5.5
343407		24	44	<100	1.2	90	13.2	8.2	1.6
343408		29	158	<100	1.7	280	14.7	11.2	1.2
343409		112	14	<100	13.9	80	33.3	15.0	5.7
343410		58	314	<100	7.6	110	18.0	8.1	2.4
343411		207	43	<100	6.4	40	33.7	16.9	5.4
343412		111	13	<100	6.2	60	24.4	12.4	4.5

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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
343413	301	61	<100	3.5	160	43.7	20.5	7.2
343414	62	118	<100	5.5	130	13.5	10.8	1.5
343415	7	247	<100	0.4	80	5.8	6.7	0.2
343416	433	97	<100	5.6	170	36.7	19.9	6.1
343417	328	255	<100	7.1	180	24.2	12.7	4.4
343418	661	17	<100	12.1	370	180	71.8	36.5
343419	52	11	<100	4.7	70	10.6	5.4	1.7
343420	44	46	<100	7.5	80	4.5	2.3	0.8
343421	75	96	<100	2.3	90	12.0	6.9	2.0
343422	131	96	<100	8.2	80	24.5	13.3	5.5
343423	177	66	<100	7.1	90	28.6	13.2	6.3
343424	63	40	<100	6.0	80	9.3	5.7	2.0
343425	14	338	<100	1.2	110	11.3	8.5	0.7
343426	96	35	<100	6.5	70	17.8	9.9	2.8
343427	273	42	<100	2.8	90	55.7	26.7	10.9
343428	89	35	<100	3.6	60	16.4	8.7	3.3
343429	152	132	<100	6.1	220	12.8	7.3	2.6
343430	150	29	<100	5.9	170	12.0	5.6	2.5
343431	52	37	<100	1.4	150	5.1	2.9	0.9
343432	168	16	<100	4.4	80	22.6	12.1	6.1
343433	113	36	<100	5.1	80	26.1	12.3	4.1
343434	128	37	<100	5.9	90	19.0	8.9	3.3
343435	276	34	<100	8.9	80	34.0	19.9	6.6
343436	271	101	<100	10.2	80	33.0	13.9	6.8
343437	1080	67	<100	6.6	330	48.0	23.8	15.6
343438	29	43	<100	11.4	140	8.6	4.3	1.6
343439	37	11	<100	12.2	330	8.3	3.5	1.6
343440	77	30	<100	9.9	390	14.4	7.8	2.8
343441	57	74	<100	15.6	280	10.8	6.6	2.0
343442	29	155	<100	20.3	170	2.8	2.0	0.6
343443	95	26	<100	11.4	120	8.9	4.2	2.5
343444	181	245	<100	5.9	380	18.4	8.9	6.6
343445	67	45	<100	25.3	250	13.6	7.4	2.7
343446	29	49	<100	4.8	320	9.9	6.3	1.6
343447	213	40	<100	9.5	180	19.9	9.0	4.6
343448	99	64	<100	5.5	940	11.0	4.7	2.5
343449	104	67	<100	3.8	100	14.0	7.8	3.4
343450	67	32	<100	13.8	110	9.2	4.7	1.9
343451	61	33	<100	10.2	340	7.4	3.9	2.0
343452	24	7	<100	3.2	140	2.9	1.6	0.9

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	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
343453	59	32	<100	14.5	200	11.2	5.7	2.5
343454	18	16	<100	21.0	440	6.3	4.0	1.1
343455	38	200	<100	11.1	270	8.5	5.0	1.5
343456	22	27	<100	9.5	190	3.7	1.8	0.9
343457	208	94	<100	6.9	260	18.8	8.5	4.4
343458	25	43	<100	8.6	250	3.9	1.9	0.8
*Rep 343382	84	143	<100	5.5	160	53.8	30.0	10.9
*Rep 343396	249	40	<100	7.5	50	41.8	19.3	9.2
*Rep 343407	17	52	<100	0.9	90	10.9	7.4	1.0
*Rep 343428	89	38	<100	4.1	60	17.3	8.5	3.5
*Rep 343436	251	91	<100	10.0	80	30.2	13.4	6.3
*Std MMISRM24	51	18	<100	9.5	250	4.0	1.5	1.4
*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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343373	40	12.4	14.7	<1	<0.1	15.4	26	7
343374	22	8.5	21.0	<1	<0.1	11.3	45	3
343375	23	6.5	38.4	<1	<0.1	9.7	65	2
343376	12	4.1	28.0	<1	<0.1	7.5	71	2
343377	25	4.8	17.3	<1	<0.1	5.1	36	2
343378	18	8.1	60.7	1	<0.1	4.2	157	<1
343379	34	7.7	2.6	<1	<0.1	11.2	8	6
343380	28	9.1	24.6	<1	<0.1	14.8	47	5
343381	265	5.5	5.7	<1	<0.1	14.2	28	4
343382	32	2.2	51.4	<1	<0.1	14.5	101	2
343383	128	12.9	56.1	<1	<0.1	15.3	165	10
343384	61	8.9	97.7	<1	<0.1	10.2	205	3
343385	314	12.7	3.2	<1	<0.1	21.5	17	8
343386	17	14.2	13.9	<1	<0.1	7.1	33	2
343387	24	10.2	18.7	<1	<0.1	9.8	45	3
343388	49	17.5	16.8	<1	0.1	7.4	32	5
343389	38	15.6	57.9	<1	<0.1	10.4	109	10
343390	62	16.0	63.9	<1	0.1	9.0	139	6
343391	34	14.8	13.8	<1	<0.1	7.7	27	4
343392	18	10.4	13.3	<1	<0.1	5.7	26	2
343393	283	15.5	2.9	<1	<0.1	9.8	18	6
343394	19	5.7	14.7	1	<0.1	7.5	42	2
343395	52	28.4	12.6	<1	0.2	15.8	21	10
343396	22	7.1	41.8	<1	<0.1	7.0	108	4
343397	137	25.4	27.2	<1	<0.1	7.0	75	28
343398	213	55.2	37.3	<1	0.4	12.0	118	54
343399	52	16.1	14.9	<1	<0.1	10.6	53	8
343400	47	10.1	9.9	1	<0.1	9.5	19	4
343401	82	17.7	6.8	<1	<0.1	23.8	13	12
343402	157	44.8	3.4	<1	0.4	9.7	17	31
343403	32	8.0	15.7	<1	<0.1	7.0	34	5
343404	15	6.6	34.3	<1	<0.1	6.7	61	2
343405	53	19.0	25.8	1	0.1	9.8	57	8
343406	31	10.4	22.1	1	<0.1	4.3	57	3
343407	68	23.2	7.8	<1	0.3	8.0	7	6
343408	140	25.8	5.9	<1	0.4	23.7	12	13
343409	28	9.7	27.9	1	<0.1	12.4	55	7
343410	34	7.8	11.2	<1	<0.1	13.1	16	4
343411	65	27.3	24.3	<1	<0.1	7.6	63	10
343412	23	11.4	19.7	1	<0.1	9.7	41	5

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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
343413	48	16.9	36.4	<1	<0.1	7.4	87	6
343414	58	14.0	6.7	<1	<0.1	6.2	14	5
343415	49	4.4	1.4	<1	0.1	3.2	3	7
343416	63	12.2	28.6	<1	0.2	7.3	84	8
343417	60	8.8	19.3	1	<0.1	11.6	58	6
343418	16	6.0	164	3	<0.1	11.6	339	1
343419	45	19.6	8.0	<1	0.2	8.1	17	14
343420	119	4.3	4.2	<1	<0.1	8.8	22	3
343421	77	27.3	9.2	<1	0.1	8.0	36	8
343422	69	21.6	21.9	<1	0.2	13.1	63	10
343423	23	6.2	28.3	<1	<0.1	6.6	66	4
343424	39	9.7	6.6	1	<0.1	8.2	27	3
343425	87	17.7	4.1	<1	0.3	13.5	6	12
343426	25	9.1	12.5	1	<0.1	16.0	29	5
343427	17	5.3	48.1	<1	<0.1	6.2	97	2
343428	28	8.5	13.9	<1	<0.1	9.1	35	5
343429	288	22.0	11.1	<1	<0.1	16.1	67	14
343430	141	32.0	12.2	1	0.3	23.8	64	4
343431	383	11.3	4.4	<1	<0.1	8.6	32	5
343432	23	8.2	23.7	<1	<0.1	4.0	52	2
343433	36	15.0	20.5	1	0.1	9.8	41	5
343434	21	7.0	13.9	1	<0.1	8.0	34	3
343435	19	8.2	29.3	1	<0.1	7.4	62	6
343436	60	24.2	31.3	2	0.3	14.5	101	8
343437	34	9.1	53.6	2	<0.1	8.1	183	3
343438	2	3.7	7.8	<1	<0.1	5.2	13	<1
343439	11	4.6	7.3	<1	<0.1	9.0	13	2
343440	57	16.8	11.5	2	<0.1	14.1	36	13
343441	62	18.7	8.2	<1	0.1	8.3	21	6
343442	46	3.8	2.2	<1	<0.1	10.1	14	6
343443	32	6.0	10.1	<1	<0.1	81.7	27	4
343444	109	33.5	23.1	<1	<0.1	8.3	73	18
343445	54	14.3	11.0	1	0.1	19.5	22	10
343446	67	8.7	7.4	1	0.1	6.5	14	5
343447	21	5.8	19.3	<1	<0.1	7.8	61	3
343448	117	5.6	9.5	<1	<0.1	4.9	40	3
343449	130	43.1	12.5	<1	0.3	7.5	47	17
343450	27	7.9	8.1	<1	<0.1	26.3	22	4
343451	18	5.6	7.8	<1	<0.1	7.8	27	3
343452	9	3.4	3.4	<1	<0.1	35.4	9	<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
343453	9	3.1	10.1	<1	<0.1	4.7	24	1
343454	10	7.8	5.5	<1	<0.1	5.5	13	<1
343455	43	8.6	6.8	<1	<0.1	8.2	18	3
343456	14	3.9	3.7	<1	<0.1	8.0	10	<1
343457	23	6.9	16.0	1	<0.1	5.0	48	3
343458	11	4.0	3.7	<1	<0.1	4.0	10	1
*Rep 343382	31	2.3	54.1	<1	<0.1	14.6	103	2
*Rep 343396	25	8.3	38.8	<1	<0.1	7.1	99	4
*Rep 343407	73	22.1	4.9	<1	0.3	7.9	5	5
*Rep 343428	28	8.3	14.6	<1	<0.1	9.2	35	5
*Rep 343436	64	25.8	27.9	2	0.3	13.6	96	11
*Std MMISRM24	13	3.5	5.7	3	<0.1	11.9	21	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 ppm	100 ppb	2 ppb	0.5 ppb	1 ppb	5 ppb	0.1 ppm	5 ppb
343373	5.3	3600	<2	3.7	40	80	1.1	259
343374	1.8	600	2	2.4	76	57	1.0	141
343375	1.2	500	<2	1.1	132	55	1.1	251
343376	2.5	800	<2	0.6	110	31	1.2	333
343377	3.2	1100	<2	1.2	55	38	0.4	88
343378	0.6	500	<2	1.5	249	34	0.7	81
343379	1.7	<100	<2	1.7	8	47	1.1	153
343380	5.5	3000	<2	2.1	80	119	1.5	395
343381	6.4	1400	2	1.5	27	111	2.0	9
343382	22.6	2800	<2	<0.5	151	61	0.3	72
343383	13.2	7900	5	3.8	237	98	1.2	332
343384	10.9	8400	<2	1.2	319	81	2.4	134
343385	9.6	2800	2	4.0	16	158	2.6	17
343386	3.4	400	<2	2.4	47	77	1.9	200
343387	1.3	1100	2	2.1	71	41	1.8	130
343388	12.3	1400	<2	3.2	46	74	1.6	322
343389	5.6	1700	<2	6.6	205	64	1.8	231
343390	2.1	700	3	7.0	235	58	1.3	277
343391	0.9	1000	<2	2.2	49	49	1.3	220
343392	<0.5	600	<2	1.4	48	55	1.2	177
343393	4.6	15100	5	4.2	17	153	4.4	16
343394	2.3	500	<2	1.4	53	44	1.1	94
343395	8.1	1600	2	2.0	34	133	3.2	438
343396	1.4	200	<2	2.7	173	43	1.0	101
343397	11.6	1100	3	9.2	96	102	0.9	126
343398	6.9	400	6	27.4	150	130	1.7	549
343399	15.5	1400	<2	2.8	57	91	1.1	344
343400	3.4	800	<2	2.2	27	145	1.6	295
343401	5.9	600	3	4.6	19	138	1.1	506
343402	4.8	200	3	19.4	14	74	1.5	255
343403	1.8	200	<2	2.4	56	156	0.6	301
343404	<0.5	300	2	0.7	117	70	0.4	305
343405	1.5	3800	3	4.3	90	92	1.5	238
343406	1.2	1200	2	3.2	90	71	2.0	203
343407	8.0	1500	<2	4.0	17	66	1.3	1700
343408	9.0	1400	<2	8.2	16	96	1.6	1040
343409	6.5	2900	<2	2.1	84	87	2.0	247
343410	6.6	900	<2	1.4	30	234	1.4	344
343411	3.0	2000	2	7.5	90	57	2.9	183
343412	1.6	1100	<2	1.7	69	85	2.4	109

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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
343413	7.1	6800	<2	2.6	128	80	1.9	428
343414	3.7	100	<2	3.1	21	96	1.7	268
343415	26.7	200	<2	<0.5	3	163	0.2	44
343416	4.1	800	<2	5.8	105	78	1.2	339
343417	1.4	5900	<2	2.9	69	44	0.9	86
343418	3.5	600	<2	1.3	523	22	0.8	100
343419	4.2	2400	<2	2.8	27	116	3.3	272
343420	0.8	2100	<2	0.7	20	33	1.5	16
343421	19.6	1100	<2	5.7	38	111	2.3	194
343422	3.0	900	2	7.1	94	68	2.9	501
343423	3.5	400	<2	1.1	126	116	1.1	187
343424	1.8	500	<2	2.0	33	43	1.6	167
343425	7.9	2500	<2	4.9	8	66	1.2	862
343426	1.9	1100	<2	2.0	43	54	2.0	242
343427	2.8	100	<2	1.6	170	37	0.6	238
343428	4.9	400	<2	2.7	48	78	0.8	242
343429	6.1	1500	3	9.1	59	112	3.4	54
343430	6.7	4800	8	7.9	64	72	15.6	887
343431	3.0	<100	4	9.5	24	70	4.3	20
343432	1.1	200	2	2.4	98	14	0.3	175
343433	3.0	1200	<2	1.5	78	86	2.1	584
343434	2.0	1100	<2	1.6	54	44	1.2	293
343435	0.8	5500	<2	1.8	113	77	1.4	114
343436	2.9	1700	3	1.9	145	90	7.1	575
343437	1.8	1300	3	1.3	259	33	1.8	132
343438	0.6	100	<2	<0.5	28	88	0.6	146
343439	2.0	1500	<2	<0.5	24	113	1.5	147
343440	5.9	4500	3	1.7	46	155	4.8	426
343441	2.6	300	<2	3.0	35	104	2.2	416
343442	3.6	400	<2	1.2	14	60	1.5	67
343443	22.9	3100	<2	1.1	45	115	0.7	245
343444	15.4	900	4	8.1	117	229	2.3	222
343445	4.6	3900	2	1.9	37	249	4.3	457
343446	2.7	200	<2	<0.5	20	103	1.9	225
343447	1.4	700	3	0.7	83	86	1.2	151
343448	0.8	600	3	2.2	38	77	0.5	39
343449	9.3	1800	5	13.9	52	81	3.0	374
343450	3.3	1100	2	1.3	33	112	1.4	951
343451	1.9	1400	<2	<0.5	33	64	0.5	369
343452	3.8	1700	<2	<0.5	13	50	0.2	43

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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
343453	2.0	500	<2	<0.5	40	88	0.8	112
343454	3.2	2100	<2	<0.5	18	86	0.4	85
343455	2.2	2900	<2	0.6	24	172	1.4	331
343456	3.1	1200	3	<0.5	16	155	1.4	126
343457	0.8	400	3	1.2	69	74	1.0	160
343458	1.2	800	<2	<0.5	15	100	0.7	104
*Rep 343382	22.9	3500	<2	<0.5	157	61	0.2	81
*Rep 343396	1.6	500	<2	3.0	159	43	1.0	126
*Rep 343407	8.4	1100	<2	3.5	10	63	1.2	1420
*Rep 343428	5.2	500	<2	2.5	49	79	0.8	295
*Rep 343436	3.1	1700	3	1.4	134	88	7.0	537
*Std MMISRM24	12.4	300	23	<0.5	30	124	0.5	254
*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
343373	<1	8.5	<0.1	119	0.8	27	12	1
343374	<1	16.3	<0.1	119	0.7	17	18	<1
343375	<1	29.7	<0.1	130	<0.5	23	33	<1
343376	<1	25.7	<0.1	113	<0.5	20	26	<1
343377	<1	12.1	<0.1	66	<0.5	17	15	<1
343378	<1	57.3	<0.1	99	0.7	45	61	<1
343379	<1	2.0	<0.1	149	<0.5	23	2	<1
343380	<1	16.9	<0.1	146	<0.5	24	19	<1
343381	<1	7.0	<0.1	156	1.0	12	5	<1
343382	<1	32.1	<0.1	189	<0.5	20	39	<1
343383	<1	55.3	<0.1	148	0.8	28	52	1
343384	<1	71.8	<0.1	209	<0.5	35	82	<1
343385	<1	4.1	<0.1	155	0.8	18	3	<1
343386	<1	10.8	<0.1	85	<0.5	17	11	<1
343387	<1	15.7	<0.1	140	<0.5	23	16	<1
343388	<1	9.8	<0.1	122	<0.5	19	12	<1
343389	<1	42.4	<0.1	122	<0.5	36	52	1
343390	<1	53.0	<0.1	113	0.6	47	60	1
343391	<1	10.3	<0.1	179	<0.5	25	12	<1
343392	<1	10.6	<0.1	66	<0.5	20	11	<1
343393	<1	4.3	<0.1	115	1.0	20	3	1
343394	<1	12.0	<0.1	181	<0.5	14	13	<1
343395	<1	7.5	<0.1	125	0.8	25	10	2
343396	<1	39.9	<0.1	94	<0.5	33	38	<1
343397	<1	21.4	<0.1	156	0.6	39	23	2
343398	<1	34.4	<0.1	144	0.9	117	35	6
343399	<1	13.5	<0.1	102	<0.5	17	13	1
343400	<1	5.7	<0.1	139	<0.5	32	8	<1
343401	<1	3.9	<0.1	304	<0.5	33	5	1
343402	<1	3.4	<0.1	104	0.8	51	3	6
343403	<1	12.3	<0.1	124	<0.5	24	13	<1
343404	<1	26.6	<0.1	146	<0.5	37	30	<1
343405	<1	19.7	<0.1	208	<0.5	47	22	1
343406	<1	21.0	<0.1	85	<0.5	28	21	<1
343407	<1	3.1	<0.1	150	<0.5	20	5	2
343408	<1	3.3	<0.1	45	<0.5	26	4	2
343409	<1	18.2	<0.1	304	<0.5	27	22	<1
343410	<1	6.3	<0.1	199	<0.5	17	9	<1
343411	<1	21.4	<0.1	147	<0.5	38	21	2
343412	<1	15.3	<0.1	181	<0.5	24	17	<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
343413	<1	29.4	<0.1	104	<0.5	34	33	1
343414	<1	4.7	<0.1	104	<0.5	16	6	1
343415	<1	0.7	<0.1	49	<0.5	21	<1	<1
343416	<1	24.4	<0.1	114	<0.5	45	24	1
343417	<1	17.6	<0.1	202	<0.5	28	18	<1
343418	<1	124	<0.1	295	<0.5	77	143	<1
343419	<1	5.4	<0.1	145	<0.5	21	7	<1
343420	<1	5.4	<0.1	76	<0.5	11	4	<1
343421	<1	8.6	<0.1	181	<0.5	21	8	2
343422	<1	21.8	<0.1	189	<0.5	31	22	3
343423	<1	27.1	<0.1	116	<0.5	13	27	<1
343424	<1	8.0	<0.1	104	<0.5	12	7	<1
343425	<1	1.6	<0.1	90	<0.5	28	2	1
343426	<1	9.9	<0.1	189	<0.5	19	10	<1
343427	<1	36.4	<0.1	71	<0.5	23	43	<1
343428	<1	10.7	<0.1	166	<0.5	17	12	<1
343429	<1	16.0	<0.1	172	1.0	26	11	3
343430	<1	16.6	<0.1	205	2.9	35	13	13
343431	<1	6.4	<0.1	68	1.9	21	5	5
343432	<1	21.1	<0.1	153	<0.5	26	24	<1
343433	<1	17.0	<0.1	108	<0.5	21	19	1
343434	<1	12.2	<0.1	131	<0.5	21	13	<1
343435	<1	25.3	<0.1	171	<0.5	28	27	<1
343436	<1	35.1	<0.1	173	1.0	34	32	<1
343437	<1	63.5	<0.1	200	<0.5	72	57	<1
343438	<1	6.0	<0.1	79	<0.5	9	7	<1
343439	<1	5.1	<0.1	104	<0.5	13	6	<1
343440	<1	10.6	<0.1	108	0.7	66	11	1
343441	<1	7.8	<0.1	121	<0.5	26	8	1
343442	<1	3.6	<0.1	116	<0.5	7	2	<1
343443	<1	9.2	<0.1	417	<0.5	13	10	<1
343444	<1	25.5	<0.1	196	<0.5	58	24	3
343445	<1	7.6	<0.1	212	<0.5	29	9	1
343446	<1	4.5	<0.1	41	<0.5	34	6	<1
343447	<1	19.3	<0.1	142	<0.5	21	18	<1
343448	<1	9.9	<0.1	95	<0.5	25	9	<1
343449	<1	12.1	<0.1	126	<0.5	38	12	4
343450	<1	7.2	<0.1	310	<0.5	16	7	<1
343451	<1	7.4	<0.1	98	<0.5	21	7	<1
343452	<1	2.6	<0.1	216	<0.5	9	3	<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
343453	<1	8.5	<0.1	83	<0.5	12	9	<1
343454	<1	3.7	<0.1	146	<0.5	12	5	<1
343455	<1	5.1	<0.1	132	<0.5	26	6	<1
343456	<1	3.3	<0.1	155	<0.5	11	4	<1
343457	<1	16.6	<0.1	123	<0.5	31	16	<1
343458	<1	3.2	<0.1	104	<0.5	9	3	<1
*Rep 343382	<1	33.2	<0.1	184	<0.5	21	42	<1
*Rep 343396	<1	36.7	<0.1	98	<0.5	31	36	<1
*Rep 343407	<1	1.9	<0.1	151	<0.5	18	3	1
*Rep 343428	<1	10.6	<0.1	174	<0.5	16	12	<1
*Rep 343436	<1	31.9	<0.1	165	0.9	34	29	1
*Std MMISRM24	6	7.2	2.7	127	<0.5	7	6	<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
343373	270	<1	2.9	<10	17.6	1400	0.4	13.6
343374	70	<1	3.5	<10	11.4	740	0.8	9.8
343375	30	<1	7.2	<10	13.4	320	0.6	14.4
343376	40	<1	5.5	<10	21.4	280	1.0	19.4
343377	250	<1	2.8	<10	5.6	340	0.5	20.1
343378	20	<1	10.4	<10	43.0	370	0.6	25.7
343379	20	<1	0.5	<10	4.7	590	0.3	3.2
343380	170	<1	4.3	<10	20.8	790	0.7	11.6
343381	230	<1	0.8	<10	14.2	600	1.1	11.5
343382	1340	<1	8.2	<10	7.0	300	0.3	19.8
343383	600	<1	8.6	<10	11.7	1200	0.7	23.1
343384	510	<1	16.2	<10	20.2	820	1.0	23.4
343385	180	<1	0.5	<10	15.3	1720	0.7	4.1
343386	50	<1	2.7	<10	6.3	1030	0.3	3.3
343387	30	<1	3.2	<10	17.0	730	0.4	9.4
343388	280	<1	2.8	<10	8.6	1100	0.4	3.1
343389	220	<1	9.1	<10	18.4	1830	0.6	12.4
343390	130	<1	11.1	<10	42.2	1820	0.8	19.2
343391	20	<1	2.5	<10	10.9	700	0.8	5.8
343392	<10	<1	2.4	<10	11.1	400	0.5	7.7
343393	100	<1	0.4	<10	12.2	1760	0.8	9.9
343394	140	<1	2.5	<10	16.7	490	0.6	7.9
343395	120	<1	2.4	<10	18.1	1990	0.5	4.4
343396	50	<1	7.1	<10	14.5	750	0.7	8.7
343397	390	<1	4.1	<10	20.8	4280	0.5	16.5
343398	100	1	7.0	<10	91.4	7490	0.8	20.4
343399	610	<1	2.3	<10	16.5	2130	0.3	7.2
343400	260	<1	2.6	<10	15.2	930	0.5	10.0
343401	370	<1	1.2	<10	6.5	2440	0.5	3.5
343402	70	<1	0.7	<10	16.6	5780	0.9	5.8
343403	60	<1	3.1	<10	7.6	820	0.4	3.8
343404	<10	<1	7.9	<10	26.1	260	0.6	24.7
343405	20	<1	4.2	<10	22.2	1600	0.7	8.7
343406	<10	<1	4.2	<10	33.6	890	0.5	13.8
343407	160	<1	1.7	<10	8.4	1520	0.5	2.5
343408	190	<1	1.6	<10	12.6	3220	0.3	4.2
343409	130	<1	5.0	<10	15.5	1190	0.9	6.5
343410	60	<1	2.5	<10	7.8	1060	0.9	4.7
343411	20	<1	4.7	<10	24.7	3560	0.7	10.0
343412	30	<1	3.5	<10	9.7	610	0.4	5.0

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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 ppb	1 ppb	0.1 ppb	10 ppb	0.5 ppb	10 ppb	0.1 ppb	0.5 ppb
343413	130	<1	6.6	<10	45.6	2430	0.8	20.5
343414	210	<1	1.5	<10	11.4	1060	0.6	3.9
343415	550	<1	0.4	<10	3.8	450	0.5	2.7
343416	140	<1	5.4	<10	44.8	1370	0.4	11.9
343417	20	<1	3.7	<10	25.1	900	1.0	19.0
343418	50	<1	29.0	<10	66.3	400	1.5	77.2
343419	60	<1	1.5	<10	15.5	1240	0.5	3.1
343420	<10	<1	0.6	<10	21.1	470	0.4	9.9
343421	290	<1	1.6	<10	12.5	3560	0.7	3.2
343422	60	<1	3.7	<10	17.1	2510	1.0	8.3
343423	50	<1	4.6	<10	13.3	520	0.8	8.2
343424	70	<1	1.2	<10	8.0	730	0.4	3.9
343425	120	<1	1.1	<10	11.0	1840	0.8	2.5
343426	20	<1	2.6	<10	11.2	600	0.5	7.4
343427	160	<1	8.7	<10	18.1	410	0.4	18.0
343428	180	<1	2.5	<10	7.0	800	0.5	3.0
343429	90	<1	1.9	<10	24.4	3360	0.9	6.9
343430	70	<1	1.9	<10	34.8	7810	0.9	11.1
343431	40	<1	0.7	<10	19.3	6200	0.3	6.9
343432	80	<1	3.6	<10	13.7	840	0.4	5.7
343433	30	<1	3.8	<10	22.7	1060	0.6	5.2
343434	40	<1	2.8	<10	21.4	450	0.5	10.4
343435	<10	<1	5.1	<10	30.5	540	0.7	17.4
343436	30	<1	5.4	<10	77.7	1540	1.0	14.9
343437	60	<1	8.3	<10	46.2	530	1.1	26.7
343438	30	<1	1.3	<10	1.3	40	1.3	2.2
343439	80	<1	1.2	<10	4.6	200	1.0	2.7
343440	70	<1	2.0	<10	9.9	1450	1.7	2.8
343441	50	<1	1.4	<10	6.2	1170	1.5	3.5
343442	40	<1	0.3	<10	4.7	670	1.3	3.4
343443	420	<1	1.5	<10	7.6	930	1.7	3.2
343444	260	<1	3.0	<10	19.2	5180	1.6	7.0
343445	60	<1	1.9	<10	9.5	840	1.6	2.7
343446	70	<1	1.2	<10	2.8	700	0.8	1.4
343447	60	<1	3.1	<10	19.8	290	1.0	7.9
343448	40	<1	1.7	<10	14.0	740	0.7	9.7
343449	220	<1	2.0	<10	10.4	4550	1.0	3.2
343450	90	<1	1.3	<10	7.5	520	1.6	2.4
343451	40	<1	1.1	<10	6.5	300	1.2	4.1
343452	380	<1	0.4	<10	1.7	50	0.9	2.6

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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
343453	70	<1	1.6	<10	4.7	130	1.0	3.5
343454	110	<1	0.8	<10	1.7	40	1.9	0.8
343455	60	<1	1.0	<10	4.8	340	1.4	2.4
343456	90	<1	0.5	<10	2.5	70	0.7	2.2
343457	10	<1	2.7	<10	32.2	560	0.6	9.4
343458	40	<1	0.6	<10	1.8	240	0.7	1.0
*Rep 343382	1380	<1	8.3	<10	6.9	290	0.3	21.5
*Rep 343396	50	<1	6.7	<10	15.0	870	0.7	8.4
*Rep 343407	180	<1	1.1	<10	7.0	1380	0.5	2.1
*Rep 343428	200	<1	2.5	<10	7.0	770	0.6	3.2
*Rep 343436	30	<1	5.0	<10	73.8	1810	1.0	14.2
*Std MMISRM24	1450	<1	0.7	<10	17.9	70	0.2	9.7
*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
343373	<0.5	97	7.7	2170	13
343374	<0.5	98	6.8	250	9
343375	<0.5	200	15.0	420	7
343376	<0.5	101	6.4	130	7
343377	<0.5	114	8.5	370	6
343378	<0.5	252	20.6	200	27
343379	<0.5	32	6.9	1870	7
343380	<0.5	136	9.3	3610	11
343381	<0.5	21	2.1	160	8
343382	<0.5	347	20.6	1070	4
343383	0.8	294	31.9	340	9
343384	<0.5	449	31.7	600	6
343385	0.6	17	1.7	390	11
343386	<0.5	82	5.4	3090	8
343387	<0.5	89	6.1	270	11
343388	<0.5	119	6.7	2670	9
343389	0.5	305	22.2	1390	18
343390	1.1	322	27.5	950	28
343391	<0.5	84	7.3	180	10
343392	<0.5	84	7.4	920	9
343393	1.5	14	1.3	630	11
343394	<0.5	63	4.4	340	11
343395	<0.5	70	5.3	1870	13
343396	<0.5	215	14.3	170	12
343397	1.0	122	11.7	120	20
343398	3.3	207	19.9	850	65
343399	<0.5	77	4.8	960	9
343400	<0.5	83	9.0	1670	13
343401	0.6	46	4.1	1200	12
343402	2.1	26	8.3	1180	27
343403	<0.5	116	9.8	1500	9
343404	<0.5	192	20.4	400	13
343405	0.5	115	10.4	1290	22
343406	1.0	96	9.2	810	19
343407	<0.5	67	6.3	3120	9
343408	1.1	81	10.0	2860	12
343409	<0.5	162	9.4	1120	10
343410	<0.5	70	5.2	2340	5
343411	1.4	158	12.0	260	19
343412	<0.5	122	9.2	1140	10

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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
343413	<0.5	184	12.9	2760	12
343414	<0.5	66	8.7	5350	8
343415	<0.5	30	6.9	900	<2
343416	0.5	180	14.8	390	27
343417	<0.5	92	10.0	120	17
343418	0.5	604	50.2	80	26
343419	<0.5	48	3.9	4880	13
343420	<0.5	16	1.8	240	7
343421	<0.5	59	5.4	2630	11
343422	1.0	115	10.5	2040	19
343423	<0.5	135	9.2	4660	5
343424	<0.5	40	4.2	4100	8
343425	<0.5	66	7.4	3260	12
343426	<0.5	87	8.2	2580	11
343427	<0.5	249	19.2	350	11
343428	<0.5	82	6.1	260	8
343429	1.0	55	6.3	430	21
343430	2.0	47	4.2	870	20
343431	0.7	24	2.6	190	18
343432	<0.5	115	9.6	260	8
343433	<0.5	103	8.8	4110	7
343434	<0.5	75	6.5	1570	14
343435	<0.5	161	16.1	1240	16
343436	<0.5	118	8.7	1470	13
343437	<0.5	188	22.6	250	23
343438	<0.5	39	3.0	270	<2
343439	<0.5	33	2.4	1940	5
343440	<0.5	67	5.8	3160	19
343441	0.5	53	5.5	3200	11
343442	0.8	12	1.5	730	4
343443	2.2	40	2.9	890	6
343444	1.1	90	6.8	2180	19
343445	<0.5	64	5.8	6650	14
343446	<0.5	50	5.0	1270	8
343447	<0.5	87	6.5	400	10
343448	<0.5	37	3.7	160	15
343449	1.4	67	5.9	570	20
343450	<0.5	44	3.5	2620	8
343451	<0.5	38	2.7	460	7
343452	<0.5	14	1.7	210	<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
343453	<0.5	54	3.9	340	4
343454	<0.5	37	3.8	360	<2
343455	<0.5	46	4.1	1430	9
343456	<0.5	18	1.4	400	5
343457	<0.5	70	7.1	1370	22
343458	<0.5	20	1.3	480	3
*Rep 343382	<0.5	353	21.0	1140	4
*Rep 343396	<0.5	191	13.0	210	12
*Rep 343407	<0.5	55	6.0	2800	7
*Rep 343428	<0.5	86	6.1	260	8
*Rep 343436	<0.5	110	8.7	1440	13
*Std MMISRM24	<0.5	24	1.0	140	28
*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 : VC184719
[Report File No.: 000034673]

Date: March 26, 2019

To: Garry Smith
DEVON GEOLOGICAL SERVICES LTD
3267 STONECREST ROAD RR#2
WOODLAWN ON K0A 3M0

P.O. No.: TEST: 421 Samples (259-344)
Project No.: -
Samples: 86
Received: Dec 17, 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

Comments:

Upon Client's request, this Certificate/Report has been issued in more than one original. Only the first original is a legally binding document and may be used for any legal purpose, including payment.

Certified By :

Gerald Chik
Operations Manager/Chief 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
343459	4.3	188	<10	<0.1	810	1.3	34	44
343460	17.4	120	<10	<0.1	1390	<0.5	168	87
343461	24.1	145	<10	<0.1	270	<0.5	158	13
343462	11.0	152	<10	<0.1	1850	<0.5	127	18
343463	4.0	113	<10	<0.1	1390	<0.5	227	81
343464	16.0	193	<10	0.3	660	<0.5	57	25
343465	8.8	216	<10	<0.1	190	<0.5	23	28
343466	3.1	226	10	<0.1	1010	0.5	16	39
343467	12.4	50	<10	0.2	2120	<0.5	385	8
343468	<0.5	205	<10	<0.1	120	<0.5	4	16
343469	0.9	248	30	<0.1	610	2.0	26	21
343470	7.5	183	<10	0.1	3020	<0.5	35	12
343471	3.0	143	<10	<0.1	1060	<0.5	69	7
343472	10.1	13	<10	0.2	3550	<0.5	626	10
343473	5.2	88	<10	<0.1	1820	<0.5	279	28
343474	4.0	172	<10	<0.1	1530	<0.5	65	34
343475	32.8	117	<10	0.3	1040	<0.5	246	19
343476	9.0	200	<10	<0.1	740	<0.5	33	72
343477	6.8	156	<10	<0.1	670	0.5	61	24
343478	14.1	143	<10	<0.1	770	<0.5	121	16
343479	3.7	175	<10	<0.1	700	<0.5	61	34
343480	3.4	185	<10	<0.1	520	<0.5	27	47
343481	23.4	169	<10	<0.1	240	<0.5	23	18
343482	5.7	221	<10	<0.1	220	<0.5	5	24
343483	2.5	176	<10	<0.1	170	<0.5	4	8
343484	17.5	184	<10	0.2	1910	<0.5	21	16
343485	4.9	130	<10	<0.1	620	<0.5	152	42
343486	7.0	75	<10	<0.1	1290	<0.5	384	32
343487	1.6	182	<10	<0.1	1060	0.6	33	51
343488	1.6	198	20	<0.1	1370	2.6	38	23
343489	3.0	157	<10	<0.1	630	<0.5	28	21
343490	0.9	171	<10	0.1	80	<0.5	2	24
343491	1.2	252	<10	<0.1	270	<0.5	9	54
343492	1.7	217	<10	<0.1	340	<0.5	10	50
343493	3.7	170	<10	<0.1	640	<0.5	39	4
343494	1.1	230	<10	<0.1	490	0.6	5	25
343495	1.1	217	<10	<0.1	540	<0.5	13	27
343496	1.7	275	<10	<0.1	600	0.5	15	26
343497	2.3	261	<10	<0.1	520	<0.5	13	52
343498	2.4	289	<10	<0.1	200	0.5	6	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
343499	3.5	147	<10	<0.1	140	<0.5	4	17
343500	1.5	193	<10	<0.1	590	<0.5	206	26
343501	12.0	39	<10	0.2	1020	<0.5	592	27
343502	10.1	180	<10	<0.1	170	<0.5	12	19
343503	1.9	218	<10	0.1	450	<0.5	5	25
343504	1.8	219	<10	<0.1	220	<0.5	5	24
343505	16.4	330	20	<0.1	530	1.2	6	24
343506	6.9	180	<10	0.2	6540	0.5	157	20
343507	4.4	221	10	<0.1	1590	0.7	116	26
343508	14.7	203	<10	<0.1	970	<0.5	103	52
343509	18.7	217	<10	<0.1	970	<0.5	72	29
343510	10.4	109	<10	<0.1	820	<0.5	218	50
343511	5.3	179	<10	<0.1	340	<0.5	24	36
343512	11.4	256	10	<0.1	1490	0.7	74	22
343513	7.3	243	<10	<0.1	1410	<0.5	39	38
343514	6.8	186	<10	<0.1	1410	0.9	186	80
343515	13.8	29	<10	<0.1	7980	<0.5	560	39
343516	4.9	134	<10	<0.1	440	<0.5	102	15
343517	6.6	155	<10	<0.1	820	<0.5	70	24
343518	9.5	214	<10	<0.1	490	<0.5	19	33
343519	22.5	213	<10	0.4	620	<0.5	39	27
343520	8.9	235	<10	<0.1	240	<0.5	4	10
343521	30.1	62	<10	<0.1	4050	<0.5	352	10
343522	8.4	200	<10	<0.1	1540	<0.5	128	31
343523	8.2	194	<10	<0.1	200	<0.5	7	18
343524	8.3	147	<10	<0.1	250	<0.5	10	41
343525	14.2	202	<10	<0.1	1000	<0.5	75	63
343526	2.7	265	10	<0.1	700	0.9	18	47
343527	8.5	244	10	<0.1	1410	<0.5	8	31
343528	2.1	228	<10	<0.1	720	<0.5	76	72
343529	4.1	227	<10	<0.1	130	<0.5	9	36
343530	10.4	249	<10	<0.1	560	<0.5	20	24
343531	26.2	144	<10	<0.1	630	<0.5	203	34
343532	13.6	115	<10	<0.1	600	<0.5	276	19
343533	18.1	188	<10	<0.1	1420	<0.5	71	56
343534	17.7	209	<10	<0.1	970	<0.5	26	75
343535	11.3	151	<10	<0.1	1420	<0.5	168	44
343536	2.4	173	<10	<0.1	320	<0.5	4	15
343537	1.4	86	<10	<0.1	50	<0.5	<2	10
343538	0.7	184	<10	<0.1	160	<0.5	4	32

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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
343539	1.0	195	<10	<0.1	300	<0.5	6	55
343540	0.7	157	<10	<0.1	90	<0.5	<2	5
343541	1.8	132	<10	<0.1	130	<0.5	<2	14
343542	1.3	221	<10	<0.1	350	<0.5	<2	34
343543	5.3	209	<10	<0.1	370	<0.5	17	44
343544	1.4	128	<10	<0.1	130	<0.5	<2	12
*Rep 343461	24.3	139	<10	0.1	290	<0.5	157	14
*Rep 343483	2.6	171	<10	<0.1	180	<0.5	6	10
*Rep 343487	2.0	173	<10	<0.1	1100	0.7	34	52
*Rep 343503	2.1	219	<10	0.1	440	<0.5	4	22
*Rep 343538	0.9	187	<10	<0.1	160	<0.5	3	29
*Std MMISRM24	19.3	27	<10	2.9	110	<0.5	54	5
*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
*Std MMISRM24	17.4	30	<10	3.1	130	<0.5	53	5

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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
343459	66	43	<100	8.6	300	15.4	8.9	2.3
343460	14	10	<100	8.3	180	3.0	1.8	0.5
343461	43	33	<100	11.2	260	5.5	2.7	1.6
343462	112	18	<100	8.9	220	25.2	14.6	5.9
343463	25	18	<100	8.7	220	4.5	2.6	0.8
343464	234	28	100	18.4	170	8.8	3.6	4.8
343465	166	28	<100	18.5	280	12.1	5.5	4.0
343466	478	59	<100	8.6	180	22.4	11.5	4.6
343467	32	17	<100	4.8	120	3.2	1.5	1.1
343468	15	33	<100	4.6	90	4.3	4.7	0.6
343469	62	46	<100	8.3	90	6.1	3.6	1.1
343470	933	69	<100	2.5	240	120	52.3	26.5
343471	688	87	<100	9.1	160	78.2	37.9	16.7
343472	151	138	<100	1.1	410	15.7	7.9	4.2
343473	58	6	<100	25.4	60	10.2	5.8	2.8
343474	255	17	<100	11.1	120	37.7	19.3	7.3
343475	9	8	<100	11.7	410	1.4	0.8	0.3
343476	49	26	<100	8.0	320	10.2	5.6	2.3
343477	705	41	<100	5.8	470	46.1	23.1	10.7
343478	62	22	<100	10.3	250	6.4	3.3	1.7
343479	217	19	<100	10.5	190	27.8	11.8	5.6
343480	98	135	<100	18.3	100	19.6	11.1	4.3
343481	72	37	<100	14.6	180	9.2	4.5	1.8
343482	63	27	<100	13.6	260	9.0	4.7	1.8
343483	70	71	<100	7.8	690	8.1	4.0	1.7
343484	827	43	<100	9.1	860	62.9	25.4	17.9
343485	35	2	<100	16.7	40	3.7	2.4	0.7
343486	54	3	<100	11.2	60	7.5	4.4	1.8
343487	227	58	<100	3.9	160	62.0	33.3	9.7
343488	144	59	<100	2.8	110	12.6	7.0	3.0
343489	78	22	<100	3.6	70	12.3	6.4	2.4
343490	40	42	<100	9.6	90	15.2	8.9	1.8
343491	40	57	<100	1.3	80	14.7	8.6	2.0
343492	391	514	<100	10.4	140	95.6	53.7	12.0
343493	475	26	<100	6.1	90	58.0	22.7	15.8
343494	77	57	<100	4.0	90	13.4	9.7	1.9
343495	19	70	<100	3.3	60	8.3	6.2	0.8
343496	40	166	<100	2.5	140	17.0	12.9	2.1
343497	25	36	<100	7.3	100	5.7	2.9	0.7
343498	135	30	<100	3.7	120	15.3	7.9	3.2

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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
343499	130	20	<100	5.0	80	17.2	9.6	4.2
343500	43	35	<100	0.8	60	9.5	6.2	1.4
343501	8	8	<100	2.8	20	6.0	6.5	0.7
343502	145	103	<100	8.6	610	14.0	7.6	3.5
343503	86	74	<100	11.0	530	16.2	9.8	2.8
343504	7	177	<100	5.2	210	3.0	3.4	0.3
343505	69	72	200	14.0	670	11.1	7.4	2.5
343506	218	79	<100	8.2	410	22.0	11.0	7.0
343507	58	95	100	12.7	220	7.9	4.4	1.9
343508	47	57	<100	30.7	310	7.7	3.8	1.6
343509	495	43	<100	7.8	140	29.2	14.7	6.6
343510	37	35	<100	7.5	110	4.2	2.5	1.0
343511	73	13	<100	20.8	390	12.7	5.9	3.1
343512	129	50	<100	8.0	170	11.4	6.3	2.8
343513	70	302	<100	6.9	370	13.7	9.0	2.2
343514	89	133	<100	37.1	340	16.8	9.0	4.0
343515	17	42	<100	0.5	110	11.1	6.1	4.0
343516	34	229	<100	13.1	580	6.0	3.5	1.3
343517	102	50	<100	6.0	210	12.7	6.8	2.6
343518	93	46	<100	36.5	600	20.2	11.4	4.6
343519	118	64	<100	11.8	490	11.4	5.0	2.2
343520	168	24	<100	19.2	150	13.2	5.8	3.6
343521	29	12	<100	18.9	560	90.3	46.4	38.3
343522	37	102	<100	12.0	250	9.0	4.6	2.3
343523	163	27	<100	14.0	350	26.0	15.2	8.1
343524	39	29	<100	8.0	200	6.6	3.3	1.2
343525	15	20	<100	24.0	360	6.2	3.9	1.1
343526	54	78	<100	12.4	300	12.2	6.6	2.2
343527	83	97	<100	6.3	130	10.5	5.9	2.4
343528	19	91	<100	20.0	510	5.9	3.4	0.8
343529	41	88	<100	11.1	640	10.5	6.0	1.9
343530	176	136	<100	27.6	410	16.2	7.5	3.5
343531	22	25	<100	12.4	80	3.6	1.8	0.9
343532	16	9	<100	10.8	100	4.2	2.2	1.0
343533	93	54	<100	19.2	330	24.5	12.9	5.5
343534	126	103	<100	7.6	460	16.1	7.9	4.6
343535	118	62	<100	21.2	290	9.5	4.6	3.3
343536	79	174	<100	15.7	110	8.6	5.3	2.0
343537	172	6	<100	8.3	130	25.6	14.1	5.1
343538	189	14	<100	4.9	40	27.1	12.3	6.9

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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
343539	26	7	<100	5.8	70	7.2	3.5	1.2
343540	28	25	<100	18.5	190	3.0	1.9	0.7
343541	40	19	<100	5.8	100	3.5	2.2	1.0
343542	25	49	<100	3.5	30	8.0	5.8	1.3
343543	88	35	<100	5.4	130	12.1	5.4	2.5
343544	140	12	<100	3.7	120	29.1	17.1	5.1
*Rep 343461	40	30	<100	11.5	260	5.2	2.6	1.5
*Rep 343483	76	69	<100	7.8	600	9.5	4.7	1.8
*Rep 343487	208	62	<100	3.5	150	58.4	30.4	9.0
*Rep 343503	84	57	<100	12.0	520	15.5	9.0	2.7
*Rep 343538	182	14	<100	5.3	50	26.2	12.9	6.5
*Std MMISRM24	35	12	<100	8.7	200	2.8	1.1	1.0
*Blk BLANK	4	<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
*Std MMISRM24	38	12	<100	8.7	190	2.7	1.1	1.0

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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
343459	27	8.5	11.2	<1	0.1	9.5	20	1
343460	16	2.1	2.6	<1	<0.1	9.6	6	<1
343461	14	4.4	6.3	<1	<0.1	9.1	19	<1
343462	14	3.9	25.2	<1	<0.1	8.8	75	<1
343463	34	3.8	3.6	<1	<0.1	8.1	6	1
343464	43	12.9	13.5	1	<0.1	11.8	74	9
343465	30	12.9	13.4	1	<0.1	12.9	53	4
343466	52	14.3	20.5	<1	0.2	13.0	68	5
343467	11	2.8	4.2	<1	<0.1	5.0	16	<1
343468	41	9.6	2.3	<1	0.2	6.4	6	2
343469	95	30.8	5.3	<1	0.4	12.5	30	3
343470	24	5.1	129	<1	<0.1	7.6	407	1
343471	163	11.3	78.4	<1	<0.1	8.8	246	6
343472	23	0.8	20.7	<1	<0.1	15.7	58	1
343473	11	2.1	11.3	<1	<0.1	9.1	36	<1
343474	37	6.8	32.1	<1	<0.1	15.3	89	3
343475	10	1.5	1.5	<1	<0.1	9.9	3	<1
343476	41	9.5	9.5	<1	<0.1	11.5	21	5
343477	64	8.2	41.4	<1	0.1	7.3	115	2
343478	14	4.3	6.9	<1	<0.1	8.3	30	1
343479	15	5.5	22.5	<1	<0.1	15.8	60	2
343480	68	16.1	18.2	<1	<0.1	7.3	33	3
343481	17	5.4	7.3	<1	<0.1	7.1	21	2
343482	24	8.3	6.7	<1	<0.1	6.9	21	3
343483	68	4.9	6.6	<1	<0.1	6.4	24	2
343484	20	7.5	69.5	1	<0.1	8.3	381	3
343485	6	1.9	3.1	<1	<0.1	8.6	13	<1
343486	8	1.5	8.1	<1	<0.1	15.4	22	<1
343487	63	16.4	50.4	<1	0.2	9.7	67	3
343488	58	16.9	12.9	<1	0.3	12.4	66	7
343489	23	8.2	10.2	<1	<0.1	5.1	24	1
343490	19	4.4	7.9	<1	<0.1	7.7	15	<1
343491	56	26.7	10.5	<1	0.2	8.0	12	3
343492	50	12.5	64.4	<1	<0.1	14.2	106	6
343493	20	7.4	69.9	<1	<0.1	8.5	303	3
343494	54	16.2	8.4	<1	0.2	8.6	27	3
343495	41	9.7	4.0	<1	0.1	12.0	7	4
343496	98	20.8	10.1	<1	0.3	11.2	13	11
343497	41	11.2	3.6	<1	0.1	9.7	8	4
343498	55	33.2	15.1	<1	0.1	8.5	56	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
343499	22	10.9	15.7	<1	<0.1	4.1	43	<1
343500	69	15.9	7.5	<1	<0.1	16.5	18	1
343501	9	<0.5	3.9	<1	<0.1	24.5	3	<1
343502	14	3.9	14.7	<1	<0.1	4.7	45	2
343503	47	10.5	12.3	<1	0.1	8.3	37	4
343504	99	15.3	1.5	<1	0.1	8.1	4	3
343505	201	68.9	8.7	<1	0.2	10.3	33	26
343506	73	13.4	26.0	<1	<0.1	5.4	120	5
343507	118	32.9	7.3	<1	0.2	19.9	25	32
343508	26	5.4	7.6	<1	<0.1	13.7	17	2
343509	41	11.1	27.3	<1	<0.1	9.9	77	5
343510	44	11.6	4.4	<1	<0.1	38.3	11	5
343511	14	5.5	11.9	<1	<0.1	20.5	27	1
343512	94	33.5	11.8	1	0.2	13.1	71	23
343513	139	24.6	11.1	<1	0.3	12.2	26	16
343514	127	17.5	16.8	1	0.3	33.3	33	6
343515	11	1.5	16.0	<1	<0.1	40.4	19	<1
343516	56	4.2	5.2	<1	<0.1	7.8	18	1
343517	26	5.1	10.4	1	<0.1	10.8	29	1
343518	29	6.8	18.4	<1	<0.1	12.5	43	1
343519	16	4.9	9.1	<1	<0.1	14.6	26	1
343520	25	6.8	13.7	<1	<0.1	7.0	58	3
343521	11	3.9	154	<1	<0.1	18.3	233	1
343522	67	12.8	9.7	<1	<0.1	11.9	49	8
343523	41	14.0	29.5	1	<0.1	4.9	90	4
343524	15	6.4	5.4	<1	<0.1	5.9	15	<1
343525	24	7.3	5.1	<1	<0.1	17.9	8	1
343526	95	23.8	9.8	1	0.3	11.3	23	12
343527	52	10.7	8.9	<1	<0.1	10.5	35	7
343528	51	6.7	3.8	<1	<0.1	10.9	8	3
343529	22	6.6	7.9	1	<0.1	10.8	13	1
343530	28	6.9	13.6	<1	<0.1	6.6	44	1
343531	20	5.2	4.1	<1	<0.1	18.1	13	2
343532	8	2.9	4.0	<1	<0.1	22.4	9	<1
343533	43	9.7	22.6	<1	<0.1	10.1	47	6
343534	69	18.3	16.6	<1	0.1	15.1	62	9
343535	61	12.7	11.7	<1	<0.1	51.6	42	5
343536	84	6.3	7.2	<1	<0.1	10.4	40	10
343537	9	5.5	19.0	<1	<0.1	8.8	69	<1
343538	39	18.9	25.0	<1	0.1	14.4	82	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
343539	41	15.6	5.0	<1	<0.1	17.7	11	3
343540	43	1.7	2.5	<1	<0.1	13.9	14	<1
343541	113	3.8	3.2	<1	<0.1	5.4	20	<1
343542	80	22.0	5.1	<1	0.3	10.6	9	2
343543	26	10.1	9.8	<1	<0.1	15.1	29	1
343544	18	13.5	18.5	<1	<0.1	7.4	60	<1
*Rep 343461	13	4.1	6.6	<1	<0.1	9.0	18	<1
*Rep 343483	62	5.2	6.9	<1	<0.1	6.2	26	2
*Rep 343487	66	16.7	45.4	<1	0.3	9.7	62	4
*Rep 343503	49	10.6	11.6	<1	0.1	7.9	36	4
*Rep 343538	46	19.1	25.5	<1	0.1	13.6	78	3
*Std MMISRM24	6	2.1	3.6	3	<0.1	11.5	14	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
*Std MMISRM24	8	2.4	4.2	4	<0.1	11.6	14	2

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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
343459	6.2	4500	<2	0.5	37	110	0.7	1010
343460	4.4	2600	<2	<0.5	7	200	0.5	44
343461	4.2	1300	<2	<0.5	25	71	0.8	81
343462	6.4	1500	<2	<0.5	108	63	0.5	81
343463	3.1	4400	<2	<0.5	11	104	0.6	480
343464	7.0	3200	<2	1.4	137	313	2.5	182
343465	2.4	900	<2	1.6	80	82	1.8	230
343466	3.1	1600	<2	4.0	93	102	1.7	564
343467	17.7	700	<2	<0.5	21	30	0.1	84
343468	1.6	500	<2	1.3	9	49	0.8	330
343469	10.7	1500	3	18.0	25	72	7.2	979
343470	3.4	200	<2	0.9	513	39	0.5	266
343471	5.9	7200	2	2.9	311	85	1.2	62
343472	28.9	12900	2	<0.5	103	79	<0.1	37
343473	9.8	1200	<2	<0.5	48	35	0.1	167
343474	5.6	2700	<2	1.3	128	65	1.0	289
343475	13.1	1500	<2	<0.5	5	135	0.3	49
343476	2.8	4400	<2	0.8	35	136	2.4	256
343477	1.6	6100	3	1.4	171	78	0.8	548
343478	2.7	1700	<2	<0.5	31	59	0.6	132
343479	4.3	2400	<2	1.0	86	98	1.2	472
343480	4.1	7700	<2	0.8	67	99	2.6	129
343481	1.1	1100	<2	<0.5	28	44	0.8	128
343482	1.1	800	<2	1.2	28	52	2.1	517
343483	1.1	200	<2	0.7	27	54	1.0	52
343484	1.0	800	2	1.3	390	78	1.0	95
343485	2.7	1500	<2	<0.5	16	23	0.3	210
343486	32.4	1400	<2	<0.5	29	53	0.2	72
343487	3.4	900	<2	2.5	153	109	0.9	1710
343488	10.5	300	3	6.4	65	80	4.4	876
343489	1.7	900	<2	1.0	37	51	0.6	165
343490	0.9	500	<2	<0.5	25	40	0.5	282
343491	5.0	2700	<2	1.3	31	86	1.5	402
343492	2.7	9300	<2	2.2	179	90	1.8	442
343493	1.7	500	<2	1.2	346	52	1.3	122
343494	1.6	1500	<2	4.7	30	67	1.3	576
343495	4.4	800	<2	1.5	11	65	1.2	342
343496	10.3	1500	<2	3.5	29	105	1.5	413
343497	2.8	3400	<2	1.5	12	74	2.5	570
343498	2.8	1700	<2	5.1	70	35	5.4	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	100	2	0.5	1	5	0.1	5
	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppb
343499	<0.5	1100	<2	0.7	66	42	0.4	129
343500	31.6	2100	<2	2.5	27	78	0.9	165
343501	18.0	4900	<2	<0.5	6	90	0.3	33
343502	1.9	200	<2	<0.5	77	62	0.5	139
343503	1.2	500	<2	1.8	49	77	1.1	622
343504	3.0	200	<2	1.4	4	141	1.3	112
343505	6.1	200	7	14.0	37	96	3.4	229
343506	25.5	1600	<2	3.0	130	112	0.7	443
343507	22.2	4200	3	6.9	27	143	2.3	612
343508	4.2	2300	<2	<0.5	25	248	1.4	439
343509	4.1	2300	<2	2.4	114	60	1.3	248
343510	18.5	3000	2	1.3	16	148	0.6	441
343511	2.5	1700	<2	<0.5	52	96	0.7	144
343512	6.8	2200	4	13.4	59	120	2.0	519
343513	8.8	700	<2	4.6	42	96	2.2	272
343514	16.9	4800	4	2.5	53	109	3.1	1330
343515	44.0	1700	<2	<0.5	47	71	0.1	133
343516	4.3	4600	2	<0.5	23	124	0.7	83
343517	4.8	2400	<2	0.6	38	147	0.5	228
343518	2.6	2200	<2	<0.5	69	114	1.7	276
343519	2.1	700	<2	<0.5	35	121	1.3	125
343520	0.9	1000	<2	0.8	77	42	1.5	77
343521	15.1	700	<2	<0.5	612	64	0.2	27
343522	11.0	1700	<2	1.1	42	167	1.8	188
343523	1.0	2300	<2	1.0	147	75	1.7	128
343524	1.3	1000	<2	<0.5	23	67	0.5	225
343525	8.1	2500	<2	<0.5	15	139	1.1	200
343526	4.9	1900	4	4.4	31	92	3.4	1330
343527	2.9	300	<2	3.2	40	168	0.9	374
343528	8.1	2500	2	<0.5	12	159	2.1	317
343529	0.9	1900	<2	<0.5	24	76	1.8	104
343530	1.8	1200	2	0.5	63	164	2.5	193
343531	11.3	1700	<2	<0.5	14	92	0.7	136
343532	13.8	1000	<2	<0.5	14	104	0.6	121
343533	8.5	2300	<2	1.0	84	272	1.1	227
343534	2.4	2300	3	2.5	71	195	2.1	555
343535	15.8	6800	3	1.1	57	215	2.2	370
343536	1.3	11700	3	1.2	37	77	2.6	114
343537	<0.5	400	<2	<0.5	96	24	0.2	172
343538	0.8	700	4	2.4	118	34	2.5	311

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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
343539	1.4	1100	<2	1.6	18	52	1.9	307
343540	<0.5	200	3	<0.5	12	35	0.8	67
343541	<0.5	2600	<2	<0.5	18	47	1.2	84
343542	1.2	200	<2	2.1	18	72	3.2	174
343543	2.8	800	<2	<0.5	42	65	1.4	239
343544	<0.5	300	<2	<0.5	85	10	0.6	139
*Rep 343461	4.2	1200	<2	<0.5	23	72	0.6	78
*Rep 343483	1.1	300	<2	0.8	31	53	1.1	63
*Rep 343487	3.5	700	<2	2.7	142	105	0.9	1670
*Rep 343503	1.0	400	<2	1.8	46	72	1.1	605
*Rep 343538	0.8	700	4	2.7	114	32	2.7	318
*Std MMISRM24	10.8	200	18	<0.5	20	94	0.4	175
*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
*Std MMISRM24	10.5	200	19	<0.5	21	87	0.4	172

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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
343459	<1	7.5	<0.1	237	0.6	31	9	<1
343460	<1	1.5	<0.1	165	0.7	14	2	<1
343461	<1	5.5	<0.1	123	0.7	16	7	<1
343462	<1	22.9	<0.1	121	0.5	29	24	<1
343463	<1	2.0	<0.1	125	<0.5	13	3	<1
343464	<1	30.7	<0.1	106	1.6	20	23	<1
343465	<1	18.5	<0.1	118	1.1	24	16	<1
343466	<1	21.6	<0.1	296	1.0	28	20	1
343467	<1	4.3	<0.1	50	<0.5	6	4	<1
343468	<1	1.9	<0.1	60	0.8	22	2	<1
343469	<1	6.7	<0.1	272	2.2	25	5	7
343470	<1	119	<0.1	73	<0.5	44	118	<1
343471	<1	76.7	<0.1	175	0.6	29	75	<1
343472	<1	22.0	<0.1	73	<0.5	11	21	<1
343473	<1	10.8	<0.1	107	<0.5	8	11	<1
343474	<1	28.0	<0.1	319	<0.5	39	29	<1
343475	<1	0.9	<0.1	321	<0.5	6	1	<1
343476	<1	7.3	<0.1	287	<0.5	34	9	<1
343477	<1	38.9	<0.1	133	<0.5	36	41	<1
343478	<1	7.2	<0.1	145	<0.5	17	7	<1
343479	<1	19.2	<0.1	159	<0.5	27	21	<1
343480	<1	13.5	<0.1	64	<0.5	23	17	<1
343481	<1	6.1	<0.1	89	<0.5	16	7	<1
343482	<1	6.4	<0.1	65	<0.5	19	6	<1
343483	<1	6.7	<0.1	62	<0.5	18	7	<1
343484	<1	99.0	<0.1	122	<0.5	40	76	<1
343485	<1	3.6	<0.1	79	<0.5	<5	3	<1
343486	<1	6.3	<0.1	183	<0.5	7	7	<1
343487	<1	29.3	<0.1	101	<0.5	22	41	2
343488	<1	16.1	<0.1	198	0.8	41	13	4
343489	<1	7.9	<0.1	63	<0.5	21	9	<1
343490	<1	5.3	<0.1	118	<0.5	36	7	<1
343491	<1	6.2	<0.1	135	<0.5	21	8	<1
343492	<1	38.6	<0.1	191	<0.5	32	49	<1
343493	<1	84.4	<0.1	118	<0.5	24	73	<1
343494	<1	6.7	<0.1	103	<0.5	34	7	1
343495	<1	2.3	<0.1	124	<0.5	16	3	<1
343496	<1	6.0	<0.1	161	<0.5	39	8	1
343497	<1	2.6	<0.1	185	<0.5	14	3	<1
343498	<1	17.0	<0.1	108	<0.5	33	15	2

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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
343499	<1	15.0	<0.1	106	<0.5	31	15	<1
343500	<1	5.8	<0.1	119	<0.5	12	7	<1
343501	<1	1.0	<0.1	128	<0.5	6	2	<1
343502	<1	16.6	<0.1	48	<0.5	22	14	<1
343503	<1	11.3	<0.1	69	0.9	47	11	1
343504	<1	0.8	<0.1	53	1.7	32	1	<1
343505	<1	8.7	<0.1	102	4.2	94	8	6
343506	<1	30.5	<0.1	74	<0.5	53	26	<1
343507	<1	6.3	<0.1	166	0.5	58	7	3
343508	<1	5.2	<0.1	232	<0.5	25	6	<1
343509	<1	26.8	<0.1	238	<0.5	36	27	<1
343510	<1	3.3	<0.1	216	<0.5	18	4	1
343511	<1	10.9	<0.1	232	<0.5	35	11	<1
343512	<1	14.5	<0.1	177	0.8	53	11	4
343513	<1	9.3	<0.1	170	<0.5	49	11	1
343514	<1	11.2	<0.1	173	0.6	37	15	2
343515	<1	8.1	<0.1	173	<0.5	<5	14	<1
343516	<1	5.2	<0.1	192	<0.5	14	5	<1
343517	<1	8.6	<0.1	102	<0.5	24	9	<1
343518	<1	15.0	<0.1	282	<0.5	55	17	<1
343519	<1	7.8	<0.1	112	<0.5	20	8	<1
343520	<1	18.0	<0.1	120	<0.5	26	15	<1
343521	<1	114	<0.1	146	<0.5	16	149	<1
343522	<1	10.4	<0.1	116	<0.5	37	9	<1
343523	<1	31.5	<0.1	72	<0.5	73	30	<1
343524	<1	5.1	<0.1	55	<0.5	21	4	<1
343525	<1	3.0	<0.1	386	<0.5	16	3	<1
343526	<1	7.1	<0.1	121	1.3	45	9	3
343527	<1	9.6	<0.1	172	<0.5	27	8	<1
343528	<1	2.5	<0.1	200	<0.5	23	3	<1
343529	<1	4.9	<0.1	54	<0.5	48	6	<1
343530	<1	14.4	<0.1	133	<0.5	32	14	<1
343531	<1	3.3	<0.1	176	<0.5	14	4	<1
343532	<1	2.9	<0.1	248	<0.5	12	4	<1
343533	<1	17.8	<0.1	115	<0.5	29	20	<1
343534	<1	16.5	<0.1	230	0.8	37	16	1
343535	<1	12.6	<0.1	379	0.6	26	12	1
343536	<1	9.5	<0.1	158	<0.5	17	7	<1
343537	<1	23.2	<0.1	116	<0.5	19	19	<1
343538	<1	27.8	<0.1	119	<0.5	22	23	<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
343539	<1	3.8	<0.1	115	<0.5	15	4	<1
343540	<1	3.2	<0.1	214	<0.5	11	2	<1
343541	<1	4.8	<0.1	135	0.8	13	4	<1
343542	<1	3.4	<0.1	104	<0.5	19	4	<1
343543	<1	9.2	<0.1	160	<0.5	15	9	<1
343544	<1	20.6	<0.1	67	<0.5	40	17	<1
*Rep 343461	<1	5.3	<0.1	128	<0.5	14	6	<1
*Rep 343483	<1	7.3	<0.1	59	<0.5	18	7	<1
*Rep 343487	<1	27.9	<0.1	99	<0.5	23	37	1
*Rep 343503	<1	10.9	<0.1	66	1.1	47	10	<1
*Rep 343538	<1	27.0	<0.1	118	<0.5	23	23	<1
*Std MMISRM24	5	4.7	2.2	125	<0.5	6	4	<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
*Std MMISRM24	5	4.7	2.2	124	<0.5	6	5	<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
343459	130	<1	2.1	<10	8.1	380	1.1	4.2
343460	210	<1	0.4	<10	2.5	120	0.8	1.6
343461	120	<1	0.8	<10	3.7	110	0.9	3.2
343462	180	<1	4.0	<10	10.6	230	1.0	8.0
343463	490	<1	0.6	<10	3.5	340	1.2	1.4
343464	100	<1	1.7	<10	18.8	1090	1.2	5.9
343465	50	<1	2.2	<10	8.2	680	1.7	4.5
343466	40	<1	3.5	<10	40.6	1460	1.3	9.5
343467	720	<1	0.5	<10	3.1	180	0.7	3.9
343468	30	<1	0.5	<10	3.9	480	0.8	2.4
343469	70	<1	0.9	<10	21.0	10100	1.7	4.6
343470	140	<1	19.8	<10	39.9	370	0.6	55.2
343471	130	<1	12.8	<10	24.6	980	0.8	27.9
343472	1030	<1	2.5	<10	9.1	<10	0.6	9.9
343473	300	<1	1.6	<10	5.6	110	1.4	7.0
343474	80	<1	5.8	<10	36.0	1010	2.2	10.0
343475	520	<1	0.2	<10	1.4	110	0.8	2.2
343476	50	<1	1.5	<10	7.2	1250	1.5	2.2
343477	70	<1	7.2	<10	27.6	540	1.2	15.9
343478	180	<1	1.0	<10	6.0	250	1.5	2.8
343479	110	<1	4.3	<10	19.3	380	1.5	10.3
343480	80	<1	3.0	<10	7.9	610	1.0	4.7
343481	70	<1	1.3	<10	8.8	310	0.8	3.6
343482	20	<1	1.3	<10	10.6	560	0.8	5.9
343483	30	<1	1.2	<10	7.5	360	0.7	7.8
343484	20	<1	10.9	<10	26.1	500	1.4	18.7
343485	180	<1	0.5	<10	4.7	10	0.5	2.9
343486	430	<1	1.2	<10	4.6	50	0.3	4.0
343487	130	<1	9.1	<10	13.4	910	0.6	10.8
343488	90	<1	1.9	<10	20.6	4070	1.1	6.0
343489	70	<1	1.7	<10	15.5	440	0.3	8.1
343490	20	<1	2.1	<10	11.9	100	0.5	10.6
343491	50	<1	2.0	<10	16.5	1100	0.7	2.4
343492	50	<1	13.5	<10	26.4	950	0.9	17.6
343493	50	<1	10.4	<10	36.5	490	1.1	44.1
343494	40	<1	1.7	<10	15.5	1360	0.6	5.2
343495	100	<1	1.0	<10	4.7	550	0.6	2.1
343496	120	<1	2.0	<10	11.5	1580	0.7	2.4
343497	50	<1	0.7	<10	9.1	810	1.0	3.3
343498	<10	<1	2.5	<10	33.9	4210	0.6	4.3

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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
343499	<10	<1	2.6	<10	8.0	460	0.4	6.2
343500	400	<1	1.4	<10	9.5	1700	0.4	2.6
343501	490	<1	0.6	<10	1.5	20	1.4	1.7
343502	60	<1	2.3	<10	5.8	210	0.5	4.8
343503	30	<1	2.3	<10	16.3	790	0.6	6.1
343504	50	<1	0.2	<10	1.3	4260	0.3	1.0
343505	20	<1	1.5	<10	11.6	11100	0.9	4.6
343506	810	<1	3.6	<10	12.0	2310	1.5	4.9
343507	230	<1	1.1	<10	9.5	3580	1.3	3.6
343508	130	<1	1.1	<10	4.9	330	1.4	2.1
343509	70	<1	4.3	<10	33.6	1000	1.3	9.5
343510	260	<1	0.6	<10	5.3	760	0.5	2.8
343511	50	<1	1.9	<10	3.3	220	0.7	1.8
343512	140	<1	1.8	<10	18.7	4410	1.3	3.9
343513	180	<1	1.9	<10	13.8	1910	0.7	3.8
343514	380	<1	2.6	<10	13.1	1270	1.2	9.6
343515	1310	<1	2.0	<10	1.8	30	0.1	2.6
343516	180	<1	0.9	<10	4.2	200	1.0	4.7
343517	150	<1	1.8	<10	13.5	310	1.1	5.4
343518	30	<1	3.2	<10	5.6	490	1.6	3.7
343519	130	<1	1.8	<10	11.2	280	1.0	9.2
343520	<10	<1	2.1	<10	11.9	570	0.9	7.0
343521	710	<1	17.3	<10	3.2	190	0.5	16.0
343522	200	<1	1.3	<10	3.5	1580	0.9	1.5
343523	<10	<1	4.3	<10	7.4	1230	0.4	4.0
343524	30	<1	0.9	<10	2.5	150	1.0	1.1
343525	160	<1	0.8	<10	1.8	120	1.1	1.0
343526	70	<1	1.7	<10	11.5	1880	1.1	4.2
343527	60	<1	1.4	<10	8.2	1250	0.9	2.6
343528	230	<1	0.7	<10	5.6	440	1.5	3.0
343529	10	<1	1.4	<10	3.7	350	0.9	2.2
343530	30	<1	2.5	<10	19.0	380	1.2	9.1
343531	210	<1	0.5	<10	2.7	350	0.6	1.7
343532	580	<1	0.6	<10	1.0	90	1.0	2.6
343533	180	<1	3.6	<10	5.5	790	2.0	3.2
343534	70	<1	2.6	<10	13.9	1590	2.1	6.3
343535	350	<1	1.6	<10	13.3	870	2.1	5.9
343536	30	<1	1.2	<10	19.1	380	1.4	71.3
343537	<10	<1	3.6	<10	4.5	20	0.2	41.7
343538	<10	<1	4.2	<10	13.4	960	0.4	32.2

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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
343539	40	<1	1.0	<10	10.5	600	0.5	12.0
343540	<10	<1	0.4	<10	7.8	90	0.6	45.6
343541	<10	<1	0.5	<10	15.2	120	0.5	38.5
343542	30	<1	0.9	<10	6.7	710	0.4	6.8
343543	100	<1	1.8	<10	11.3	220	0.4	16.6
343544	<10	<1	3.9	<10	12.1	120	0.2	38.9
*Rep 343461	130	<1	0.8	<10	3.3	90	0.9	3.0
*Rep 343483	30	<1	1.3	<10	7.3	390	0.7	7.4
*Rep 343487	140	<1	8.7	<10	13.0	950	0.6	9.7
*Rep 343503	20	<1	2.1	<10	16.4	810	0.7	6.0
*Rep 343538	<10	<1	4.3	<10	14.4	1090	0.4	32.9
*Std MMISRM24	1360	<1	0.5	<10	11.3	30	0.2	6.9
*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
*Std MMISRM24	1330	<1	0.6	<10	12.6	60	0.2	7.0

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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 ppb	1 ppb	0.2 ppb	10 ppb	2 ppb
343459	<0.5	84	7.6	950	6
343460	<0.5	19	1.5	7240	4
343461	<0.5	25	2.0	200	4
343462	<0.5	162	12.3	200	6
343463	<0.5	25	2.1	3160	4
343464	<0.5	35	2.6	3830	11
343465	<0.5	57	4.5	1560	9
343466	1.1	108	9.8	1050	23
343467	<0.5	17	1.2	40	2
343468	<0.5	23	6.2	990	8
343469	1.0	32	2.6	1520	19
343470	<0.5	590	36.3	500	17
343471	0.6	394	29.1	680	13
343472	<0.5	90	7.0	160	5
343473	<0.5	61	4.5	220	3
343474	1.3	182	17.9	540	14
343475	<0.5	8	0.6	320	<2
343476	<0.5	62	5.1	2750	10
343477	<0.5	218	17.1	230	16
343478	<0.5	35	2.2	200	6
343479	<0.5	107	9.1	1470	12
343480	<0.5	104	8.8	4060	7
343481	<0.5	47	3.3	260	6
343482	<0.5	40	3.6	1840	10
343483	<0.5	36	3.4	590	7
343484	<0.5	280	19.0	1750	19
343485	<0.5	21	2.0	1140	<2
343486	<0.5	45	3.5	250	<2
343487	<0.5	338	26.2	2020	9
343488	0.5	66	5.7	1710	12
343489	<0.5	57	5.1	220	12
343490	<0.5	70	7.4	2120	7
343491	<0.5	77	6.7	3700	5
343492	<0.5	521	35.2	3210	13
343493	<0.5	241	15.2	510	15
343494	<0.5	73	8.3	2370	18
343495	<0.5	45	5.0	8150	6
343496	<0.5	102	13.2	4110	9
343497	<0.5	24	2.3	8070	9
343498	<0.5	74	6.1	440	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
343499	<0.5	93	8.3	910	7
343500	<0.5	60	5.0	1840	5
343501	<0.5	63	6.9	130	<2
343502	<0.5	82	5.6	190	5
343503	<0.5	84	8.5	1350	19
343504	1.7	17	4.0	710	7
343505	1.5	50	6.9	890	39
343506	<0.5	129	8.7	370	11
343507	0.7	42	3.8	3810	26
343508	<0.5	40	3.1	3160	7
343509	<0.5	154	12.0	520	18
343510	<0.5	21	1.9	4020	7
343511	<0.5	66	4.5	630	4
343512	1.3	66	5.0	820	31
343513	<0.5	64	8.0	3940	13
343514	<0.5	84	7.4	4010	18
343515	<0.5	69	4.9	910	<2
343516	<0.5	32	2.9	700	4
343517	<0.5	70	5.6	830	13
343518	<0.5	108	10.9	500	7
343519	<0.5	44	3.6	1060	8
343520	<0.5	64	4.3	160	8
343521	<0.5	553	35.4	140	2
343522	<0.5	57	3.8	4130	10
343523	<0.5	147	12.2	700	12
343524	<0.5	37	2.5	640	3
343525	<0.5	40	3.5	790	4
343526	0.5	59	5.2	3880	19
343527	0.5	61	5.0	550	11
343528	<0.5	28	2.7	3420	8
343529	<0.5	55	5.1	1970	7
343530	<0.5	65	6.2	1830	12
343531	<0.5	21	1.5	600	4
343532	<0.5	21	1.9	440	<2
343533	<0.5	146	10.6	2730	6
343534	<0.5	90	6.0	2600	14
343535	<0.5	43	3.1	1740	9
343536	0.5	43	4.3	820	7
343537	<0.5	140	10.4	90	<2
343538	<0.5	141	9.0	660	10

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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
343539	<0.5	33	2.6	6780	11
343540	<0.5	15	1.6	650	4
343541	<0.5	16	2.1	470	5
343542	<0.5	45	6.1	3240	9
343543	<0.5	58	3.5	1550	7
343544	<0.5	152	14.5	300	6
*Rep 343461	<0.5	25	2.0	220	4
*Rep 343483	<0.5	39	3.6	670	7
*Rep 343487	<0.5	318	24.5	1990	9
*Rep 343503	<0.5	78	8.0	1220	18
*Rep 343538	<0.5	137	9.0	640	11
*Std MMISRM24	<0.5	18	0.7	90	18
*Blk BLANK	<0.5	<1	<0.2	<10	<2
*Blk BLANK	<0.5	<1	<0.2	<10	<2
*Std MMISRM24	<0.5	18	0.8	90	21

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Certificate of Analysis
Work Order : VC184720
[Report File No.: 0000034674]

Date: March 26, 2019

To: Garry Smith
DEVON GEOLOGICAL SERVICES LTD
3267 STONECREST ROAD RR#2
WOODLAWN ON K0A 3M0

P.O. No.: TEST: 421 Samples (345-421)
Project No.: -
Samples: 77
Received: Dec 17, 2018
Pages: Page 1 to 22
(Inclusive of Cover Sheet)

Methods Summary

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

Comments:

Upon Client's request, this Certificate/Report has been issued in more than one original. Only the first original is a legally binding document and may be used for any legal purpose, including payment.

Certified By :

Gerald Chik
Operations Manager/Chief 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
343545	5.2	248	<10	<0.1	310	<0.5	11	23
343546	14.8	197	<10	<0.1	350	<0.5	16	24
343547	4.1	198	<10	<0.1	220	<0.5	9	16
343548	6.9	232	10	<0.1	1530	<0.5	73	28
343549	4.6	213	<10	<0.1	200	<0.5	12	35
343550	<0.5	249	10	<0.1	1170	1.3	13	126
343551	4.0	246	<10	<0.1	340	<0.5	8	47
343552	9.6	226	<10	<0.1	530	<0.5	24	37
343553	10.9	240	10	<0.1	610	<0.5	49	46
343554	12.0	114	<10	<0.1	1310	<0.5	141	9
343555	5.5	250	<10	<0.1	1040	0.6	19	22
343556	3.5	175	<10	<0.1	940	<0.5	78	18
343557	6.8	210	<10	<0.1	1200	<0.5	90	24
343558	10.3	98	<10	<0.1	2470	<0.5	225	28
343559	16.5	107	<10	<0.1	2510	<0.5	166	25
343560	21.5	149	<10	<0.1	2510	<0.5	121	25
343561	10.3	133	<10	<0.1	2110	<0.5	164	21
343562	5.4	220	<10	<0.1	320	<0.5	14	53
343563	10.6	110	10	0.1	450	0.5	185	66
343564	115	122	20	0.6	620	<0.5	123	31
343565	14.6	41	<10	0.4	230	<0.5	10	7
343566	18.3	142	<10	0.1	2250	0.7	152	22
343567	6.2	140	<10	<0.1	250	<0.5	32	21
343568	5.1	209	<10	<0.1	440	<0.5	32	37
343569	4.8	152	<10	<0.1	2030	<0.5	158	69
343570	4.0	193	<10	<0.1	1100	<0.5	75	36
343571	8.5	179	<10	<0.1	380	<0.5	105	37
343572	6.9	159	<10	<0.1	430	<0.5	68	24
343573	6.5	186	<10	<0.1	680	1.1	100	55
343574	5.4	202	<10	<0.1	300	<0.5	8	56
343575	7.7	205	<10	<0.1	780	1.1	37	79
343576	16.7	187	<10	<0.1	730	<0.5	68	44
343577	52.7	190	<10	0.1	1290	<0.5	78	32
343578	22.1	218	<10	<0.1	810	<0.5	60	46
343579	11.8	190	<10	<0.1	740	<0.5	30	33
343580	38.9	231	<10	<0.1	1030	<0.5	60	50
343581	7.7	141	<10	0.2	450	<0.5	21	14
343582	3.5	127	<10	<0.1	3120	<0.5	212	31
343583	57.0	182	<10	<0.1	2730	0.8	66	52
343584	22.0	209	<10	<0.1	1190	<0.5	27	41

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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
343585	10.7	213	<10	<0.1	680	<0.5	32	54
343586	49.9	191	<10	<0.1	1220	0.7	117	89
343587	23.5	193	10	0.2	1760	<0.5	67	77
343588	19.1	174	<10	<0.1	580	<0.5	46	27
343589	12.0	221	<10	<0.1	560	<0.5	17	28
343590	10.9	186	<10	<0.1	780	<0.5	123	32
343591	15.1	211	<10	<0.1	600	<0.5	64	49
343592	2.7	211	<10	<0.1	850	<0.5	76	43
343593	22.3	105	<10	<0.1	720	<0.5	125	21
343594	7.8	213	<10	<0.1	650	<0.5	17	23
343595	11.8	181	<10	<0.1	670	<0.5	40	10
343596	4.5	143	<10	<0.1	1060	<0.5	14	24
343597	4.3	229	<10	<0.1	810	<0.5	19	46
343598	10.6	179	<10	<0.1	460	<0.5	101	20
343599	12.7	162	<10	<0.1	320	<0.5	57	47
343600	15.5	197	<10	<0.1	450	<0.5	89	17
343601	27.8	65	<10	<0.1	2700	<0.5	208	12
343602	12.5	139	<10	<0.1	520	<0.5	128	26
343603	7.5	133	<10	<0.1	970	<0.5	85	26
343604	13.2	171	<10	<0.1	570	<0.5	126	31
343605	44.6	32	<10	0.1	3860	<0.5	469	38
343606	24.5	84	20	<0.1	590	<0.5	233	37
343607	10.9	82	10	0.1	1520	<0.5	184	49
343608	4.7	113	<10	<0.1	590	<0.5	23	3
343609	3.2	123	<10	<0.1	490	<0.5	15	2
343610	11.4	210	<10	<0.1	510	<0.5	24	28
343611	1.1	196	20	<0.1	670	1.5	58	23
343612	6.9	244	<10	<0.1	770	<0.5	8	19
343613	26.1	188	<10	<0.1	400	<0.5	17	30
343614	13.4	190	<10	0.1	710	<0.5	15	46
343615	4.1	214	<10	<0.1	620	<0.5	38	35
343616	11.0	169	<10	<0.1	300	<0.5	28	27
343617	3.5	227	<10	<0.1	1260	<0.5	25	43
343618	5.0	264	<10	<0.1	1930	<0.5	6	30
343619	7.1	155	<10	<0.1	570	<0.5	143	36
343620	3.8	221	<10	<0.1	240	<0.5	6	31
343621	6.5	219	<10	<0.1	690	<0.5	35	37
*Rep 343556	3.7	173	<10	<0.1	940	<0.5	70	17
*Rep 343572	6.9	151	<10	<0.1	410	<0.5	72	21
*Rep 343593	20.6	110	<10	<0.1	760	<0.5	116	24

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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	1	10	0.1	10	0.5	2	1
	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb
*Std MMISRM24	20.4	28	<10	3.3	130	<0.5	55	5
*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	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
343545	203	64	<100	5.2	120	24.5	10.3	6.3
343546	211	45	<100	4.9	120	28.5	15.5	6.0
343547	95	40	<100	6.5	70	26.8	16.8	4.5
343548	179	32	<100	3.6	130	19.0	9.3	4.5
343549	292	47	<100	3.7	110	28.4	14.3	6.7
343550	23	34	<100	2.8	100	9.0	7.4	0.8
343551	44	44	<100	4.3	130	9.0	5.0	1.4
343552	179	24	<100	4.9	120	23.0	11.4	5.3
343553	146	30	<100	4.5	270	21.0	10.1	5.0
343554	209	37	<100	2.4	50	21.4	11.9	5.6
343555	63	42	<100	1.9	80	16.8	10.1	3.4
343556	71	39	<100	3.8	70	13.5	7.2	2.9
343557	124	35	<100	3.5	100	21.0	11.4	4.4
343558	61	12	<100	0.7	100	8.9	4.3	2.6
343559	414	66	<100	3.7	210	47.1	21.8	15.0
343560	316	34	<100	5.3	260	47.8	21.4	14.5
343561	265	23	<100	8.1	50	15.7	7.7	3.9
343562	40	110	<100	9.3	470	8.2	4.5	1.4
343563	40	32	<100	2.4	160	5.7	3.4	1.3
343564	34	40	<100	14.4	300	4.4	2.1	1.3
343565	816	123	<100	23.9	1320	76.8	49.1	18.2
343566	181	19	<100	21.3	380	14.8	7.9	4.1
343567	412	25	<100	14.0	440	64.7	33.1	18.6
343568	85	113	<100	26.2	210	16.4	9.1	3.3
343569	48	39	<100	7.9	280	5.6	2.9	1.5
343570	27	49	<100	8.1	110	4.6	2.5	0.9
343571	67	59	<100	10.2	260	6.2	3.2	1.5
343572	245	33	<100	6.2	230	21.9	10.3	7.6
343573	29	99	<100	6.8	180	4.6	2.6	1.0
343574	46	120	<100	24.8	170	6.8	3.6	1.3
343575	51	52	<100	10.6	470	8.6	5.3	1.2
343576	534	50	<100	13.1	480	33.9	13.7	9.2
343577	508	81	<100	19.4	620	52.7	22.3	17.8
343578	179	28	<100	10.0	120	14.3	6.9	3.9
343579	138	249	<100	17.2	950	34.7	18.8	7.5
343580	37	137	<100	12.0	340	8.1	4.8	1.6
343581	46	168	<100	18.4	3220	6.7	4.2	1.6
343582	70	34	<100	6.9	100	9.6	5.1	2.2
343583	147	42	<100	6.7	350	18.8	10.5	5.1
343584	247	32	<100	4.8	180	15.6	6.9	3.9

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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
343585	88	27	<100	12.8	320	12.8	6.7	2.2
343586	30	16	<100	22.0	470	5.1	3.2	1.0
343587	37	47	<100	10.2	520	7.0	4.4	1.6
343588	125	46	<100	16.1	210	11.1	5.5	2.3
343589	60	102	<100	8.4	150	9.7	5.1	2.1
343590	91	29	<100	15.1	210	8.0	4.3	1.9
343591	58	80	<100	26.1	350	8.0	4.0	1.8
343592	42	56	<100	8.4	250	6.5	3.4	1.3
343593	35	23	<100	12.2	250	3.9	2.4	1.0
343594	109	133	<100	12.2	720	12.1	5.9	3.0
343595	544	55	<100	19.8	480	50.1	24.2	15.8
343596	73	440	<100	10.9	680	12.2	6.4	2.7
343597	89	22	<100	4.4	80	14.9	7.3	3.5
343598	30	12	<100	33.5	230	5.3	3.0	1.3
343599	102	17	<100	13.7	540	14.8	8.9	4.0
343600	268	37	<100	9.5	110	27.8	11.4	6.0
343601	15	54	<100	8.0	560	2.5	1.6	0.7
343602	25	15	<100	9.5	90	4.4	2.2	0.8
343603	348	14	<100	5.8	50	31.3	13.8	8.4
343604	340	58	<100	7.8	230	23.1	9.8	8.3
343605	51	8	<100	5.8	220	38.6	20.7	12.9
343606	33	81	<100	4.3	480	3.4	2.0	1.0
343607	42	591	<100	5.4	1550	3.2	1.8	0.9
343608	7	48	<100	2.9	650	0.8	0.5	<0.2
343609	17	43	<100	15.7	490	1.5	0.8	0.3
343610	132	70	<100	19.2	230	22.3	11.9	5.2
343611	33	66	<100	3.0	140	6.4	4.5	1.4
343612	71	136	<100	4.0	470	15.1	10.7	2.9
343613	237	48	<100	6.4	230	22.8	13.0	6.0
343614	76	58	<100	13.0	230	12.1	6.9	2.9
343615	80	40	<100	13.2	160	8.4	4.4	1.9
343616	92	12	<100	10.4	160	16.3	7.9	3.6
343617	121	86	<100	5.6	220	18.7	10.1	4.0
343618	170	84	<100	10.8	200	14.9	7.8	3.7
343619	21	63	<100	18.1	210	2.5	1.4	0.6
343620	86	60	<100	10.6	620	14.4	6.8	2.8
343621	423	43	<100	5.8	130	25.4	11.9	6.2
*Rep 343556	65	39	<100	3.6	80	14.1	7.3	2.9
*Rep 343572	205	39	<100	5.5	200	19.0	8.7	6.7
*Rep 343593	28	22	<100	12.1	230	3.8	2.6	0.9

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Element	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	2	1	100	0.2	10	0.5	0.2	0.2
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
*Std MMISRM24	38	14	<100	9.0	220	3.1	1.1	1.0
*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
*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
343545	31	15.7	22.6	<1	<0.1	7.7	80	3
343546	24	13.1	23.1	<1	<0.1	11.0	78	2
343547	50	15.7	18.2	<1	0.1	11.6	36	2
343548	52	16.2	18.1	<1	0.2	19.2	75	9
343549	36	17.5	26.2	<1	<0.1	5.6	92	4
343550	101	37.9	4.3	<1	0.4	13.0	8	5
343551	44	14.3	5.6	1	0.1	10.6	15	3
343552	26	13.0	21.0	<1	<0.1	7.2	68	3
343553	38	16.8	20.4	1	0.1	18.1	81	5
343554	20	4.7	22.7	<1	<0.1	7.4	70	1
343555	68	24.8	14.0	<1	0.2	14.6	31	6
343556	31	8.4	11.0	<1	<0.1	10.9	28	2
343557	34	7.4	17.6	<1	<0.1	23.5	42	2
343558	32	16.6	11.3	<1	<0.1	10.0	60	3
343559	43	7.8	61.3	<1	<0.1	45.6	266	2
343560	30	8.3	56.7	<1	<0.1	50.2	289	2
343561	24	6.1	15.9	<1	<0.1	21.5	56	2
343562	47	10.5	6.2	<1	0.1	17.4	13	3
343563	53	18.3	6.0	<1	0.2	10.7	17	2
343564	17	3.6	5.2	<1	<0.1	16.5	22	1
343565	4	1.6	72.7	<1	<0.1	8.7	229	<1
343566	41	7.6	15.4	<1	<0.1	12.0	60	4
343567	9	6.1	82.3	<1	<0.1	4.8	327	<1
343568	39	8.4	14.0	<1	<0.1	8.7	37	6
343569	34	7.9	6.3	<1	<0.1	5.8	29	4
343570	50	12.2	4.0	<1	<0.1	23.1	12	3
343571	23	4.1	6.7	<1	<0.1	8.2	26	2
343572	17	6.1	26.3	<1	<0.1	6.5	110	3
343573	87	15.9	4.3	<1	0.2	10.8	11	5
343574	21	5.6	5.5	<1	<0.1	10.4	14	4
343575	62	15.2	6.3	<1	0.2	23.4	9	8
343576	20	6.5	34.1	<1	<0.1	9.6	140	3
343577	41	11.5	63.9	<1	<0.1	6.9	317	8
343578	35	9.3	18.2	<1	<0.1	8.4	73	5
343579	141	12.5	29.6	<1	<0.1	8.7	74	7
343580	105	17.3	7.2	<1	0.2	13.4	20	9
343581	182	7.2	5.7	<1	<0.1	11.4	22	2
343582	36	4.7	8.9	<1	<0.1	36.1	26	3
343583	102	22.5	20.2	<1	0.2	32.1	85	5
343584	23	5.4	14.0	<1	<0.1	15.3	54	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
343585	18	6.1	10.2	<1	<0.1	14.8	26	2
343586	25	6.3	5.0	<1	<0.1	13.3	13	4
343587	45	9.1	6.1	<1	<0.1	10.7	18	3
343588	22	6.2	9.8	<1	<0.1	11.9	32	2
343589	38	9.2	9.0	<1	<0.1	9.2	22	6
343590	39	9.8	8.2	<1	<0.1	29.7	24	7
343591	28	7.4	7.5	<1	<0.1	32.4	21	3
343592	37	10.6	5.5	<1	<0.1	18.2	14	5
343593	9	3.4	4.5	<1	<0.1	14.1	19	<1
343594	110	15.1	11.9	1	<0.1	8.4	52	5
343595	23	8.0	60.5	1	<0.1	5.5	277	3
343596	199	6.3	10.4	<1	<0.1	23.0	43	3
343597	29	11.5	12.7	<1	<0.1	9.5	31	3
343598	10	4.3	5.1	<1	<0.1	23.8	19	<1
343599	16	4.8	16.0	<1	<0.1	19.6	50	<1
343600	13	5.0	22.6	<1	<0.1	6.3	59	2
343601	9	1.9	2.8	<1	<0.1	8.6	6	<1
343602	7	3.3	4.1	<1	<0.1	13.4	10	<1
343603	12	4.8	32.8	<1	<0.1	19.3	136	<1
343604	54	9.2	26.5	<1	0.2	15.5	88	4
343605	6	1.0	55.8	<1	<0.1	17.4	78	<1
343606	86	13.4	4.2	<1	<0.1	15.3	18	4
343607	153	10.7	3.5	<1	<0.1	19.1	20	6
343608	336	8.9	0.9	<1	<0.1	11.2	3	6
343609	220	6.1	1.4	<1	<0.1	7.5	9	3
343610	44	8.9	20.3	<1	0.1	7.6	50	6
343611	177	33.9	5.8	<1	0.3	8.2	13	9
343612	84	16.5	11.0	<1	0.2	10.6	34	12
343613	19	7.5	21.6	<1	<0.1	7.4	61	2
343614	29	11.3	10.8	<1	<0.1	17.0	32	5
343615	26	8.5	8.7	<1	<0.1	13.9	29	3
343616	14	6.3	15.7	<1	<0.1	20.2	48	2
343617	59	20.4	16.9	<1	0.2	17.1	58	11
343618	62	21.2	13.2	<1	0.1	9.3	68	12
343619	14	2.9	2.8	<1	<0.1	19.8	10	1
343620	25	7.3	11.3	1	<0.1	7.6	29	1
343621	25	9.4	24.0	<1	<0.1	8.5	89	2
*Rep 343556	28	7.7	11.7	<1	<0.1	10.9	28	2
*Rep 343572	16	5.7	24.3	<1	<0.1	6.4	107	4
*Rep 343593	9	2.9	4.0	<1	<0.1	14.4	16	<1

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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
*Std MMISRM24	6	1.9	4.5	3	<0.1	11.2	15	<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 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
343545	1.7	700	3	2.6	109	111	2.2	150
343546	1.4	2200	<2	1.7	104	68	2.2	255
343547	1.5	900	<2	2.3	66	43	1.5	431
343548	5.4	2800	3	5.2	81	107	3.5	255
343549	1.0	1300	3	3.1	127	65	2.4	397
343550	3.0	3500	3	8.2	11	64	4.9	1170
343551	1.7	1000	<2	2.4	20	92	3.1	211
343552	1.3	2200	2	2.2	94	84	2.1	253
343553	3.0	2700	3	3.0	90	87	3.3	817
343554	13.6	1300	<2	1.3	101	34	0.4	193
343555	2.5	600	3	7.0	51	91	2.2	946
343556	2.2	1100	<2	1.8	40	77	0.7	384
343557	1.5	1300	4	2.3	62	78	1.5	638
343558	14.8	1700	4	4.2	54	62	0.7	310
343559	13.9	5800	3	3.0	351	77	0.9	259
343560	5.8	1600	3	3.6	304	34	0.9	180
343561	9.3	2500	<2	1.8	72	54	0.7	116
343562	1.7	1400	2	0.9	21	142	2.8	548
343563	19.7	2000	4	3.5	24	158	2.0	754
343564	6.4	1900	<2	<0.5	24	91	0.5	571
343565	<0.5	6800	<2	<0.5	417	36	<0.1	125
343566	29.2	3900	<2	0.8	74	145	1.3	126
343567	0.9	1000	<2	<0.5	461	20	0.5	225
343568	3.5	1200	2	1.3	53	128	1.5	563
343569	9.0	900	<2	0.7	30	87	0.6	339
343570	14.4	1000	<2	1.0	14	182	2.4	216
343571	3.3	1500	2	<0.5	30	230	2.0	74
343572	2.7	4300	<2	1.0	145	72	0.9	272
343573	14.8	1500	<2	0.9	16	135	2.1	2410
343574	1.9	900	<2	0.6	21	99	1.4	503
343575	9.0	3900	<2	2.1	16	115	1.7	1300
343576	4.4	2100	<2	1.3	180	151	1.4	246
343577	4.9	700	3	4.3	392	91	1.0	475
343578	3.2	1000	<2	2.8	111	95	1.5	1190
343579	4.2	2000	2	2.9	114	126	1.7	395
343580	10.8	900	4	1.4	21	211	2.0	355
343581	4.5	200	4	1.1	29	965	1.5	70
343582	34.4	5100	<2	0.9	33	150	0.8	188
343583	21.4	5900	3	2.8	88	358	1.4	514
343584	2.6	900	<2	1.1	65	133	1.0	321

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Element Method Det.Lim. Units	Mg GE_MMI_M 0.5 ppm	Mn GE_MMI_M 100 ppb	Mo GE_MMI_M 2 ppb	Nb GE_MMI_M 0.5 ppb	Nd GE_MMI_M 1 ppb	Ni GE_MMI_M 5 ppb	P GE_MMI_M 0.1 ppm	Pb GE_MMI_M 5 ppb
343585	2.6	2600	<2	0.7	40	189	1.5	561
343586	7.0	6000	2	<0.5	19	242	2.4	1190
343587	5.9	4600	<2	0.6	24	319	2.4	567
343588	4.1	2600	<2	1.2	39	84	1.2	227
343589	4.4	600	<2	2.2	35	129	1.3	479
343590	10.0	3700	3	2.2	32	289	1.6	346
343591	5.8	1900	2	<0.5	29	155	1.7	644
343592	9.2	1700	2	2.1	20	115	1.6	901
343593	4.7	1900	<2	<0.5	20	49	0.3	272
343594	1.8	2000	<2	3.9	53	135	2.7	153
343595	1.4	1800	2	1.9	353	71	2.0	114
343596	3.4	6300	2	1.3	44	113	2.0	38
343597	2.4	1100	<2	1.9	53	84	1.8	300
343598	6.4	2100	<2	<0.5	23	157	1.4	56
343599	2.7	3300	<2	<0.5	72	76	1.2	82
343600	0.9	500	3	1.1	83	55	1.3	77
343601	4.5	1900	<2	<0.5	10	43	<0.1	56
343602	6.7	1700	<2	<0.5	15	106	0.5	310
343603	2.6	900	<2	<0.5	158	47	0.5	118
343604	12.5	1700	<2	1.3	152	87	2.7	270
343605	18.4	3900	<2	<0.5	199	110	0.2	68
343606	13.9	3000	4	3.1	22	63	2.6	475
343607	11.0	34200	5	2.9	20	194	1.5	38
343608	6.7	500	2	1.2	3	104	1.6	9
343609	2.7	<100	<2	1.3	8	90	1.5	18
343610	4.0	1400	<2	1.6	83	87	2.0	305
343611	7.9	300	2	7.5	21	60	2.2	691
343612	3.1	300	<2	5.0	47	74	1.2	530
343613	1.6	600	<2	1.1	99	100	1.1	322
343614	2.4	1800	<2	1.4	47	203	1.7	270
343615	5.3	2000	2	0.5	36	136	1.7	255
343616	1.8	1900	<2	0.7	67	50	1.1	219
343617	4.8	900	2	6.2	70	81	2.3	393
343618	2.3	400	3	7.0	71	95	2.3	164
343619	9.7	2400	<2	<0.5	12	204	0.9	568
343620	0.7	900	2	0.7	44	51	2.4	290
343621	1.9	1300	<2	1.6	113	71	1.8	279
*Rep 343556	2.1	900	<2	1.7	39	71	0.7	319
*Rep 343572	2.4	4600	<2	1.1	137	71	0.8	225
*Rep 343593	4.5	1900	<2	<0.5	17	56	0.2	294

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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
*Std MMISRM24	11.3	200	20	<0.5	22	98	0.4	196
*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
*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
343545	<1	25.5	<0.1	131	1.2	23	23	<1
343546	<1	23.4	<0.1	108	1.2	33	25	<1
343547	<1	14.0	<0.1	116	0.6	35	16	<1
343548	<1	19.8	<0.1	120	1.7	29	18	1
343549	<1	29.8	<0.1	99	1.1	29	26	<1
343550	<1	2.3	<0.1	99	1.4	37	3	3
343551	<1	4.4	<0.1	106	1.0	19	5	<1
343552	<1	21.5	<0.1	128	0.6	27	20	<1
343553	<1	21.3	<0.1	164	1.9	26	19	2
343554	<1	21.7	<0.1	82	0.8	16	23	<1
343555	<1	10.9	<0.1	102	1.2	28	12	2
343556	<1	8.6	<0.1	137	0.6	16	10	<1
343557	<1	13.7	<0.1	266	1.4	25	16	<1
343558	<1	13.1	<0.1	110	0.8	14	11	1
343559	<1	80.8	<0.1	184	0.9	48	68	<1
343560	<1	73.3	<0.1	227	0.6	46	62	<1
343561	<1	16.4	<0.1	205	<0.5	16	15	<1
343562	<1	4.5	<0.1	138	1.2	38	5	<1
343563	<1	5.3	<0.1	277	2.3	32	6	2
343564	<1	5.4	<0.1	190	0.6	11	5	<1
343565	<1	89.5	<0.1	122	<0.5	64	78	<1
343566	<1	17.1	<0.1	307	0.8	44	15	<1
343567	<1	108	<0.1	96	<0.5	51	86	<1
343568	<1	11.5	<0.1	88	0.7	36	12	<1
343569	<1	6.6	<0.1	110	0.8	30	6	<1
343570	<1	3.0	<0.1	124	0.7	18	3	<1
343571	<1	6.4	<0.1	75	0.7	18	6	<1
343572	<1	33.3	<0.1	66	<0.5	20	29	<1
343573	<1	3.6	<0.1	82	0.5	24	4	<1
343574	<1	4.5	<0.1	74	<0.5	16	5	<1
343575	<1	3.2	<0.1	164	0.6	32	5	1
343576	<1	43.2	<0.1	152	<0.5	37	36	<1
343577	<1	94.5	<0.1	107	0.9	37	74	<1
343578	<1	25.4	<0.1	167	1.0	24	24	<1
343579	<1	25.1	<0.1	127	0.7	37	28	1
343580	<1	5.1	<0.1	137	0.6	41	5	<1
343581	<1	6.3	<0.1	117	0.8	30	6	1
343582	<1	6.7	<0.1	497	0.7	15	8	<1
343583	<1	20.9	<0.1	310	1.1	88	18	1
343584	<1	14.7	<0.1	179	1.0	24	14	<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
343585	<1	8.7	<0.1	163	0.6	18	9	<1
343586	<1	4.2	<0.1	267	1.1	24	4	<1
343587	<1	5.2	<0.1	131	1.2	33	6	<1
343588	<1	8.8	<0.1	182	0.7	18	9	<1
343589	<1	7.8	<0.1	121	<0.5	20	8	<1
343590	<1	7.0	<0.1	383	0.9	22	8	<1
343591	<1	6.5	<0.1	286	0.5	21	7	<1
343592	<1	4.3	<0.1	169	0.9	16	5	<1
343593	<1	4.6	<0.1	237	<0.5	14	4	<1
343594	<1	12.8	<0.1	93	<0.5	28	12	<1
343595	<1	87.6	<0.1	102	<0.5	45	68	<1
343596	<1	10.9	<0.1	131	0.7	22	10	<1
343597	<1	11.1	<0.1	106	<0.5	17	12	<1
343598	<1	5.2	<0.1	359	<0.5	12	5	<1
343599	<1	15.7	<0.1	390	<0.5	35	15	<1
343600	<1	19.6	<0.1	205	0.7	20	22	<1
343601	<1	2.0	<0.1	99	<0.5	10	2	<1
343602	<1	3.0	<0.1	205	<0.5	8	3	<1
343603	<1	38.8	<0.1	139	<0.5	24	35	<1
343604	<1	33.7	<0.1	112	0.8	22	31	<1
343605	<1	35.2	<0.1	207	<0.5	12	51	<1
343606	<1	5.2	<0.1	227	1.6	22	5	1
343607	<1	4.8	<0.1	258	1.6	24	4	<1
343608	<1	0.6	<0.1	104	<0.5	18	<1	<1
343609	<1	1.9	<0.1	79	0.7	12	1	<1
343610	<1	17.9	<0.1	88	<0.5	23	18	<1
343611	<1	4.3	<0.1	65	<0.5	32	5	2
343612	<1	11.0	<0.1	72	0.5	43	10	1
343613	<1	21.5	<0.1	136	<0.5	26	21	<1
343614	<1	10.1	<0.1	154	<0.5	32	10	<1
343615	<1	8.2	<0.1	200	0.8	27	8	<1
343616	<1	14.6	<0.1	149	<0.5	21	14	<1
343617	<1	16.0	<0.1	123	<0.5	36	15	1
343618	<1	17.0	<0.1	78	<0.5	44	14	1
343619	<1	2.5	<0.1	200	<0.5	12	2	<1
343620	<1	9.8	<0.1	43	<0.5	33	10	<1
343621	<1	27.0	<0.1	117	<0.5	23	24	<1
*Rep 343556	<1	8.5	<0.1	131	0.5	16	10	<1
*Rep 343572	<1	31.3	<0.1	66	<0.5	19	27	<1
*Rep 343593	<1	3.8	<0.1	258	<0.5	13	4	<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
*Std MMISRM24	5	5.3	2.4	125	<0.5	6	5	<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	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 ppb	1 ppb	0.1 ppb	10 ppb	0.5 ppb	10 ppb	0.1 ppb	0.5 ppb
343545	70	<1	4.0	<10	17.9	920	0.5	30.5
343546	30	<1	4.2	<10	21.8	460	0.4	12.2
343547	40	<1	3.6	<10	13.5	670	0.5	11.8
343548	130	<1	2.9	<10	19.0	1380	1.1	5.6
343549	20	<1	4.4	<10	17.6	870	0.6	18.0
343550	90	<1	0.9	<10	15.0	2920	0.9	3.5
343551	50	<1	1.1	<10	9.6	580	0.5	5.2
343552	40	<1	3.5	<10	25.8	610	0.5	9.7
343553	80	<1	3.2	<10	20.8	940	1.1	7.1
343554	240	<1	3.5	<10	8.6	340	0.5	6.9
343555	70	<1	2.5	<10	11.5	1920	0.5	4.1
343556	190	<1	1.9	<10	9.2	590	0.5	5.9
343557	180	<1	3.1	<10	15.0	540	0.9	7.8
343558	550	<1	1.4	<10	6.1	1180	0.4	2.6
343559	460	<1	8.1	<10	30.4	800	1.2	18.4
343560	250	<1	8.1	<10	32.2	950	1.0	37.3
343561	230	<1	2.4	<10	16.8	550	1.6	7.0
343562	30	<1	1.1	<10	5.5	710	0.9	1.8
343563	350	<1	0.9	<10	4.4	4790	0.8	1.8
343564	160	<1	0.8	<10	4.8	260	1.4	3.0
343565	10	<1	11.4	<10	5.9	10	2.8	14.6
343566	380	<1	2.3	<10	10.4	650	1.3	3.4
343567	30	<1	10.7	<10	12.9	160	1.2	9.9
343568	60	<1	2.3	<10	5.1	820	1.3	3.0
343569	220	<1	0.8	<10	3.4	740	0.8	2.1
343570	190	<1	0.7	<10	4.4	590	0.8	1.6
343571	120	<1	1.0	<10	7.6	280	0.7	4.6
343572	70	<1	3.6	<10	8.2	400	1.0	4.1
343573	220	<1	0.7	<10	6.2	1020	0.7	2.3
343574	30	<1	0.9	<10	5.4	350	1.1	2.1
343575	110	<1	1.1	<10	8.2	1010	1.2	2.4
343576	100	<1	5.4	<10	33.1	440	1.0	22.2
343577	160	<1	9.1	<10	14.5	1310	1.7	7.5
343578	110	<1	2.4	<10	14.2	1190	1.1	3.4
343579	100	<1	5.1	<10	27.7	1070	1.5	80.2
343580	160	<1	1.2	<10	5.9	1170	2.0	2.9
343581	140	<1	0.9	<10	6.6	660	2.7	8.2
343582	480	<1	1.4	<10	11.7	840	2.4	4.1
343583	190	<1	3.0	<10	16.7	2840	1.5	3.8
343584	60	<1	2.4	<10	19.6	430	1.2	7.3

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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
343585	120	<1	1.9	<10	16.0	300	1.0	5.8
343586	200	<1	0.7	<10	7.3	520	1.1	2.2
343587	210	<1	0.9	<10	6.3	830	1.0	3.1
343588	130	<1	1.6	<10	13.2	420	1.3	4.2
343589	80	<1	1.5	<10	6.5	850	0.9	2.3
343590	120	<1	1.2	<10	9.9	1090	1.2	2.8
343591	130	<1	1.2	<10	5.5	320	1.7	2.1
343592	160	<1	0.9	<10	8.2	790	1.1	2.5
343593	110	<1	0.5	<10	2.6	90	1.8	1.4
343594	50	<1	1.9	<10	16.0	1320	0.6	4.5
343595	40	<1	8.6	<10	22.8	510	0.8	14.5
343596	60	<1	1.9	<10	6.8	550	1.3	4.6
343597	50	<1	2.1	<10	8.3	630	0.6	3.6
343598	130	<1	0.8	<10	2.2	130	0.9	1.1
343599	70	<1	2.3	<10	5.8	310	1.4	2.5
343600	110	<1	4.3	<10	23.9	310	0.9	14.6
343601	270	<1	0.3	<10	0.8	10	0.7	2.5
343602	270	<1	0.6	<10	2.3	50	1.5	2.2
343603	110	<1	5.4	<10	26.4	180	0.9	17.1
343604	200	<1	3.9	<10	42.4	790	1.0	8.4
343605	1100	<1	6.5	<10	3.7	10	0.9	18.2
343606	390	<1	0.6	<10	3.6	1830	0.7	1.8
343607	500	<1	0.5	<10	4.8	1460	1.3	4.9
343608	110	<1	<0.1	<10	2.5	1110	0.7	1.7
343609	90	<1	0.2	<10	3.4	540	1.1	2.7
343610	80	<1	3.4	<10	15.2	640	1.4	6.1
343611	260	<1	1.0	<10	6.6	2220	0.5	2.1
343612	70	<1	2.1	<10	9.6	1670	0.8	4.4
343613	40	<1	3.5	<10	13.8	360	0.8	6.1
343614	30	<1	1.7	<10	8.7	630	1.2	4.0
343615	80	<1	1.3	<10	6.5	390	1.5	2.3
343616	40	<1	2.4	<10	8.2	280	0.6	8.3
343617	110	<1	2.7	<10	12.6	1930	0.9	3.8
343618	30	<1	2.2	<10	18.0	2210	1.2	5.9
343619	250	<1	0.4	<10	2.3	170	0.5	1.3
343620	10	<1	2.0	<10	12.0	270	0.5	8.9
343621	40	<1	4.0	<10	26.2	500	0.9	13.2
*Rep 343556	180	<1	2.0	<10	8.7	550	0.5	5.7
*Rep 343572	60	<1	3.2	<10	7.4	410	1.0	3.6
*Rep 343593	120	<1	0.5	<10	2.4	70	1.6	1.4

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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
*Std MMISRM24	1430	<1	0.5	<10	12.6	30	0.2	7.2
*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
*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
343545	<0.5	98	7.3	2480	10
343546	<0.5	144	11.9	520	13
343547	<0.5	147	13.2	780	12
343548	0.7	104	7.2	1690	18
343549	<0.5	133	10.3	1170	14
343550	1.2	48	7.1	3750	22
343551	<0.5	42	3.8	4220	10
343552	<0.5	110	8.0	590	18
343553	0.7	111	7.3	1200	18
343554	<0.5	113	8.9	120	7
343555	0.6	93	7.8	610	16
343556	<0.5	71	5.6	1120	7
343557	<0.5	99	9.2	690	15
343558	<0.5	48	3.0	460	9
343559	0.6	228	15.9	690	19
343560	0.6	207	15.6	350	22
343561	0.6	71	6.0	360	9
343562	<0.5	42	3.6	2190	10
343563	1.0	31	2.7	1960	10
343564	<0.5	22	1.6	760	5
343565	<0.5	497	39.3	70	2
343566	<0.5	76	5.8	330	7
343567	<0.5	347	25.4	220	8
343568	<0.5	84	7.0	1990	11
343569	<0.5	29	2.2	820	8
343570	<0.5	23	1.7	4660	6
343571	<0.5	30	2.4	4380	6
343572	<0.5	112	6.6	420	7
343573	<0.5	24	2.0	6650	6
343574	<0.5	32	2.7	4360	7
343575	<0.5	46	4.2	7600	11
343576	<0.5	127	9.1	1110	16
343577	<0.5	259	15.2	770	16
343578	<0.5	65	5.1	1220	13
343579	0.5	157	14.4	900	13
343580	<0.5	44	3.6	4440	11
343581	<0.5	34	3.2	670	6
343582	<0.5	49	3.3	900	7
343583	<0.5	104	7.9	4930	17
343584	<0.5	73	4.8	930	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
343585	<0.5	61	4.6	2380	10
343586	<0.5	29	2.5	3930	11
343587	<0.5	38	3.5	6390	11
343588	<0.5	52	4.0	1020	9
343589	<0.5	48	3.7	1130	8
343590	<0.5	40	3.3	3890	12
343591	<0.5	38	3.0	1220	7
343592	<0.5	33	2.8	6720	9
343593	<0.5	25	2.3	230	3
343594	0.5	54	4.2	1400	17
343595	0.6	239	18.5	800	15
343596	<0.5	56	4.9	860	6
343597	<0.5	70	5.4	3560	7
343598	<0.5	33	2.4	370	3
343599	<0.5	89	7.6	350	5
343600	<0.5	95	8.3	280	14
343601	<0.5	14	1.4	160	<2
343602	<0.5	24	1.6	740	<2
343603	<0.5	131	9.8	380	12
343604	<0.5	86	5.6	2880	8
343605	<0.5	250	16.0	800	2
343606	0.6	18	1.5	1770	10
343607	0.5	16	1.6	1200	14
343608	<0.5	4	0.4	310	9
343609	<0.5	7	0.6	390	6
343610	<0.5	110	9.0	4030	10
343611	0.6	36	4.1	2020	11
343612	<0.5	80	9.6	1190	15
343613	<0.5	125	9.4	690	8
343614	<0.5	65	5.5	3360	10
343615	<0.5	45	2.9	1250	8
343616	<0.5	86	5.4	570	10
343617	0.6	103	7.5	3040	17
343618	0.6	80	6.5	690	23
343619	<0.5	15	1.0	1140	3
343620	<0.5	56	5.2	2050	13
343621	0.7	115	8.7	2140	14
*Rep 343556	<0.5	74	5.4	980	7
*Rep 343572	<0.5	99	6.0	380	7
*Rep 343593	<0.5	25	2.2	290	3

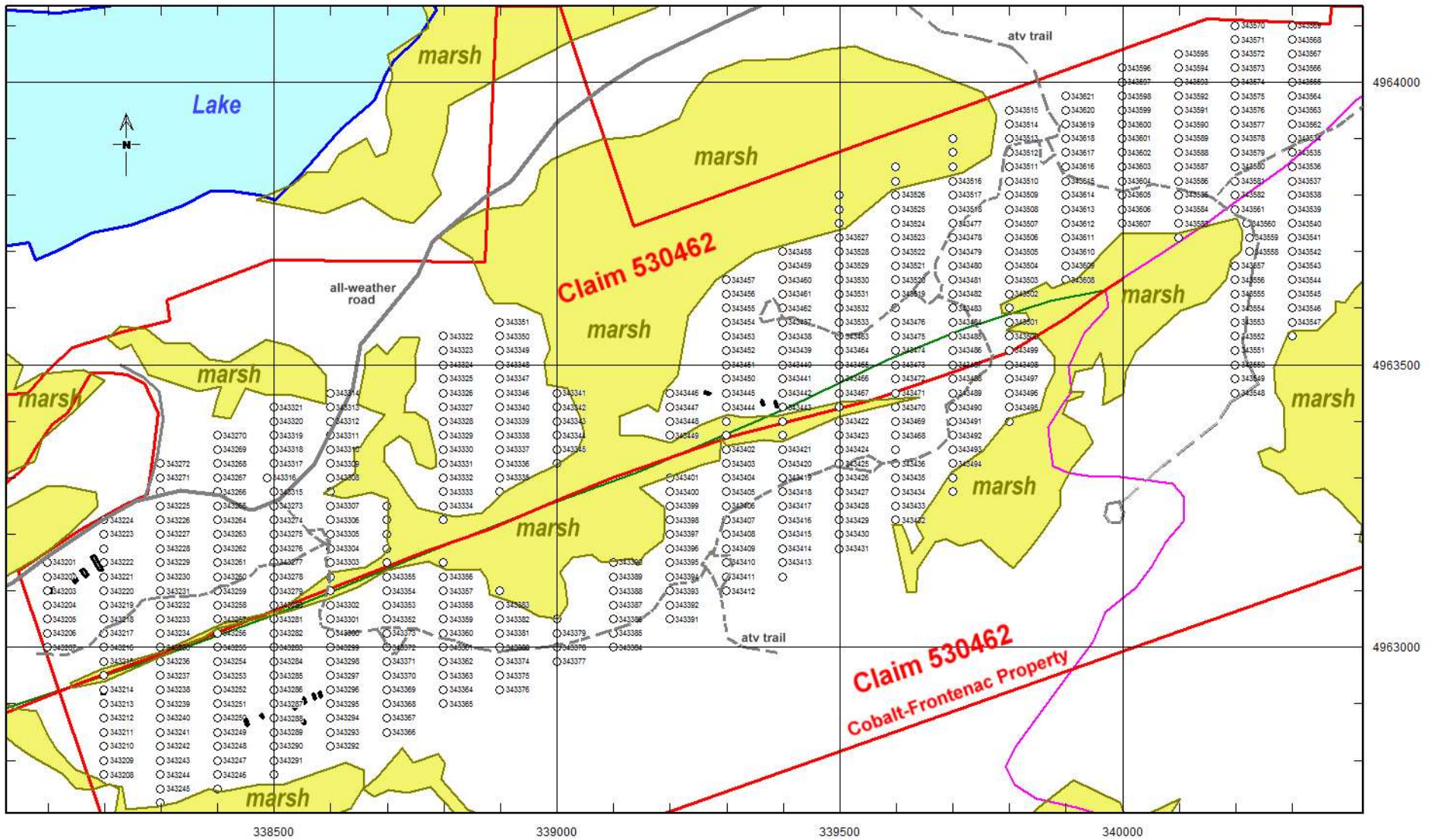
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Element	W	Y	Yb	Zn	Zr
Method	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M	GE_MMI_M
Det.Lim.	0.5	1	0.2	10	2
Units	ppb	ppb	ppb	ppb	ppb
*Std MMISRM24	<0.5	19	0.8	170	19
*Blk BLANK	<0.5	<1	<0.2	<10	<2
*Blk BLANK	<0.5	<1	<0.2	<10	<2
*Blk BLANK	<0.5	<1	<0.2	<10	<2

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**Cobalt-Frontenac Property
MMI Sample Locations**