REPORT

of the

2009 GEOCHEMICALSURVEY

on

GOLDEN CHALICE RESOURCES

PENHORWOOD PROPERTY
PORCUPINE MINING DIVISION,
NORTHEASTERN ONTARIO

November 17, 2009

J Kevin Montgomery, P. Geo.

SUMMARY

The Penhorwood Property, held by Golden Chalice Resources, is situated 80 km southwest of Timmins, Ontario. It is comprised of 52 unpatented mining claims (10,335 hectares) in Penhorwood Township and Kenogaming Township. It forms part of Golden Chalice Resources Timmins West Project.

In 2009, a geochemical survey was conducted, on the Penhorwood Property, to evaluate a long quartz porphyry body for gold or base metal mineralization potential. Soil samples were collected from 160 sites. Three types of geochemical analysis consisting of soil geochemical, soil gas hydrocarbon (SGH) and metal mobile ion (MMI) were conducted on separate samples from each site.

The interpretation of the SGH survey results has outlined an east-west trending REDOX cell in the survey area. The MMI-M survey has delineated four distinctive MMI-M anomalies that are both multi-element and multi-sample in nature. The soil geochemical survey was successful in outlining a gold anomaly, a copper anomaly, four zinc anomalies and two nickel anomalies. A comparison of the anomalies outlined in the interpretations of the SGH, MMI and soil survey results has found two coinciding anomalies. The MMI Ni-Co-Ni/Cr with Ca, Ce and Mg anomaly (Lines 6+00E through 8+00E) coincides with the central Ni soil anomaly. The MMI Cu-Ca-Mg-Sr anomaly (Lines 16+00E through 20+00E) coincides exactly with the copper soil anomaly in the east central portion of the survey area.

The next recommended phase of exploration should be geological mapping of the flagged grid, to ascertain if there is bedrock exposure on or near the anomalies outlined by the geochemical survey. Ground geophysical surveys (magnetic, electromagnetic and induce polarization) should also be considered over the area of the geochemical survey.

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INTRODUCTION

The Radio Hill Property and the Penhorwood Property form the Timmins West Project of Golden Chalice Resources Inc. The Penhorwood Property is comprised of 52 contiguous unpatented mining claims (638 claim units) covering approximately 10,335 hectares in Penhorwood and Kenogaming Townships. The property is held 100% by Golden Chalice Resources.

Exploration work in 2009 consisted of a mechanical overburden stripping program and a geochemical survey. The mechanical stripping program in the northeast corner of the property was conducted to ascertain whether or not a large quartz-feldspar porphyry or syenite porphyry body occurred on claim 4221929 (Montgomery, 2009). The geochemical survey was conducted to evaluate a long quartz porphyry body for gold or base metal mineralization potential. This quartz porphyry body is about 2.4 km long and up to 300 m wide. It occurs on the eastern edge of a large ultramafic complex within the western Destor Porcupine Fault corridor, in the northeast central portion of the property.

This report describes the 2009 geochemical survey that covered the quartz porphyry. The geochemical field work occurred from October 17 to November 1, 2009.

LOCATION, ACCESS and CLAIMS

The Penhorwood Property, held by Golden Chalice Resources is located 80 kilometres southwest of Timmins, Ontario (Figure 1). It is comprised of 52 mining claims (638 claim units totalling about 10,335 hectares) that covers northeast and central Penhorwood Township, as well as the west central portion of Kenogaming Township.

Table 1 Penhorwood Property Claims

Claim	Units	Due_Date	Date_Recorded	Work_Req	Township
4221929	12	24-Oct-10	03-Aug-07	$4,800.00	KENOGAMING
3019487	10	19-Nov-09	19-Nov-07	$4,000.00	PENHORWOOD
3019491	15	19-Nov-09	19-Nov-07	$6,000.00	PENHORWOOD
4227175	3	19-Nov-09	19-Nov-07	$1,200.00	PENHORWOOD
4207062	16	25-Nov-09	07-Jun-05	$6,400.00	PENHORWOOD
4207045	16	25-Nov-09	07-Jun-05	$1,414.00	KENOGAMING
4207046	16	25-Nov-09	07-Jun-05	$6,400.00	PENHORWOOD
4207047	16	25-Nov-09	07-Jun-05	$6,400.00	PENHORWOOD
4207060	14	25-Nov-09	07-Jun-05	$3,728.00	PENHORWOOD
4207061	16	25-Nov-09	07-Jun-05	$6,400.00	PENHORWOOD
4207048	16	25-Nov-09	07-Jun-05	$6,400.00	PENHORWOOD

3019488	16	18-Dec-09	18-Dec-07	$6,400.00	PENHORWOOD
3019490	15	18-Dec-09	18-Dec-07	$6,000.00	PENHORWOOD
3000605	1	2-Jan-10	02-Jan-04	$400.00	PENHORWOOD
4201493	8	23-Mar-10	23-Mar-06	$3,200.00	PENHORWOOD
4201492	16	23-Mar-10	23-Mar-06	$6,400.00	PENHORWOOD
4201491	12	5-Apr-10	05-Apr-06	$4,800.00	KENOGAMING
4201490	16	5-Apr-10	05-Apr-06	$6,400.00	KENOGAMING
4201489	16	5-Apr-10	05-Apr-06	$6,400.00	KENOGAMING
4201488	9	5-Apr-10	05-Apr-06	$3,600.00	KENOGAMING
3019024	2	24-Apr-10	24-Apr-06	$800.00	PENHORWOOD
4220806	4	30-Apr-10	30-Apr-07	$1,600.00	PENHORWOOD
4207035	1	7-Jun-10	07-Jun-05	$400.00	PENHORWOOD
4207042	16	7-Jun-10	07-Jun-05	$6,400.00	PENHORWOOD
4207041	16	7-Jun-10	07-Jun-05	$6,400.00	PENHORWOOD
4207040	15	7-Jun-10	07-Jun-05	$6,000.00	PENHORWOOD
4207039	4	7-Jun-10	07-Jun-05	$1,600.00	KENOGAMING
4207032	16	7-Jun-10	07-Jun-05	$6,400.00	PENHORWOOD
4207036	16	7-Jun-10	07-Jun-05	$6,400.00	PENHORWOOD
4207034	16	7-Jun-10	07-Jun-05	$6,400.00	PENHORWOOD
4207033	16	7-Jun-10	07-Jun-05	$6,400.00	PENHORWOOD
4207043	16	7-Jun-10	07-Jun-05	$6,400.00	PENHORWOOD
4207031	16	7-Jun-10	07-Jun-05	$6,400.00	KENOGAMING
4207030	12	7-Jun-10	07-Jun-05	$4,800.00	PENHORWOOD
4207037	10	7-Jun-10	07-Jun-05	$4,000.00	PENHORWOOD
4207064	6	7-Jun-10	07-Jun-05	$2,400.00	KENOGAMING
4207049	16	7-Jun-10	07-Jun-05	$6,400.00	PENHORWOOD
4207914	9	7-Jun-10	07-Jun-05	$3,600.00	PENHORWOOD
4207044	16	7-Jun-10	07-Jun-05	$6,400.00	PENHORWOOD
4207058	12	7-Jun-10	07-Jun-05	$4,800.00	PENHORWOOD
4207057	1	7-Jun-10	07-Jun-05	$400.00	PENHORWOOD
4207056	16	7-Jun-10	07-Jun-05	$6,400.00	PENHORWOOD
4207054	16	7-Jun-10	07-Jun-05	$6,400.00	PENHORWOOD
4207053	16	7-Jun-10	07-Jun-05	$6,400.00	PENHORWOOD
4207051	16	7-Jun-10	07-Jun-05	$6,400.00	KENOGAMING
4207050	16	7-Jun-10	07-Jun-05	$6,400.00	PENHORWOOD
4207055	16	7-Jun-10	07-Jun-05	$6,400.00	PENHORWOOD
4207916	15	7-Jun-10	07-Jun-05	$6,000.00	PENHORWOOD
4241832	12	11-Jul-10	11-Jul-08	$4,800.00	PENHORWOOD
3000603	2	15-Oct-10	15-Oct-03	$800.00	PENHORWOOD
3000604	2	15-Oct-10	15-Oct-03	$800.00	PENHORWOOD
4207052	16	7-Jun-11	07-Jun-05	$6,400.00	PENHORWOOD

The property is readily accessed by motor vehicle from Highway 101 West, The main

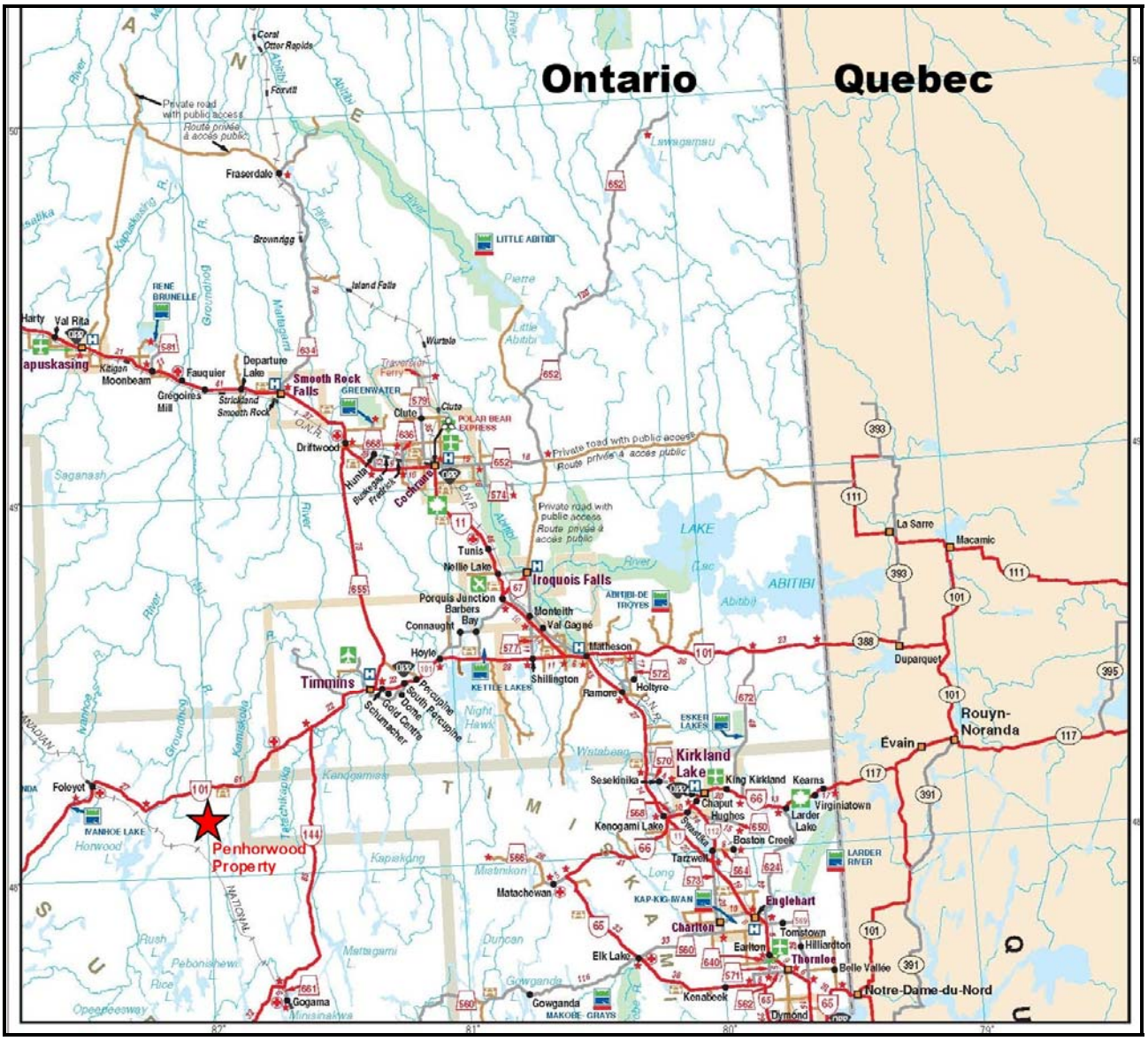

Figure 1 Location Map

Kenogaming Timber Road cuts through the eastern portion of the property, Further to the west; a second main gravel road off Highway 101 gives access to the northwest portion of the property. A network of ATV and 4x4 truck trails off these two main gravel roads give further access to the property.

The geochemical survey grid area is easily accessible, as the Kenogaming Timber Road cuts through it. The eastern edge of the grid is 12.5 km west of the intersection of Highway 101 West and the Kenogaming Timber Road.

PROPERTY GEOLOGY

The property lies within the Superior Province of Archean basement rocks, in the Eastern Canadian Shield. It is situated in the northeastern part of the Swayze Greenstone belt which appears to be the western extension of the Abitibi Greenstone belt.

The property is predominantly underlain by southwest trending metamorphosed (greenschist) volcanics of the Muskego-Reeves Assemblage ranging from ultramafic to felsic. The mafic volcanics are pillowed to massive andesitic or basaltic flows. They are the dominant rock type on the property. Ultramafic volcanic flow units and/or intusive sills trending east-west occur in the central portion of the property. They are intermixed with the mafic volcanics.

The east central portion of the property is underlain by felsic volcanics of the Hanrahan Lake Complex that extend west from Kenogaming Township. The felsic volcanics are comprised of tuffs, lapilli tuffs, agglomerates and intermediate to felsic flows. They form the core of a major northwest plunging antiform fold. A fairly continuous iron formation known as the Nat River iron formation marks the boundary between the felsic volcanics and the mafic volcanics.

In the northwest portion of the property metasediments occur. These consist of greywackes and conglomerates. The north centre part of the property is underlain by north-south trending ultramafic, mafic and felsic porphyry intrusive units that may be part of a layered complex. These intrusive units are interpreted to be sliced up by a series of northeast trending faults. In the southwest the Kukatush Stock (Biotite hornblende granodorite) intrudes the volcanics and in the southeast the Kenogamissi Batholith (hornblende and/or biotite bearing granodiorite to tonalite gneiss). Smaller quartz-feldspar and feldspar porphyry intrusive bodies also occur on the property. All the rock types are intruded by late north to north-northwest trending diabase dykes (Figure 2).

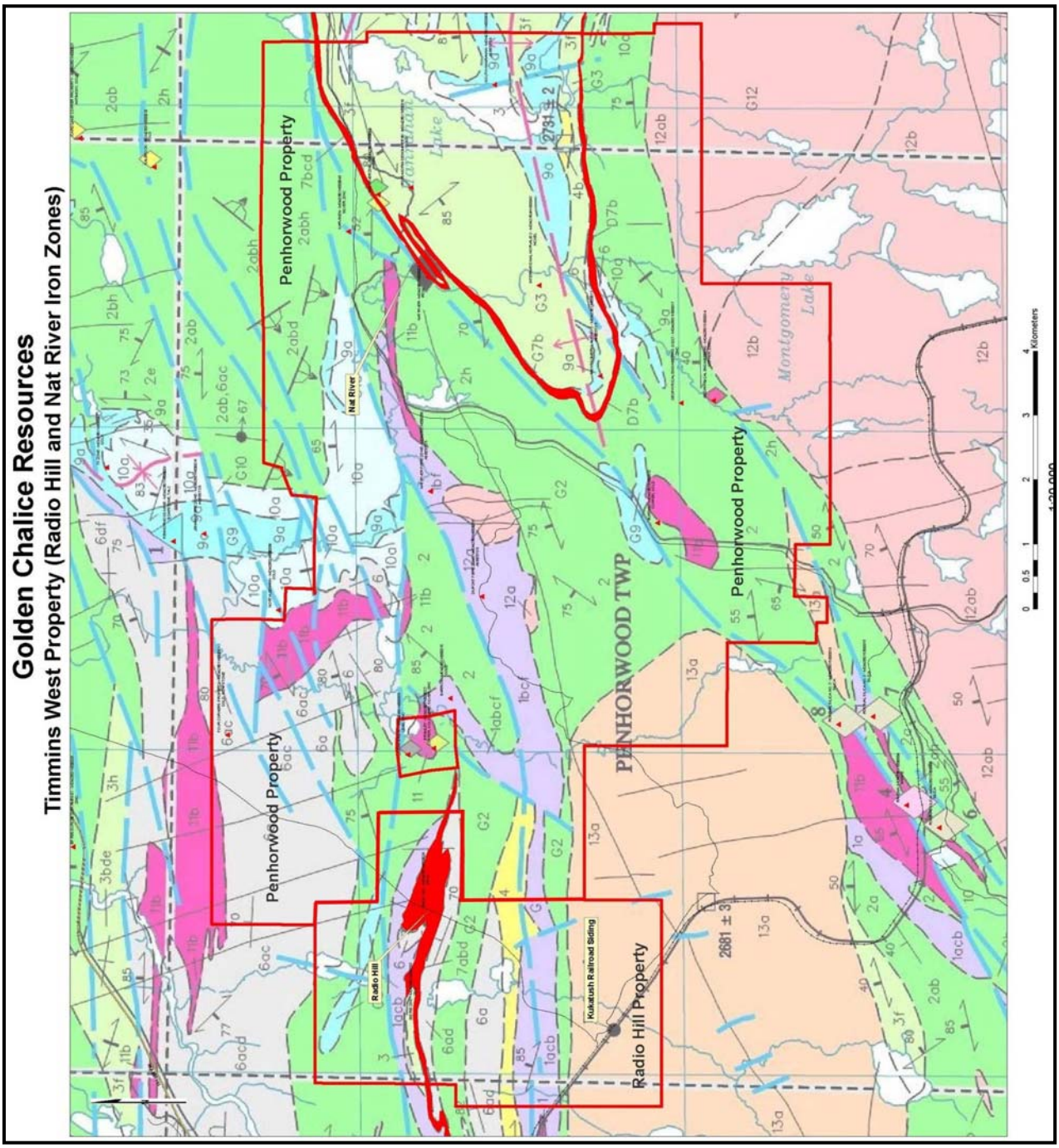

Figure 2 Timmins West Project Geology Map

Three major faults cross cut the property, the east-west trending Destor-Porcupine, the east-west trending Jehann Lake Fault and the southwest trending Hardiman Bay Fault.

GEOCHEMICAL SURVEY METHODOLOGY

Similar to dissolved solids in water, gases may migrate by diffusion through air or water, or advectively, as a result of the movement of a mass of air or water containing the gases. For gases, as for dissolved solids in water, advective flow is a far more rapid transport mechanism than diffusion. Organic gases are absorbed on clay minerals. By desorbing these gases, then measuring their relative abundance, clues may be obtained to buried deposits. This is the basis of the SGH (Soil Gas Hydrocarbons) technique of Actlabs (Cameron, 2004). It is an extractive procedure which releases organic compounds adsorbed on B- horizon soil samples. The SGH procedure provides a highly focused and sensitive method which measures compounds in the C5-C17 range down to the low parts-per-trillion (ppt).

The MMI soil sampling technique is based on the vertical ascension of ions from an oxidizing ore body. This vertical ascension is rapid in geological time and the ions are "loosely attached" to soil particles. Capillary rise and evaporation processes play an important part in locating an active anomaly just below the soil surface. This produces sharp anomalies in surface soils vertically above an ore body. The ions principally attach on to clays, iron oxides and organic matter. Background noise is reduced by the partial extraction geochemical analysis method which precludes ions that have been bound into soil particles and mechanically dispersed across the surface.

MMI soil sampling is conducted at a fixed depth of 10 to 25 cm below the interface of the leaf/twig litter layer and the inorganic soil layer. The sample should be taken as a continuous 15 cm plug. In boreal forest terrain dead organic matter is removed prior to taking the sample. Typically a 300-400 gram sample of either A or B horizon soil is collected at a site.

GEOCHEMICAL FIELD SAMPLING DESCRIPTION

The Penhorwood Property geochemical survey consisted of three samples collected at 160 sample sites by True North Mineral Laboratories personnel from October 17 to November 1, 2009. At each site the following three sample types were collected soil, SGH soil and MMI soil. The sampling was conducted over 14 lines that were spaced 200 m apart (see Figure 3). Samples along the north-south flagged lines were collected every 50 m (see Map 1). The 14 flagged lines total approximately 7.3 line km.

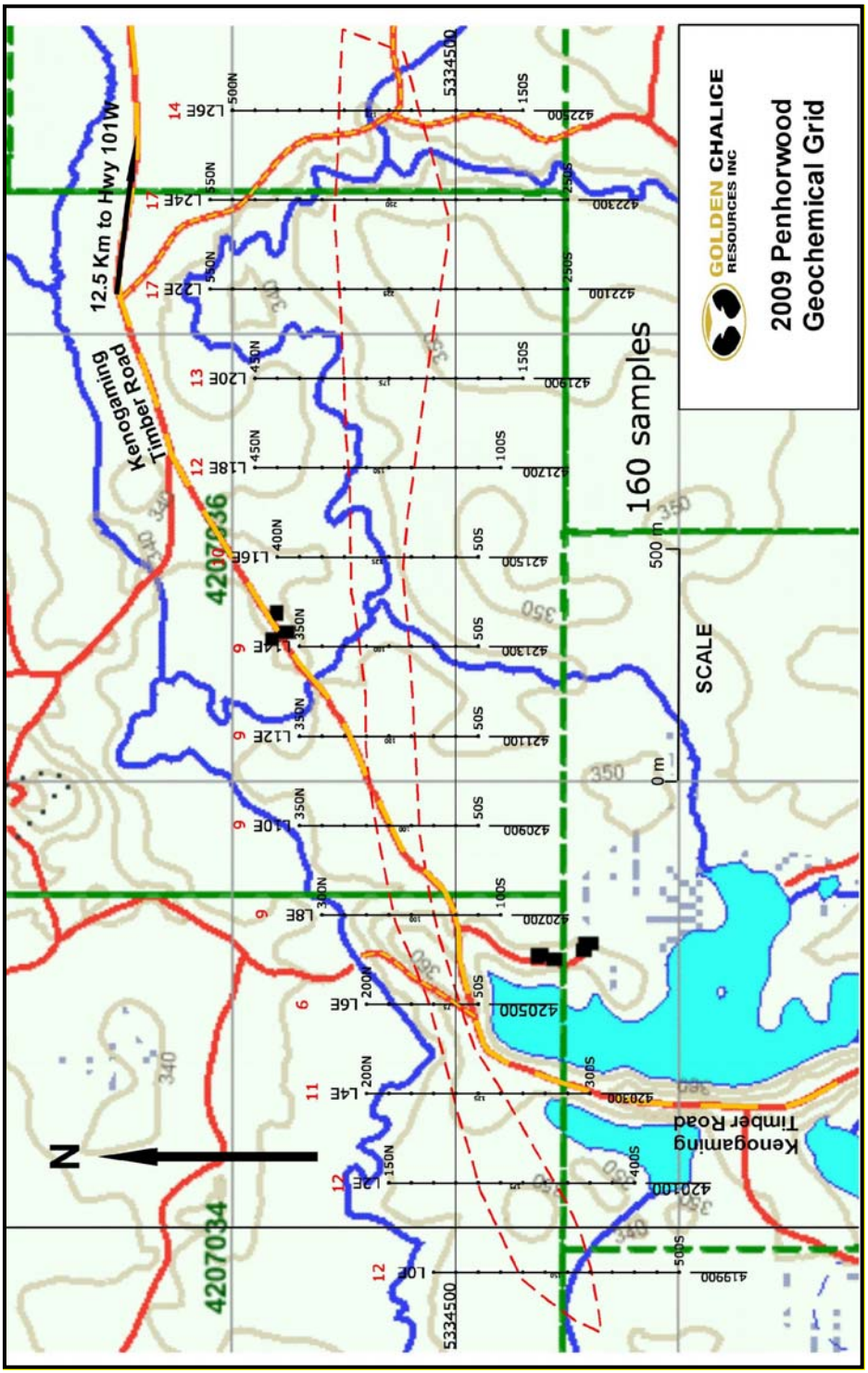

Figure 3 2009 Geochemical Survey Grid

The MMI sampling was conducted by True North Mineral Laboratories personnel utilizing a steel hand auger. The sampling auger was brushed prior to taking any sample to eliminate residue from previous samples and it was flushed with soil from the new sample site. The 300-400 gram MMI soil sample collected at a site was placed in a clean plastic zip lock bag and labeled with the grid station co-ordinates. A description of the depth to the bottom of the organic layer, the sample type, sample moisture content and the sample location terrain was recorded at each site. These descriptions were later entered by the author into an excel spreadsheet (see Appendix A).

GEOCHEMICAL ANALYSIS DESCRIPTION

The collected soil and SGH samples were prepared for analysis at the True North Minerals Laboratory in Timmins, Ontario. The soil geochemical preparation consisted of the soil samples being air-dried at 60 degrees C. The dried samples are then sieved and the -80 mesh fraction is collected and packaged in a plastic pulp bag. The SGH preparation consisted of soil samples being air-dried in isolated and dedicated environmentally controlled rooms set to 40°C. The dried samples were then sieved. In the sieving process, it is important that compressed air is not used to clean the sieves between samples as trace amounts of compressor oils “may” poison the samples and significantly affect some target signatures. At True North Laboratory a vacuum was used to clean the sieve between each sample. The -60 mesh sieve fraction (<250 microns, although different mesh sizes can be used at the preference of the exploration geologist) is collected and packaged in a 125g, plastic pulp bag.

The pulps were then shipped on November 3, 2009 to the Actlabs, in Ancaster, Ontario. The soil samples were analyzed using Actlabs 1H - Total Digestion - ICP, INAA method for Au and 48 other elements.

Table 2 Actlabs geochem1H (Au + 48) Elements and Detection Limits (ppm)

Elem	Detection Limit	Upper Limit	Reported By	Element	Detection Limit	Upper Limit	Reported By
Au	2 ppb	30,000 ppb	INAA	Mo †	1	10,000	ICP
Ag †	0.3	100,000	ICP&INAA	Na	0.01%	-	INAA
Al *	0.01%	-	ICP	Nd	5	10,000	INAA
As	0.5	100,000	INAA	Ni †	1	100,000	ICP&INAA

Ba †	50	-	ICP&INAA	P	0.001%	-	ICP
Be	1	-	ICP	Pb*	3	5,000	ICP
Bi	2	-	ICP	Rb	15	-	INAA
Br	0.5	-	INAA	S	0.01%	20%	ICP
Ca	0.01%	-	ICP	Sb	0.1	10,000	INAA
Cd	0.3	2,000	ICP	Sc	0.1	-	INAA
Ce	3	10,000	INAA	Se	3	-	INAA
Co	1	5,000	INAA	Sm	0.1	10,000	INAA
Cr	2	100,000	INAA	Sn	0.01%	-	INAA
Cs	1	-	INAA	Sr	1	-	ICP
Cu	1	10,000	ICP	Ta	0.5	10,000	INAA
Eu	0.2	10,000	INAA	Tb	0.5	10,000	INAA
Fe	0.01%	-	INAA	Th	0.2	10,000	INAA
Hf	1	-	INAA	Ti	0.01%	-	ICP
Hg	1	1	INAA	U	0.5	10,000	INAA
Ir	5 ppb	10,000 ppb	INAA	V	2	10,000	ICP
K	0.01%	-	ICP	W	1	10,000	INAA
La	0.5	10,000	INAA	Y *	1	1,000	ICP
Lu	0.05	10,000	INAA	Yb	0.2	10,000	INAA
Mg	0.01%	-	ICP	Zn †	1	100,000	ICP&INAA
Mn	1	100,000	ICP				

The INAA Portion consists of a 30 g soil sample aliquot being encapsulated in a polyethylene vial and irradiated with flux wires and an internal standard (1 for 11 samples) at a thermal neutron flux of 7 x 10^{12} n cm-2 s-1. After a 7-day decay to allow Na-24 to decay the samples are counted on a high purity Ge detector with resolution of better than 1.7 KeV for the 1332 KeV Co-60 photopeak. Using the flux wires, the decay-corrected activities are compared to a calibration developed from multiple certified international reference materials (Hoffman, 1992). The standard present is only a check on accuracy and is not used for calibration purposes. From 10-30% of the samples are rechecked by re-measurement. If the analysis values exceed the upper limits, then assays are needed. One standard is run for every 11 samples. One blank is analyzed per work order. Selected duplicates are analyzed when enough material is submitted.

The Total Digestion - ICP Portion consists of a 0.25 g aliquot of sample being digested in HClO4-HNO3-HCl-HF at 260°C to fuming and is diluted with dilute HCl. This leach is partial for magnetite, chromite, barite, spinels, zircon and massive sulphides. The solutions are read on a Varian Vista or Varian 735ES ICP. Reported QC includes a blank analysis frequency of 2%, 1 for every 40 or less samples, a sample replicate frequency of 7%, 1 for every 15 or less samples, and 6% or more are analyzed international standards. Additionally there is an internal method QC with a frequency of 20% (www.actlabs.com).

The SGH analysis method is a proprietary technology developed by Actlabs in collaboration with Canadian Mineral Research Organization (CAMIRO), the governments of Ontario, Manitoba, Alberta, and Canada, as well as twelve major mining companies. Upon receipt at the Activation Laboratories analytical building, the prepared SGH samples are catalogued and inputted into the Laboratory Information Management System (LIMS) employed. Each sample is then extracted, separated by gas chromatography and analyzed by mass spectrometry using customized parameters enabling the highly specific detection of the 162 targeted hydrocarbons at a reporting limit of one part-per-trillion (ppt). This trace level limit of reporting is critical to the detection of these hydrocarbons that, through research, have been found to be related at least in part to the breakdown and release of hydrocarbons from the death phase of microbes directly interacting with a deposit at depth. The hydrocarbon signatures are directly linked to the deposit type which is used as a food source. The hydrocarbons that are mobilized and metabolized by the microbes are released in the death phase of each successive generation. Very few of the hydrocarbons measured are actually due to microbe cells, or hydrocarbons present or formed in the genesis of the deposit or from anthropogenic contamination. The results of the SGH analysis is reported in raw data form in an Excel spreadsheet as “semi-quantitative” concentrations without any additional statistical modification.

The collected MMI soil samples were shipped on November 2, 2009 to SGS Mineral Services laboratory in Toronto, Ontario. At the laboratory, the samples were catalogued and inputted into the Laboratory Information Management System (LIMS) employed. A 50 gram portion of the soil sample is saturated with a concentrated MMI-M leach solution which extracts any mobile metal ions present in the sample. The pregnant sample solution is then aspirated into inductively coupled plasma Mass Spectrometer (ICP-MS) where the ions are measured and quantified according to their unique mass. The following elements were analyzed by the ICP-MS: Silver(Ag); Gold (Au); Barium (Ba); Bismuth (Bi); Calcium (Ca); Cadmium (Cd); Cerium (Ce); Copper (Cu);Cobalt (Co);Dysprosium (Dy); Erbium (Er); Europium (Eu); Gadolinium (Gd); Lanthanum (La); Magnesium (Mg), Molybdenum (Mo); Niobium (Nb); Neodymium (Nd); Nickel (Ni); Lead (Pb); Palladium (Pd); Praseodymium (Pr);Rubidium (Rb); Antimony (Sb); Samarium (Sm); Tin (Sn); Strontium (Sr); Tellurium (Te); Thorium (Th); Titanium (Ti); Thallium (Tl); Uranium (U); Tungsten (W); Yttrium (Y); Ytterbium (Yb); Zinc (Zn) and Zirconium (Zr). The results are exported via computer, on line, and inserted into the LIMS. The metal mobile ion elements analyzed are reported in ppb.

SGS Mineral Services employs a rigorous quality control procedure. The ICP-MS is calibrated with each work order. An instrument blank and calibration check is analyzed with each run. One preparation blank and reference material is analyzed every 46 samples, one duplicate every 12 samples. All quality control samples are verified using LIMS. The acceptance criteria are statistically controlled and control charts are used to monitor accuracy and precision. Data that falls outside the control limits is investigated and repeated as necessary.

GEOCHEMICAL ANALYTICAL RESULTS

Results of the multi-element analysis conducted on the soil samples collected at the 160 sample sites, are found in Appendix B of this report.

The results of the Soil Gas Hydrocarbons (SGH) analysis were interpreted by Dale Sutherland and Eric Hoffman of Activation Laboratories (Actlabs). Their interpretation of the results focused on the potential for a shear hosted gold deposit and a Volcanic Massive Sulphide (VMS) type deposit. A report of their analysis and interpretation of the SGH results along with contoured maps are found in Appendix C. It should be emphasized that the SGH analysis method is a proprietary technology developed by Actlabs and as such its interpretation is best conducted by the principals of Actlabs.

The results of the Mobile Element Indicator (MMI) analysis from SGS Mineral Services

were sent to Mark Fedikow of Mount Morgain Minerals for interpretation. A report of his analysis and interpretation of the MMI results along with response ratio contoured maps are found in Appendix C. Response ratios (RR) were calculated for the individual elements by normalizing all data to the arithmetic mean of the lower quartile of the MMI element data. Response ratios were rounded to the nearest unit.

Generally, a response ratio of 1 to 10 is an indication of a very low-contrast response and this level of response is not considered to be significant as a stand-alone indicator of a *bona fide* mineralized zone of interest. A response ratio of 10-20 times background or “RR” is indicative of a low-contrast response and a 20-50RR should be followed up by geological mapping and prospecting and by assessing geological and geophysical databases and diamond drill records. A response of greater than 50 times background is very significant particularly for commodity elements. These response ratio "thresholds" are not universal although they provide an initial framework for interpretation. Often, pattern recognition in the interpretation of geochemical data, including MMI data, is paramount (personal communication M Fedikow).

The results of the Soil (1H) analysis from Activation Laboratories (Actlabs) were interpreted by Kevin Montgomery for Golden Chalice Resources. A report of his analysis and interpretation of the soil results along with bubble plot maps are found in Appendix C. The interpretation of the soil results focused on the potential for a shear hosted quartz lode gold deposit, a volcanic massive sulphide (VMS) deposit, a porphyry copper-gold deposit and a kambalda nickel deposit. As such, the results for the following six major elements gold, silver, copper, zinc, lead and nickel were reviewed.

CONCLUSION AND RECOMMENDATIONS

The interpretation of the SGH survey results has outlined an east-west trending REDOX cell with small "nested" central apical anomalies. These apical anomalies (central corridor) have been linked and represent the location that Actlabs predicts to be the best gold drill target. This oval drill target area coincides with a quartz-feldspar porphyry intrusion on Ontario Government geological compilation maps. The Actlabs interpretation of the SGH results also indicated a strong potential for base metal mineralization at the west end of the REDOX cell corridor (D. Sutherland and E Hoffman, see Appendix C).

The MMI-M survey has delineated four distinctive MMI-M anomalies that are both multi-element and multi-sample in nature. The anomalous responses include Ni-Co-Ni/Cr with Ca, Ce and Mg (Lines 6+00E through 8+00E), Zn-Cd-Pb (Lines 2+00E through 6+00E; northwest corner of grid), Zn-Cd (North end of lines 16+00E through 24+00E; a second anomaly at the south end of lines 18+00E through 22+00E), and Cu-Ca-Mg-Sr (Lines 16+00E through 20+00E). The host rocks to these anomalous responses are interpreted to be quartz-feldspar porphyry intrusions and mafic to ultramafic lithologies that have been mapped in the area according to MNDM geological compilations (M Fedikow, see Appendix C).

The soil geochemical survey was successful in outlining several distinctive multi sample geochemical anomalies. These include a gold anomaly with an adjacent copper anomaly in the central west portion of the survey area. Also four zinc anomalies located in the extreme southwest corner, southwest central, southeast & northeast portions of the surveyed area. Two nickel anomalies were delineated in southwest & central portions of the surveyed area (K Montgomery, see Appendix C).

A comparison of the anomalies outlined in the interpretations of the SGH, MMI and soil survey results has found two coinciding anomalies. The MMI Ni-Co-Ni/Cr with Ca, Ce and Mg anomaly (Lines 6+00E through 8+00E) coincides with the central Ni soil anomaly. The MMI Cu-Ca-Mg-Sr anomaly (Lines 16+00E through 20+00E) coincides exactly with the copper soil anomaly in the east central portion of the survey area. The nickel anomaly is situated at the north contact of the SGH central REDOX cell corridor and the copper anomaly is situated at its south contact.

It is recommended that geological mapping of the flagged grid be conducted to ascertain if there is bedrock exposure on or near the anomalous areas. This ground checking is necessary to generate potential trenching or diamond drilling targets. Also all historical exploration conducted in the area of the quartz porphyry should be compiled. Furthermore, ground magnetic, ground electromagnetic and ground induce

polarization surveys should also be considered over the area of the geochemical survey.

The multi-element geochemical survey on the fourteen GPS flagged lines of the grid Property totalled $ 31,371 (see Appendix D).

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2009 Report of Mechanical Stripping on Golden Chalice Resources, Penhorwood Property Timmins West Project, Porcupine Mining Division, Northeastern Ontario.

CERTIFICATE OF QUALIFICATIONS

I, J. Kevin Montgomery, of the City of Timmins, Province of Ontario, do hereby certify that:

(1) I am a professional Consulting Geologist, residing at 1190 Lozanne Crescent, Timmins Ontario, P4P 1E8.

(2) I hold a B.Sc. Honours degree in Geological Sciences (1984) from Queen's University of Kingston, Ontario and a M.Sc.(App.) in Mineral Exploration (1987) from McGill University at Montreal, Quebec.

(3) I am a registered professional geoscientist with the Association of Professional Geoscientists of Ontario.

(4) This report is based on my supervision of the geochemical survey on the Penhorwood Property in 2009.

(5) I have no personal interest in the property covered by this report.

(6) Permission is granted for the use of this report, in whole or in part, for assessment and qualification requirements but not for advertising purposes.

J Kevin Montgomery

Dated at Timmins, Ontario
This 17th day of November, 2009.

J. Kevin Montgomery, P.Geo., M.Sc. (App.)

APPENDIX A SOIL SAMPLE FIELD DESCRIPTIONS

PENHORWOOD GEOCHEMICAL SURVEY SAMPLE DESCRIPTIONS

Line	Line Northing	GPS Easting NAD83	GPSNorthing NAD83	Depth to top of org.	Soil Colour	Soil Type	Condition	Sample Terrain (mixed forest-Spruce,birch,balsam)
0	50N			5 cm	brown	sand	dry	spruce forest, north of creek
0	0N	419900	5334500	5	tan-orange	sand	dry	spruce forest
0	50S			5	tan-orange	sand	damp	mixed forest, birch & spruce
0	100S			5	tan-red	sand	dry	mixed forest, birch & spruce
0	150S			8	tan-red	sand	dry	mixed forest, poplar & spruce
0	200S			5	tan-orange	sand	dry	mixed forest, poplar & spruce
0	250S			5	tan-orange	sand	dry	mixed forest, poplar & spruce
0	300S			30	light grey	sand	wet	mixed forest, mainly spruce
0	350S			50	black	sand	wet	cedar swamp, north of small creek
0	400S			60	grey-black	clay	wet	cedar swamp
0	450S			10	grey	clay	wet	rocky layer, cedar-balsam swamp
0	500S			20	tan	clay	wet	cedar-spruce forest
200E	150N			20	brown-red	sand	damp	mixed forest
200E	100N			10	brown-red	sand	damp	mixed forest
200E	50N			15	brown-red	sand	damp	mixed forest
200E	0N	420100	5334500	10	brown-red	sand	damp	mixed forest
200E	50S			10	brown-red	sand	damp	mixed forest & poplar
200E	100S			15	brown-red	sand	damp	Poplar forest
200E	150S			10	brown-red	sand	damp	mixed forest & poplar
200E	200S			5	brown-red	sand	damp	mixed forest & poplar
200E	250S			4	brown-red	sand	damp	mixed forest
200E	300S			10	brown-red	sand	damp	mixed forest
200E	350S			5	brown-red	sand	damp	mixed forest
200E	400S			10	brown	sand	damp	mixed forest
400E	200N			8	brown-red	sand	damp	north side of creek, in forest
400E	150N			5	light grey	sand	damp	south side of creek, creek plain
400E	100N			12	tan-brown	sand	wet	alder and willow
400E	50N			4	brown-red	sand	damp	downslope, spruce-balsam forest
400E	0N	420300	5334500	5	brown-red	sand	damp	topographic high
400E	50S			5	brown-red	sand	damp	upslope

400E	100S			5	brown-red	sand	damp	partially upslope
400E	150S			5	brown-red	sand	damp	bottom of esker slope
400E	200S			5	brown-red	sand	damp	esker hillside
400E	250S			5	brown-red	sand	damp	esker toe slope
400E	300S			5	brown-red	sand	damp	esker toe slope, side of road
600E	200N			5	brown-red	sand	damp	outcrop, sample off the outcrop
600E	150N			2	brown-tan	sand	damp	north side of creek
600E	100N			5	brown-red	sand	damp	south side of creek,
600E	50N			5	brown-red	sand	damp	mixed forest & poplar
600E	0N	420500	5334500	5	brown-red	sand	damp	downslope, north of road
600E	50S			5	brown-red	sand	damp	south of road
800E	300N			10	tan	sandy clay	wet	mixed forest, some alder
800E	250N			15	tan-black	silty clay	wet	alder and willow
800E	200N			10	tan	sandy clay	wet	mixed forest & poplar
800E	150N			10	tan-brown	silty sand	wet	S of old rocky creek bed
800E	100N			15	brown	clay	dry	mixed forest & poplar
800E	50N			5	red	sandy till	dry	poplar forest, north of road
800E	0N	420700	5334500	5	red	silty sand	dry	gravel with sand, birch-poplar forest
800E	50S			10	red	silty sand	dry	mixed forest
800E	100S			10	red	silty sand	dry	mixed forest
1000E	350N			5	tan	sand	dry	jackpine forest
1000E	300N			5	brown-red	sand	dry	jackpine forest
1000E	250N			5	tan	sand	dry	jackpine forest
1000E	200N			8	tan	sand	dry	jackpine forest
1000E	150N			5	brown-red	sand	dry	jackpine forest
1000E	100N			10	brown-red	sand	dry	jackpine forest
1000E	50N			7	brown-red	sand	dry	jackpine forest
1000E	0N	420900	5334500	80	brown	sandy clay	wet	bog edge of jackpine forest
1000E	50S			80	brown	sandy clay	wet	bog
1200E	350N			15	brown-red	sand	dry	jackpine forest
1200E	300N			15	brown-red	sand	dry	jackpine forest
1200E	250N			25	brown-red	sand	dry	jackpine forest
1200E	200N			8	brown-red	sand	dry	jackpine forest
1200E	150N			5	brown-red	sand	dry	jackpine forest

1200E	100N			20	dark brown	sand	dry	jackpine forest
1200E	50N			35	brown-red	sand	dry	jackpine forest
1200E	0N	430100	5334500	5	light brown	sand	dry	jackpine forest
1200E	50S			5	brown-red	sand	dry	jackpine forest
1400E	350N			10	red	sand-loam	dry	jackpine forest
1400E	300N			20	red	sandy till	dry	jackpine forest
1400E	**275N**			10	red	sand	dry	mature pine forest,N bank of creek
1400E	200N			10	tan	sand	dry	pine-spruce forest,S bank of creek
1400E	150N			5	tan	sand	dry	jackpine forest
1400E	100N			5	tan	sand	dry	jackpine forest
1400E	50N			3	tan-red	sand	dry	west of old creek
1400E	0N	430300	5334500	10	red	sand	dry	between swamp 7 creek
1400E	50S			30	black	sand-organic	wet	spruce swamp
1600E	400N			3	orange	sand	dry	pine forest
1600E	350N			3	orange	sand	dry	pine forest
1600E	300N			30	grey-black	clay	wet	cedar swamp
1600E	250N			40	black	clay	wet	cedar swamp
1600E	**207N**			10	tan	clay	wet	cedar swamp, sample taken 7 m N
1600E	150N			5	grey	clay	wet	pine-balsam forest, S of creek
1600E	100N			20	tan	clay	wet	mixed forest, south bank of creek
1600E	50N			10	light brown	sandy clay	damp	mature pine forest
1600E	0N	430500	5334500	10	red-orange	silty sand	dry	jackpine forest with poplar
1600E	50S			40	tan	clay	wet	pine-spruce forest
1800E	450N			3	brown-red	sand	dry	jackpine forest
1800E	400N			3	brown-red	sand	dry	jackpine forest
1800E	350N			3	brown-red	sand	dry	jackpine forest
1800E	300N			3	brown-red	sand	dry	jackpine forest
1800E	**260N**			25	grey	clay	wet	cedar-balsam forest, N of creek
1800E	**193N**			5	grey	clay	wet	cedar-balsam forest, S of creek
1800E	150N			5	brown-red	sand	dry	spruce-tamarack forest
1800E	100N			50	grey	clay	damp	spruce-tamarack forest
1800E	50N			40	grey	clay	damp	spruce-tamarack forest
1800E	0N	430700	5334500	40	grey	sandy clay	damp	spruce-tamarack forest
1800E	50S			5	brown	silty sand	dry	spruce-tamarack forest

1800E	100S			35	grey	clay	damp	spruce-tamarack forest
2000E	450N			5	brown-red	sand	dry	jackpine forest
2000E	400N			5	brown-red	sand	dry	jackpine forest
2000E	350N			5	brown-red	sand	dry	jackpine forest
2000E	**318N**			10	grey	sandy clay	damp	cedar-balsam forest, N of creek
2000E	**235N**			20	grey	sandy clay	damp	cedar-balsam forest, S of creek
2000E	200N			5	brown-red	sand	dry	jackpine forest, downslope to N
2000E	150N			5	brown-red	sand	dry	jackpine forest
2000E	100N			20	brown-red	sand	dry	jackpine forest
2000E	50N			5	brown-red	sand	dry	jackpine forest with poplar
2000E	0N	430900	5334500	5	rusty brown	sand	dry	jackpine forest with poplar
2000E	50S			15	brown	sand	dry	jackpine forest with poplar
2000E	100S			30	brown	sandy clay	damp	tamarack-jackpine forest
2000E	150S			30	grey	clay	damp	tamarack-jackpine forest
2200E	550N			8	brown-red	sand	dry	jackpine forest
2200E	500N			5	brown-red	sand	dry	jackpine forest
2200E	450N			5	rusty brown	sand	dry	jackpine forest
2200E	400N			5	brown-red	sand	dry	jackpine forest
2200E	350N			5	brown-red	sand	dry	jackpine forest
2200E	300N			5	brown-red	sand	dry	jackpine forest
2200E	250N			5	brown-red	sand	dry	jackpine forest
2200E	200N			5	rusty brown	sand	dry	jackpine forest
2200E	150N			5	brown-red	sand	dry	jackpine forest
2200E	100N			4	brown-red	sand	dry	jackpine forest
2200E	50N			4	rusty brown	sand	dry	jackpine forest with poplar
2200E	0N	431100	5334500	5	brown-red	sand	dry	jackpine forest with poplar
2200E	50S			5	brown-red	sand	dry	jackpine forest with poplar
2200E	100S			5	tan-brown	sand	dry	jackpine forest with poplar
2200E	150S			5	brown-red	sand	dry	jackpine forest
2200E	200S			10	brown-red	sand	dry	jackpine forest
2200E	250S			8	brown-red	sand	dry	jackpine forest
2400E	550N			5	brown-red	sand	dry	jackpine forest
2400E	500N			7	tan	sand	damp	jackpine forest
2400E	450N			3	tan	sand	dry	jackpine forest

2400E	400N			5	tan	sand	dry	jackpine forest
2400E	350N			15	dark brown	sand	dry	organics mixed in, jackpine forest
2400E	300N			5	brown-red	sand	dry	jackpine forest,high bank S of creek
2400E	250N			3	brown-red	sand	dry	jackpine forest
2400E	200N			5	brown-red	sand	dry	jackpine forest
2400E	150N			8	brown-red	sand	dry	pine-spruce forest, downslope
2400E	100N			7	brown-red	sand	dry	pine-spruce forest
2400E	50N			5	brown-red	sand	dry	pine-spruce forest
2400E	0N	431300	5334500	5	brown-red	sand	dry	pine-spruce forest
2400E	50S			20	brown	sand	dry	jackpine forest, low lying land
2400E	100S			5	brown-red	sand	dry	pine-spruce forest
2400E	150S			8	brown-red	sand	dry	pine-spruce forest
2400E	200S			10	brown-red	sand	dry	pine-spruce forest
2400E	250S			40	dark brown	sandy clay	wet	tamarack-spruce forest
2600E	500N			5	brown-red	sand	dry	jackpine forest
2600E	450N			22	brown-tan	sand	wet	jackpine forest
2600E	400N			20	brown-tan	sand	wet	jackpine forest
2600E	350N			30	brown-tan	sand	wet	jackpine forest
2600E	300N			20	dark brown	sand	wet	jackpine forest
2600E	250N			8	brown-red	sand	dry	jackpine forest
2600E	200N			5	tan	sand	dry	jackpine forest
2600E	150N			8	tan-brown	sand	dry	jackpine forest
2600E	100N			5	tan-brown	sand	damp	jackpine forest
2600E	50N			2	tan-brown	sand	damp	jackpine forest
2600E	0N	431500	5334500	5	tan-brown	sand	damp	jackpine forest
2600E	50S			5	tan-brown	sand	damp	jackpine forest
2600E	100S			8	tan-brown	sand	damp	jackpine forest
2600E	150S			3	tan-brown	sand	dry	poplar forest

APPENDIX B ANALYTICAL CERTIFICATES

Certificate of Analysis

Work Order: TO108285

To: **Kevin Montgomery**
Golden Chalice Resources
711-675 West Hastings St.
VANCOUVER
BC V6B 1N2

Date: Nov 14, 2009

P.O. No.	:	-
Project No.	:	-
No. Of Samples	:	77
Date Submitted	:	Nov 04, 2009
Report Comprises	:	Pages 1 to 16 (Inclusive of Cover Sheet)

Distribution of unused material:
Discard after 90 days:

Certified By :

Gavin McGill
Operations Manager

SGS Minerals Services (Toronto) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = 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
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
L0E-50N	13	146	10	<0.1	210	<1	<10	12	115	31
L0E- 0N	3	159	20	<0.1	520	<1	<10	5	288	134
L0E-50S	2	223	20	<0.1	800	<1	30	3	510	114
L0E-100S	6	235	<10	<0.1	230	<1	40	5	38	21
L0E-150S	3	223	20	<0.1	680	<1	40	6	246	49
L0E-200S	5	188	20	<0.1	420	<1	20	7	171	137
L0E-250S	3	205	<10	<0.1	670	<1	<10	4	277	32
L0E-300S	<1	15	<10	<0.1	410	<1	310	<1	22	11
L0E-350S	1	6	30	<0.1	380	<1	240	1	51	32
L0E-400S	2	39	<10	0.1	670	<1	440	1	91	29
L0E-450S	3	7	50	0.2	1700	<1	500	<1	271	78
L0E-500S	5	6	<10	0.3	1010	<1	340	2	31	66
L2E-150N	1	184	<10	<0.1	110	<1	30	6	26	53
L2E-100N	7	249	10	<0.1	730	<1	<10	7	55	60
L2E-50N	4	241	20	<0.1	620	2	40	18	43	34
L2E- 0N	6	277	<10	<0.1	450	<1	<10	10	70	106
L2E-50S	3	220	30	0.1	950	<1	<10	4	140	50
L2E-100S	11	189	<10	<0.1	350	<1	<10	3	68	55
L2E-150S	3	202	10	<0.1	520	<1	30	12	28	135
L2E-200S	9	211	<10	<0.1	400	<1	30	5	43	26
L2E-250S	7	245	<10	<0.1	250	<1	<10	14	41	36
L2E-300S	3	246	30	<0.1	410	<1	10	4	55	27
L2E-350S	7	258	10	<0.1	420	<1	<10	5	47	33
L2E-400S	2	248	30	<0.1	1700	1	20	4	164	35
L4E-200N	<1	273	30	0.2	310	<1	30	7	90	28
L4E-150N	2	42	20	<0.1	390	<1	190	25	227	60
L4E-100N	3	58	120	<0.1	370	<1	180	8	532	56
L4E-50N	5	258	10	<0.1	480	<1	<10	5	59	30
L4E- 0N	5	173	10	<0.1	600	<1	<10	6	180	60
L4E-50S	3	237	40	<0.1	780	1	20	6	37	34
L4E-100S	<1	198	50	<0.1	700	1	20	13	41	51
L4E-150S	2	225	10	<0.1	520	1	40	7	55	46
L4E-200S	5	193	20	<0.1	970	<1	70	4	63	50
L4E-250S	6	200	20	<0.1	1250	<1	90	10	76	60
L4E-300S	6	195	<10	<0.1	710	<1	50	4	193	78
L6E-200N	2	97	<10	<0.1	210	<1	80	10	13	211
L6E-150N	1	148	70	<0.1	540	2	50	23	399	142
L6E-100N	8	249	10	<0.1	1740	<1	20	4	110	60
L6E-50N	4	173	<10	<0.1	230	<1	<10	7	24	30
L6E- 0N	2	219	20	<0.1	710	1	20	11	65	41
L6E-50S	4	248	30	<0.1	1020	<1	20	7	63	65
L8E-300N	2	90	<10	<0.1	360	<1	130	4	355	21
L8E-250N	4	58	<10	<0.1	210	<1	210	11	262	144

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
L8E-200N	2	26	20	<0.1	640	<1	180	3	64	109
L8E-150N	3	183	<10	<0.1	300	<1	10	3	53	88
L8E-100N	2	173	20	<0.1	320	2	30	14	32	56
L8E-50N	4	202	20	<0.1	780	<1	30	12	35	40
L8E- 0N	5	17	<10	0.3	600	<1	270	4	68	46
L8E-50S	4	210	<10	<0.1	480	<1	30	9	121	58
L8E-100S	1	247	40	<0.1	1310	1	10	3	660	42
L10E-350N	3	207	20	<0.1	510	<1	30	7	111	40
L10E-300N	3	197	<10	<0.1	420	<1	<10	5	72	54
L10E-250N	17	79	<10	<0.1	150	<1	<10	10	46	42
L10E-200N	3	153	10	<0.1	170	<1	<10	4	36	15
L10E-150N	3	80	<10	<0.1	190	<1	10	5	150	30
L10E-100N	7	73	<10	<0.1	150	<1	10	6	62	30
L10E-50N	14	24	<10	<0.1	40	<1	<10	3	86	19
L10E- 0N	2	59	20	<0.1	940	2	130	2	274	30
L10E-50S	2	10	20	<0.1	1480	<1	300	2	99	19
L12E-350N	3	195	<10	<0.1	200	<1	<10	5	77	38
L12E-300N	1	236	<10	<0.1	240	<1	<10	7	105	17
L12E-250N	2	213	10	<0.1	420	<1	10	10	56	110
L12E-200N	4	82	<10	<0.1	160	<1	<10	4	157	29
L12E-150N	6	109	<10	<0.1	230	<1	<10	8	137	46
L12E-100N	<1	259	<10	<0.1	350	<1	10	3	76	25
L12E-50N	<1	89	70	<0.1	450	1	70	<1	446	30
L12E- 0N	2	182	20	<0.1	760	<1	20	4	527	30
L12E-50S	1	109	<10	<0.1	510	<1	10	3	212	113
L14E-350N	8	131	<10	<0.1	420	<1	<10	8	122	32
L14E-300N	<1	206	50	<0.1	340	2	<10	5	70	30
L14E-250N	2	176	30	<0.1	440	1	50	6	216	87
L14E-200N	2	191	20	<0.1	610	1	10	7	141	20
L14E-150N	2	122	10	0.6	280	<1	<10	6	107	28
L14E-100N	2	109	<10	0.2	260	<1	<10	6	76	31
L14E-50N	3	112	<10	<0.1	280	<1	120	7	133	17
L14E- 0N	2	154	<10	<0.1	390	<1	<10	3	144	9
L14E-50S	<1	82	<10	<0.1	160	<1	140	<1	293	32
*Rep L0E-400S	2	29	<10	<0.1	670	<1	430	<1	125	26
*Rep L2E-350S	8	264	20	<0.1	400	<1	<10	4	44	30
*Rep L6E-50N	4	171	<10	<0.1	220	<1	<10	7	27	29
*Rep L8E-150N	3	205	<10	<0.1	370	<1	20	5	65	171
*Rep L12E-350N	2	156	<10	<0.1	140	<1	<10	6	78	31
*Rep L12E-50S	1	94	<10	<0.1	450	<1	10	4	186	125
*Std MMISRM18	19	25	10	10.8	130	<1	160	68	23	63
*Std MMISRM16	19	42	10	41.3	70	<1	200	4	14	61
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppm
L0E-50N	<100	220	18	9.8	6.7	31	22	55	<5	<1
L0E- 0N	100	150	32	15.3	12.3	33	45	145	<5	<1
L0E-50S	200	100	31	14.1	12.0	83	40	199	<5	4
L0E-100S	<100	50	8	3.7	2.1	63	7	21	<5	2
L0E-150S	100	80	24	13.0	7.6	100	27	89	<5	4
L0E-200S	200	300	11	5.1	4.1	97	14	68	<5	3
L0E-250S	100	140	43	17.1	14.3	38	49	175	<5	<1
L0E-300S	<100	620	3	1.5	0.9	9	4	9	9	38
L0E-350S	<100	240	2	1.3	0.8	55	3	20	<5	22
L0E-400S	<100	1060	9	4.9	2.4	30	11	35	8	47
L0E-450S	<100	1680	13	6.2	5.1	25	19	92	7	72
L0E-500S	<100	240	9	4.9	2.5	2	13	5	31	81
L2E-150N	<100	50	6	5.1	1.2	68	5	13	<5	6
L2E-100N	<100	150	5	2.7	1.7	109	5	27	<5	2
L2E-50N	<100	150	6	4.0	1.4	94	4	21	6	4
L2E- 0N	<100	150	10	5.2	2.8	83	10	32	<5	1
L2E-50S	100	60	12	5.8	4.0	83	12	46	<5	<1
L2E-100S	<100	140	12	7.7	2.8	44	10	25	<5	1
L2E-150S	400	200	3	2.1	1.1	122	3	14	<5	11
L2E-200S	<100	80	7	3.8	2.2	51	8	28	<5	2
L2E-250S	<100	60	6	3.2	1.6	46	5	18	<5	<1
L2E-300S	100	110	6	3.5	2.3	107	7	29	5	3
L2E-350S	<100	60	5	2.4	1.8	77	6	27	<5	<1
L2E-400S	300	90	12	5.7	4.9	133	15	79	6	4
L4E-200N	200	70	9	3.8	3.0	113	11	41	<5	2
L4E-150N	<100	250	15	8.4	5.8	66	22	102	<5	18
L4E-100N	100	170	45	20.8	17.9	142	72	258	<5	11
L4E-50N	200	60	7	3.8	2.9	72	8	28	<5	<1
L4E- 0N	<100	70	24	11.9	9.8	35	32	132	<5	<1
L4E-50S	200	110	4	1.9	1.3	189	4	20	7	5
L4E-100S	300	90	4	1.7	1.1	273	3	20	8	6
L4E-150S	200	100	7	3.6	2.3	119	7	25	6	4
L4E-200S	200	100	6	3.1	2.2	140	7	33	7	12
L4E-250S	200	150	8	4.1	2.8	151	9	40	11	9
L4E-300S	100	160	14	6.9	4.7	40	17	79	<5	4
L6E-200N	500	290	3	1.7	0.7	176	2	5	<5	11
L6E-150N	300	210	46	28.8	12.5	224	52	189	<5	4
L6E-100N	100	180	11	5.4	4.1	67	12	47	<5	5
L6E-50N	<100	50	6	3.9	1.2	50	4	12	<5	1
L6E- 0N	100	140	7	3.2	2.2	100	7	32	<5	5
L6E-50S	200	120	8	4.0	2.3	147	8	35	9	5
L8E-300N	100	210	25	11.3	10.5	30	39	194	<5	5
L8E-250N	<100	240	17	9.7	6.6	40	26	122	<5	13

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppm
L8E-200N	<100	180	5	2.5	2.1	39	8	33	<5	18
L8E-150N	400	380	4	2.3	1.5	143	4	24	<5	4
L8E-100N	900	260	5	3.0	1.4	139	5	14	<5	13
L8E-50N	200	130	6	3.9	1.6	180	5	18	<5	3
L8E- 0N	<100	510	7	3.2	2.6	7	11	37	<5	16
L8E-50S	100	130	13	6.7	4.2	91	15	74	<5	2
L8E-100S	300	130	41	18.0	16.2	206	54	272	<5	1
L10E-350N	100	100	10	5.0	4.0	77	12	57	<5	2
L10E-300N	100	70	9	4.5	3.1	61	9	30	<5	<1
L10E-250N	<100	100	11	6.4	4.1	15	13	24	<5	<1
L10E-200N	<100	80	7	4.2	2.2	40	7	18	<5	<1
L10E-150N	<100	90	21	9.7	9.6	12	32	60	<5	<1
L10E-100N	<100	190	10	5.7	3.7	29	12	32	<5	<1
L10E-50N	<100	50	21	11.9	8.4	4	29	49	<5	<1
L10E- 0N	100	520	14	6.8	5.2	142	20	111	<5	12
L10E-50S	<100	2030	7	3.4	2.8	34	11	42	7	39
L12E-350N	<100	90	9	4.7	3.7	42	11	47	<5	<1
L12E-300N	100	60	12	5.7	4.4	58	13	48	<5	<1
L12E-250N	100	80	9	5.0	2.9	59	9	24	<5	1
L12E-200N	<100	60	23	9.8	9.1	20	35	84	<5	<1
L12E-150N	<100	120	21	10.7	8.3	28	29	61	<5	1
L12E-100N	200	60	9	4.8	3.0	58	9	33	<5	2
L12E-50N	200	140	18	7.6	8.0	243	26	227	<5	3
L12E- 0N	200	80	30	12.9	12.7	139	44	281	6	3
L12E-50S	<100	60	20	8.8	7.4	32	24	62	<5	<1
L14E-350N	<100	60	14	6.9	5.7	35	18	71	<5	2
L14E-300N	200	70	5	2.4	1.6	134	5	22	5	2
L14E-250N	200	160	11	5.5	4.1	107	13	80	<5	5
L14E-200N	100	70	14	6.6	5.3	45	17	64	<5	1
L14E-150N	<100	50	12	5.4	5.1	29	16	57	<5	<1
L14E-100N	100	50	9	4.2	3.7	50	11	44	<5	<1
L14E-50N	100	70	10	4.9	4.2	25	14	43	<5	6
L14E- 0N	100	60	14	7.1	6.8	32	18	70	<5	<1
L14E-50S	<100	310	19	10.2	7.0	116	25	157	<5	18
*Rep L0E-400S	<100	960	8	4.3	2.8	37	11	49	8	46
*Rep L2E-350S	<100	60	5	2.4	1.8	83	5	26	<5	<1
*Rep L6E-50N	<100	50	6	3.7	1.3	50	5	14	<5	1
*Rep L8E-150N	400	440	6	3.2	1.8	127	6	27	<5	6
*Rep L12E-350N	<100	70	11	5.5	4.3	37	13	45	<5	<1
*Rep L12E-50S	<100	70	19	8.4	6.9	25	23	54	<5	<1
*Std MMISRM18	<100	630	4	1.6	1.5	3	7	7	<5	69
*Std MMISRM16	<100	560	3	1.0	1.2	2	5	3	<5	28
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppm
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
L0E-50N	7	1.4	100	76	300	<1	21	<1	108	<1
L0E- 0N	10	4.3	228	82	160	<1	52	<1	120	<1
L0E-50S	5	11.9	239	56	90	<1	61	<1	78	<1
L0E-100S	<5	3.2	23	124	170	<1	5	<1	113	<1
L0E-150S	6	10.6	126	129	310	<1	29	<1	79	<1
L0E-200S	6	4.0	75	309	240	<1	19	<1	238	<1
L0E-250S	6	5.6	232	63	130	<1	57	<1	103	<1
L0E-300S	95	1.0	16	248	30	<1	3	<1	26	<1
L0E-350S	10	0.8	25	129	10	<1	6	<1	24	<1
L0E-400S	15	1.5	47	218	130	<1	11	<1	45	<1
L0E-450S	15	1.4	127	162	110	<1	31	<1	27	<1
L0E-500S	6	<0.5	21	87	50	<1	3	<1	15	<1
L2E-150N	<5	1.8	20	155	110	<1	4	<1	29	<1
L2E-100N	<5	6.3	26	186	110	<1	7	<1	222	<1
L2E-50N	<5	5.0	21	116	660	<1	5	<1	132	<1
L2E- 0N	<5	4.5	39	138	210	<1	9	<1	134	<1
L2E-50S	7	6.4	51	76	140	<1	13	<1	92	<1
L2E-100S	<5	1.9	36	435	170	<1	8	<1	227	<1
L2E-150S	<5	3.2	15	550	90	<1	4	<1	82	<1
L2E-200S	<5	2.7	31	119	270	<1	7	<1	129	<1
L2E-250S	<5	1.6	21	165	130	<1	5	<1	112	<1
L2E-300S	<5	10.4	29	83	170	<1	7	<1	130	<1
L2E-350S	<5	3.7	24	80	140	<1	6	<1	147	<1
L2E-400S	5	13.5	83	86	190	<1	21	<1	55	<1
L4E-200N	6	4.0	51	175	100	<1	13	<1	73	<1
L4E-150N	<5	1.5	136	210	80	<1	33	<1	25	<1
L4E-100N	9	3.5	390	136	40	<1	90	<1	19	<1
L4E-50N	<5	6.3	35	52	150	<1	8	<1	71	<1
L4E- 0N	<5	2.3	156	46	150	<1	38	<1	123	<1
L4E-50S	5	15.2	18	104	340	<1	5	<1	61	<1
L4E-100S	9	17.8	18	80	390	<1	5	<1	110	2
L4E-150S	7	6.8	32	85	190	<1	8	<1	65	<1
L4E-200S	5	7.5	33	109	250	<1	8	<1	71	<1
L4E-250S	<5	9.5	40	120	230	<1	10	<1	63	<1
L4E-300S	<5	2.7	85	135	120	<1	22	<1	106	<1
L6E-200N	<5	5.2	8	1250	70	<1	2	<1	71	<1
L6E-150N	9	8.5	254	177	1140	<1	61	<1	21	1
L6E-100N	<5	3.7	58	120	230	<1	14	<1	54	<1
L6E-50N	<5	1.1	16	114	130	<1	4	<1	81	<1
L6E- 0N	<5	5.7	34	87	470	<1	9	<1	107	<1
L6E-50S	<5	9.1	36	121	230	<1	9	<1	143	<1
L8E-300N	<5	4.0	239	82	80	<1	59	<1	13	<1
L8E-250N	8	1.5	163	181	30	<1	39	<1	12	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
L8E-200N	<5	0.9	45	378	50	<1	11	<1	51	<1
L8E-150N	<5	4.2	24	1000	20	<1	6	<1	65	<1
L8E-100N	6	11.4	20	730	380	<1	5	<1	91	<1
L8E-50N	6	12.3	20	224	130	<1	5	<1	139	<1
L8E- 0N	<5	1.5	51	92	10	<1	11	<1	36	<1
L8E-50S	<5	5.2	67	143	300	<1	17	<1	81	<1
L8E-100S	7	25.5	301	74	140	<1	77	<1	50	<1
L10E-350N	<5	5.8	59	86	250	<1	15	<1	88	<1
L10E-300N	<5	4.1	39	60	250	<1	9	<1	140	<1
L10E-250N	<5	<0.5	48	40	200	<1	10	<1	93	<1
L10E-200N	<5	3.2	25	61	210	<1	5	<1	77	<1
L10E-150N	5	0.7	143	28	230	<1	30	<1	101	<1
L10E-100N	<5	0.6	48	102	200	<1	10	<1	69	<1
L10E-50N	13	<0.5	129	53	170	<1	25	<1	105	<1
L10E- 0N	17	6.6	124	254	110	<1	32	<1	59	<1
L10E-50S	8	0.7	67	348	70	<1	15	<1	86	<1
L12E-350N	<5	4.9	53	32	260	<1	13	<1	126	<1
L12E-300N	<5	2.8	59	50	120	<1	15	<1	78	<1
L12E-250N	<5	3.2	35	130	190	<1	8	<1	87	<1
L12E-200N	6	0.9	161	54	190	<1	34	<1	104	<1
L12E-150N	6	2.1	131	70	170	<1	26	<1	137	<1
L12E-100N	<5	12.3	40	250	90	<1	10	<1	23	<1
L12E-50N	6	7.9	199	33	40	<1	54	<1	29	<1
L12E- 0N	14	14.2	242	66	160	<1	65	<1	112	<1
L12E-50S	7	3.4	100	39	80	<1	22	<1	77	<1
L14E-350N	<5	1.9	85	58	150	<1	20	<1	66	<1
L14E-300N	<5	16.9	23	67	210	<1	6	<1	111	<1
L14E-250N	7	7.7	75	82	250	<1	20	<1	39	<1
L14E-200N	<5	3.8	74	50	300	<1	18	<1	47	<1
L14E-150N	<5	3.2	73	33	160	<1	17	<1	65	<1
L14E-100N	7	4.9	54	29	200	<1	13	<1	85	<1
L14E-50N	<5	2.8	58	35	160	<1	13	<1	50	<1
L14E- 0N	<5	1.8	85	24	150	<1	20	<1	67	<1
L14E-50S	17	1.0	160	65	20	<1	42	<1	18	<1
*Rep L0E-400S	15	1.6	62	189	100	<1	15	<1	40	<1
*Rep L2E-350S	<5	3.7	21	88	130	<1	6	<1	156	<1
*Rep L6E-50N	<5	1.1	17	115	110	<1	4	<1	80	<1
*Rep L8E-150N	<5	4.7	29	1270	70	<1	7	<1	81	<1
*Rep L12E-350N	<5	3.4	57	28	320	<1	14	<1	123	<1
*Rep L12E-50S	7	2.5	94	38	90	<1	21	<1	69	<1
*Std MMISRM18	38	<0.5	20	444	340	12	4	6	137	<1
*Std MMISRM16	55	<0.5	13	219	120	26	2	<1	282	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
L0E-50N	36	23	<1	20	<1	3	<10	7.5	291	<0.5
L0E- 0N	45	49	<1	20	<1	6	<10	29.8	996	0.5
L0E-50S	45	48	<1	120	1	6	<10	44.7	2830	0.8
L0E-100S	15	6	<1	160	<1	1	<10	6.1	419	<0.5
L0E-150S	40	27	2	140	<1	4	<10	26.5	2880	<0.5
L0E-200S	27	16	<1	60	<1	2	<10	17.5	1100	<0.5
L0E-250S	46	54	<1	20	<1	8	<10	42.3	1770	<0.5
L0E-300S	<5	4	<1	360	<1	<1	<10	4.2	43	<0.5
L0E-350S	<5	4	<1	200	<1	<1	<10	6.6	61	<0.5
L0E-400S	7	10	<1	450	<1	1	<10	9.0	22	<0.5
L0E-450S	<5	22	<1	660	<1	3	<10	24.4	8	<0.5
L0E-500S	<5	8	<1	540	<1	2	<10	4.0	<3	<0.5
L2E-150N	17	4	<1	130	<1	<1	<10	6.4	404	<0.5
L2E-100N	22	5	<1	70	<1	<1	<10	11.1	1350	0.5
L2E-50N	22	4	1	160	<1	<1	<10	10.9	948	0.6
L2E- 0N	23	9	<1	50	<1	2	<10	14.5	980	0.7
L2E-50S	31	12	<1	50	<1	2	<10	23.6	1640	0.6
L2E-100S	24	9	<1	20	<1	2	<10	7.5	511	<0.5
L2E-150S	18	3	<1	190	<1	<1	<10	6.6	1050	<0.5
L2E-200S	22	7	<1	100	<1	1	<10	11.3	853	<0.5
L2E-250S	17	5	<1	40	<1	<1	<10	11.9	322	0.5
L2E-300S	28	7	2	100	<1	1	<10	9.5	3610	<0.5
L2E-350S	17	5	<1	60	<1	<1	<10	10.2	946	<0.5
L2E-400S	35	17	2	160	<1	2	<10	19.3	3360	<0.5
L4E-200N	18	11	<1	90	<1	2	<10	21.2	663	0.7
L4E-150N	15	25	<1	170	<1	3	<10	16.7	185	0.8
L4E-100N	20	77	<1	150	<1	9	<10	32.7	638	<0.5
L4E-50N	28	8	1	60	<1	1	<10	10.0	2390	<0.5
L4E- 0N	53	33	<1	20	<1	4	<10	15.5	662	<0.5
L4E-50S	27	4	3	150	1	<1	<10	15.5	4430	<0.5
L4E-100S	26	4	3	110	1	<1	<10	15.3	4230	0.5
L4E-150S	28	7	<1	220	<1	1	<10	15.1	2280	<0.5
L4E-200S	26	7	1	190	<1	1	<10	18.7	3070	<0.5
L4E-250S	28	8	1	240	<1	1	<10	13.9	3190	<0.5
L4E-300S	26	18	<1	80	<1	3	<10	38.6	574	<0.5
L6E-200N	22	2	1	200	<1	<1	<10	5.4	1750	<0.5
L6E-150N	58	52	2	100	<1	8	<10	85.5	1350	0.7
L6E-100N	29	13	<1	110	<1	2	<10	21.3	916	<0.5
L6E-50N	16	4	<1	40	<1	<1	<10	7.6	331	<0.5
L6E- 0N	19	8	<1	90	<1	1	<10	17.7	1400	<0.5
L6E-50S	27	8	1	90	<1	1	<10	21.1	2900	<0.5
L8E-300N	22	43	<1	100	<1	5	<10	35.5	619	<0.5
L8E-250N	10	29	<1	180	<1	3	<10	16.1	231	<0.5

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
L8E-200N	<5	8	<1	180	<1	<1	<10	10.1	140	<0.5
L8E-150N	23	5	<1	70	<1	<1	<10	11.6	1080	<0.5
L8E-100N	30	4	3	80	<1	<1	<10	8.9	3840	<0.5
L8E-50N	29	5	2	180	<1	<1	<10	12.7	3560	<0.5
L8E- 0N	<5	10	<1	330	<1	1	<10	12.3	206	<0.5
L8E-50S	30	14	<1	90	<1	2	<10	19.9	1310	<0.5
L8E-100S	52	61	2	100	2	8	<10	61.5	6270	0.9
L10E-350N	26	12	<1	70	<1	2	<10	18.6	1430	<0.5
L10E-300N	25	9	<1	40	<1	1	<10	17.8	718	<0.5
L10E-250N	23	12	<1	10	<1	2	<10	4.8	114	<0.5
L10E-200N	20	6	<1	20	<1	1	<10	5.9	1210	<0.5
L10E-150N	29	32	<1	20	<1	4	<10	7.3	214	<0.5
L10E-100N	22	11	<1	20	<1	2	<10	4.6	155	<0.5
L10E-50N	19	29	<1	<10	<1	4	<10	0.9	6	<0.5
L10E- 0N	23	22	<1	240	<1	3	<10	23.6	1050	<0.5
L10E-50S	5	13	<1	820	<1	1	<10	6.1	20	<0.5
L12E-350N	26	11	1	20	<1	2	<10	9.0	1630	<0.5
L12E-300N	33	13	<1	30	<1	2	<10	13.2	765	<0.5
L12E-250N	28	9	<1	70	<1	1	<10	15.3	622	<0.5
L12E-200N	24	36	<1	<10	<1	5	<10	8.2	238	<0.5
L12E-150N	27	28	<1	10	<1	4	<10	6.9	638	<0.5
L12E-100N	30	9	1	90	<1	1	<10	15.1	2770	<0.5
L12E-50N	26	33	<1	110	<1	4	<10	51.3	1490	<0.5
L12E- 0N	38	47	4	140	1	6	<10	24.2	5810	<0.5
L12E-50S	29	25	<1	60	<1	4	<10	26.3	831	<0.5
L14E-350N	27	18	<1	40	<1	2	<10	9.7	622	<0.5
L14E-300N	24	4	4	50	1	<1	<10	18.1	4620	<0.5
L14E-250N	26	14	1	140	<1	2	<10	33.3	2300	<0.5
L14E-200N	31	16	1	70	<1	2	<10	16.3	1280	<0.5
L14E-150N	23	15	1	30	<1	2	<10	11.0	1240	<0.5
L14E-100N	25	11	1	30	<1	2	<10	15.1	1560	<0.5
L14E-50N	21	13	<1	80	<1	2	<10	15.2	805	<0.5
L14E- 0N	37	18	<1	10	<1	3	<10	11.1	634	<0.5
L14E-50S	31	28	<1	150	<1	4	<10	18.9	100	<0.5
*Rep L0E-400S	7	12	<1	430	<1	2	<10	10.5	44	<0.5
*Rep L2E-350S	16	5	<1	60	<1	<1	<10	10.3	891	<0.5
*Rep L6E-50N	16	4	<1	50	<1	<1	<10	8.0	382	<0.5
*Rep L8E-150N	24	6	<1	90	<1	<1	<10	12.4	1350	<0.5
*Rep L12E-350N	28	13	<1	10	<1	2	<10	8.5	1090	<0.5
*Rep L12E-50S	27	23	<1	50	<1	4	<10	23.0	592	<0.5
*Std MMISRM18	<5	6	<1	950	<1	<1	<10	23.5	5	<0.5
*Std MMISRM16	9	4	<1	390	<1	<1	<10	22.4	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	ppb	ppb	ppb	ppb	ppb	ppb
L0E-50N	4	4	93	8	190	17
L0E- 0N	11	3	149	12	140	56
L0E-50S	8	2	131	11	150	88
L0E-100S	2	1	34	3	60	14
L0E-150S	7	2	118	10	120	59
L0E-200S	5	<1	46	4	260	34
L0E-250S	12	<1	147	12	60	59
L0E-300S	31	5	14	1	120	<5
L0E-350S	12	<1	12	1	80	8
L0E-400S	21	<1	42	4	130	7
L0E-450S	5	3	55	5	60	17
L0E-500S	2	<1	43	4	120	<5
L2E-150N	4	<1	33	6	60	14
L2E-100N	4	<1	21	3	90	27
L2E-50N	4	<1	27	3	1080	26
L2E- 0N	6	<1	41	4	730	28
L2E-50S	5	1	43	5	360	48
L2E-100S	4	<1	57	6	60	17
L2E-150S	3	<1	15	2	420	16
L2E-200S	4	<1	31	3	70	26
L2E-250S	2	<1	25	3	20	23
L2E-300S	3	<1	27	3	110	40
L2E-350S	4	<1	20	2	20	23
L2E-400S	5	<1	49	5	200	42
L4E-200N	6	1	30	3	340	41
L4E-150N	36	<1	74	7	1750	33
L4E-100N	32	1	185	15	170	59
L4E-50N	4	<1	29	3	210	28
L4E- 0N	9	<1	104	9	80	36
L4E-50S	4	1	15	2	770	48
L4E-100S	5	1	13	1	390	47
L4E-150S	4	<1	28	3	200	30
L4E-200S	3	<1	23	3	100	41
L4E-250S	4	<1	32	3	330	33
L4E-300S	7	<1	53	5	60	54
L6E-200N	2	<1	12	2	480	19
L6E-150N	53	2	210	24	290	128
L6E-100N	5	<1	42	5	90	41
L6E-50N	4	<1	24	3	150	14
L6E- 0N	5	<1	23	2	600	29
L6E-50S	4	<1	30	3	290	45
L8E-300N	32	1	98	8	100	56
L8E-250N	41	<1	82	8	170	23

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	ppb	ppb	ppb	ppb	ppb	ppb
L8E-200N	14	<1	22	2	170	13
L8E-150N	3	<1	17	2	140	22
L8E-100N	4	<1	23	3	880	27
L8E-50N	6	<1	26	4	470	41
L8E- 0N	2	<1	28	3	160	24
L8E-50S	5	<1	53	5	390	40
L8E-100S	13	3	144	14	400	101
L10E-350N	5	<1	38	4	60	44
L10E-300N	5	<1	30	4	40	36
L10E-250N	3	<1	51	5	60	9
L10E-200N	3	<1	32	4	150	20
L10E-150N	7	<1	87	7	140	15
L10E-100N	4	<1	50	4	120	10
L10E-50N	3	<1	114	10	60	<5
L10E- 0N	6	1	61	5	70	38
L10E-50S	15	1	37	3	90	6
L12E-350N	3	<1	42	4	170	29
L12E-300N	5	<1	45	4	280	33
L12E-250N	4	<1	36	4	180	33
L12E-200N	6	<1	98	7	220	16
L12E-150N	5	<1	98	8	100	16
L12E-100N	5	<1	36	4	170	33
L12E-50N	8	1	65	6	70	55
L12E- 0N	7	2	122	9	130	62
L12E-50S	8	<1	66	7	70	44
L14E-350N	3	<1	62	6	140	22
L14E-300N	3	1	18	2	150	56
L14E-250N	5	<1	46	4	240	34
L14E-200N	5	<1	53	5	110	36
L14E-150N	4	<1	49	4	140	29
L14E-100N	5	<1	35	3	180	33
L14E-50N	5	<1	38	4	100	25
L14E- 0N	6	<1	55	6	100	22
L14E-50S	78	<1	88	8	70	15
*Rep L0E-400S	18	<1	41	3	150	7
*Rep L2E-350S	4	<1	19	2	30	23
*Rep L6E-50N	4	<1	24	3	160	15
*Rep L8E-150N	3	<1	24	3	350	25
*Rep L12E-350N	4	<1	48	5	200	24
*Rep L12E-50S	8	<1	64	6	70	37
*Std MMISRM18	24	<1	23	1	610	22
*Std MMISRM16	48	<1	9	<1	230	12
*Blk BLANK	<1	<1	<5	<1	<20	<5

Final : TO108285 Order:

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	ppb	ppb	ppb	ppb	ppb	ppb
*Blk BLANK	<1	<1	<5	<1	<20	<5

Certificate of Analysis

Work Order: TO108286

To: **Kevin Montgomery**
Golden Chalice Resources
711-675 West Hastings St.
VANCOUVER
BC V6B 1N2

Date: Nov 14, 2009

P.O. No.	:	-
Project No.	:	-
No. Of Samples	:	83
Date Submitted	:	Nov 04, 2009
Report Comprises	:	Pages 1 to 16 (Inclusive of Cover Sheet)

Distribution of unused material:
Discard after 90 days:

Certified By :

Gavin McGill
Operations Manager

SGS Minerals Services (Toronto) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = 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
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

SGS

Final : TO108286 Order:

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
L16E-400N	4	164	10	<0.1	400	<1	10	16	202	76
L16E-350N	2	47	<10	<0.1	320	<1	<10	2	133	22
L16E-300N	<1	204	60	<0.1	690	2	<10	8	239	62
L16E-250N	<1	80	30	<0.1	200	<1	260	2	103	65
L16E-200N	4	76	10	0.1	510	<1	250	13	632	49
L16E-150N	1	93	10	0.5	820	<1	300	4	637	61
L16E-100N	2	140	20	<0.1	520	<1	100	6	315	76
L16E-50N	5	173	20	<0.1	1220	<1	100	1	142	48
L16E- 0N	5	249	30	<0.1	730	<1	30	9	133	85
L16E-50S	4	12	<10	0.3	720	<1	340	2	13	52
L18E-450N	8	132	<10	0.1	120	<1	10	13	111	25
L18E-400N	2	124	<10	<0.1	180	<1	<10	7	101	36
L18E-350N	2	151	10	<0.1	330	<1	20	9	102	38
L18E-300N	6	244	20	<0.1	590	<1	<10	7	119	76
L18E-250N	2	68	30	<0.1	330	<1	80	1	121	10
L18E-200N	2	86	10	<0.1	540	<1	200	9	288	68
L18E-150N	<1	293	20	<0.1	290	<1	<10	4	70	18
L18E-100N	3	13	<10	0.6	410	<1	360	7	54	32
L18E-50N	3	32	20	0.2	860	<1	220	4	344	20
L18E- 0N	6	11	<10	0.2	620	<1	380	4	32	80
L18E-50S	4	94	<10	<0.1	450	<1	290	28	199	55
L18E-100S	6	35	<10	0.2	1280	<1	370	19	306	29
L20E-450N	4	236	10	<0.1	320	<1	<10	13	57	11
L20E-400N	3	255	10	<0.1	460	<1	10	14	27	41
L20E-350N	2	109	10	<0.1	200	<1	<10	2	98	33
L20E-300N	<1	165	10	<0.1	300	<1	150	6	232	26
L20E-250N	4	36	<10	0.1	2160	<1	270	3	573	29
L20E-200N	4	241	10	<0.1	430	<1	20	6	109	21
L20E-150N	3	193	10	<0.1	170	<1	10	15	58	38
L20E-100N	23	62	<10	0.2	850	<1	250	5	151	92
L20E-50N	10	217	<10	<0.1	310	<1	30	7	80	37
L20E- 0N	7	208	<10	<0.1	230	<1	20	2	240	11
L20E-50S	5	224	<10	<0.1	460	<1	30	18	35	53
L20E-100S	8	10	<10	0.2	940	<1	280	3	168	43
L20E-150S	16	9	<10	0.3	600	<1	440	4	13	40
L22E-550N	5	73	<10	0.1	130	<1	20	4	140	18
L22E-500N	3	115	10	<0.1	50	<1	<10	10	52	57
L22E-450N	2	228	20	<0.1	280	<1	40	13	39	67
L22E-400N	4	292	30	<0.1	450	<1	<10	11	36	17
L22E-350N	5	212	20	0.2	270	<1	20	9	91	43
L22E-300N	6	86	<10	<0.1	130	<1	10	6	120	21
L22E-250N	7	163	10	<0.1	240	<1	<10	8	222	85
L22E-200N	3	254	10	<0.1	550	<1	20	8	49	39

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
L22E-150N	8	173	<10	0.2	370	<1	20	3	149	47
L22E-100N	1	188	<10	<0.1	500	1	30	6	29	53
L22E-50N	6	219	10	<0.1	430	<1	20	3	49	30
L22E- 0N	4	192	<10	<0.1	380	<1	20	10	45	47
L22E-50S	5	207	10	<0.1	530	<1	20	16	29	21
L22E-100S	1	208	20	<0.1	390	<1	30	13	45	53
L22E-150S	1	193	<10	<0.1	260	<1	60	2	582	26
L22E-200S	<1	250	20	<0.1	920	<1	20	2	171	44
L22E-250S	4	20	<10	<0.1	300	<1	170	3	40	26
L24E-550N	<1	69	<10	<0.1	280	<1	10	3	102	29
L24E-500N	<1	261	10	<0.1	580	<1	40	2	425	35
L24E-450N	2	186	30	<0.1	360	1	<10	7	108	27
L24E-400N	1	260	30	<0.1	500	<1	10	11	221	101
L24E-350N	8	23	<10	0.2	1550	<1	250	5	290	13
L24E-300N	3	197	<10	<0.1	440	<1	<10	14	45	54
L24E-250N	9	106	<10	<0.1	220	<1	20	7	142	48
L24E-200N	1	199	50	<0.1	2070	1	60	3	314	106
L24E-150N	4	178	20	0.1	620	<1	40	9	160	134
L24E-100N	2	117	<10	<0.1	150	<1	130	7	43	58
L24E-50N	3	16	<10	<0.1	340	<1	180	3	89	20
L24E- 0N	<1	195	10	<0.1	330	<1	20	3	214	96
L24E-50S	1	58	<10	0.1	220	<1	270	12	43	40
L24E-100S	<1	108	<10	<0.1	180	<1	20	3	155	15
L24E-150S	<1	245	20	<0.1	390	<1	<10	5	140	29
L24E-200S	<1	228	10	<0.1	460	<1	30	1	521	83
L24E-250S	<1	196	<10	<0.1	330	<1	80	3	118	41
L26E-500N	2	52	<10	<0.1	260	<1	20	7	101	17
L26E-450N	<1	86	10	<0.1	750	<1	120	6	275	19
L26E-400N	<1	59	<10	3.7	230	<1	180	5	74	24
L26E-350N	<1	43	10	<0.1	260	<1	200	3	36	14
L26E-300N	<1	>300	<10	<0.1	360	<1	20	1	74	20
L26E-250N	1	188	20	<0.1	230	<1	<10	9	136	68
L26E-200N	1	77	<10	<0.1	370	<1	<10	2	132	37
L26E-150N	2	85	<10	<0.1	260	<1	20	5	144	58
L26E-100N	1	71	<10	<0.1	110	<1	<10	1	173	21
L26E-50N	3	103	20	0.4	800	2	50	7	423	265
L26E- 0N	2	147	<10	<0.1	350	<1	<10	5	144	66
L26E-50S	12	21	<10	0.5	740	<1	340	3	40	55
L26E-100S	5	200	<10	<0.1	350	<1	20	4	72	23
L26E-150S	5	238	10	<0.1	1520	<1	30	3	358	32
*Rep L16E-50N	5	168	20	<0.1	1100	<1	100	1	156	42
*Rep L18E-300N	6	239	20	<0.1	580	<1	<10	8	109	75
*Rep L22E-450N	2	216	10	<0.1	240	<1	30	14	41	73

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
*Rep L22E- 0N	5	198	<10	<0.1	360	<1	20	9	48	51
*Rep L24E-500N	<1	260	10	<0.1	410	<1	20	3	219	34
*Rep L26E-250N	1	196	20	<0.1	230	1	<10	10	110	50
*Rep L26E-150S	5	239	<10	<0.1	1340	<1	20	3	259	33
*Std MMISRM18	23	26	20	11.1	90	<1	170	72	24	69
*Std MMISRM16	15	36	10	34.5	60	<1	180	3	13	49
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppm
L16E-400N	100	150	21	10.1	8.2	30	26	105	<5	<1
L16E-350N	<100	90	23	10.3	9.3	8	31	73	<5	<1
L16E-300N	300	120	9	3.9	3.1	124	10	49	<5	2
L16E-250N	<100	1290	18	11.2	5.0	76	20	73	<5	19
L16E-200N	<100	3330	123	64.3	44.7	39	184	679	<5	20
L16E-150N	100	990	126	74.3	38.4	30	165	515	8	61
L16E-100N	<100	1420	42	25.8	12.4	204	49	150	<5	5
L16E-50N	200	230	8	4.5	3.0	184	10	54	8	20
L16E- 0N	300	190	9	4.8	3.4	139	10	59	<5	7
L16E-50S	<100	230	8	3.9	2.2	5	11	7	21	85
L18E-450N	<100	170	12	5.3	4.6	29	15	44	<5	<1
L18E-400N	<100	80	15	7.8	6.8	27	20	60	<5	<1
L18E-350N	<100	70	12	6.6	4.8	32	14	71	<5	<1
L18E-300N	200	150	12	6.5	4.7	46	13	55	<5	<1
L18E-250N	200	600	126	55.7	63.1	37	239	1150	<5	5
L18E-200N	100	170	20	11.0	7.0	48	28	104	<5	27
L18E-150N	200	50	7	3.7	2.7	74	7	38	<5	<1
L18E-100N	<100	26900	23	12.7	6.6	6	30	40	17	49
L18E-50N	<100	1010	18	8.3	6.7	38	23	151	<5	32
L18E- 0N	<100	460	5	2.7	2.0	5	9	19	18	65
L18E-50S	<100	350	29	17.2	6.8	54	30	80	<5	58
L18E-100S	<100	2670	22	12.5	6.8	51	27	135	9	36
L20E-450N	<100	140	6	3.6	2.2	45	6	36	<5	<1
L20E-400N	100	100	4	2.2	1.2	83	3	14	<5	<1
L20E-350N	<100	100	12	6.0	4.9	38	15	45	<5	<1
L20E-300N	200	420	19	8.6	6.5	113	22	120	<5	8
L20E-250N	<100	1770	30	14.3	13.6	33	51	312	<5	43
L20E-200N	200	90	12	5.8	4.7	64	13	52	<5	1
L20E-150N	<100	70	11	6.2	2.8	46	11	27	<5	1
L20E-100N	<100	990	12	5.9	4.5	36	17	68	<5	17
L20E-50N	<100	80	12	6.5	3.9	43	13	40	<5	2
L20E- 0N	<100	50	25	12.3	9.1	67	32	121	<5	1
L20E-50S	<100	60	9	4.8	2.1	40	7	17	<5	5
L20E-100S	<100	450	21	8.1	9.1	4	36	61	5	51
L20E-150S	<100	2910	18	8.5	5.0	3	26	21	12	62
L22E-550N	<100	160	21	10.2	8.3	16	27	55	<5	1
L22E-500N	<100	120	10	5.5	3.4	31	12	22	<5	1
L22E-450N	200	130	6	3.0	1.7	85	5	21	<5	7
L22E-400N	200	130	4	1.9	1.5	110	4	22	<5	2
L22E-350N	200	110	10	5.1	3.6	58	12	41	<5	1
L22E-300N	<100	90	18	8.7	7.6	16	24	57	<5	<1
L22E-250N	100	90	19	8.6	7.3	53	26	103	<5	<1
L22E-200N	<100	110	8	4.7	2.2	69	7	26	<5	3

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppm
L22E-150N	<100	110	22	10.9	6.4	49	24	72	<5	1
L22E-100N	<100	70	6	4.3	1.2	104	4	13	<5	7
L22E-50N	<100	80	7	3.9	1.5	134	5	23	<5	2
L22E- 0N	<100	140	11	6.5	2.8	37	10	23	<5	2
L22E-50S	<100	190	5	3.6	1.3	137	4	14	<5	3
L22E-100S	<100	320	5	3.5	1.1	105	4	13	7	7
L22E-150S	<100	70	43	20.5	13.6	56	49	131	<5	6
L22E-200S	200	310	10	5.3	3.6	89	11	51	<5	1
L22E-250S	<100	60	3	1.7	1.2	27	4	15	7	20
L24E-550N	<100	50	13	6.2	5.3	14	17	39	<5	<1
L24E-500N	300	60	27	12.5	12.2	74	39	219	<5	3
L24E-450N	200	130	8	4.0	3.1	102	9	48	<5	1
L24E-400N	300	190	14	6.7	5.0	104	17	85	<5	3
L24E-350N	<100	560	26	12.2	12.3	10	49	120	<5	45
L24E-300N	100	120	7	3.9	2.7	35	8	24	<5	<1
L24E-250N	<100	90	12	6.2	5.5	21	16	68	<5	2
L24E-200N	200	120	21	10.9	7.7	115	25	90	<5	15
L24E-150N	200	330	13	5.9	4.7	49	16	64	<5	1
L24E-100N	<100	60	16	8.6	5.3	23	19	45	<5	8
L24E-50N	<100	140	7	3.2	2.5	9	12	24	<5	21
L24E- 0N	200	60	14	6.3	5.5	64	17	70	<5	2
L24E-50S	<100	2310	10	6.2	2.7	37	11	20	<5	27
L24E-100S	200	110	16	6.8	6.7	39	22	61	<5	<1
L24E-150S	300	180	10	5.2	4.0	180	12	66	<5	<1
L24E-200S	300	100	23	10.0	10.1	114	31	152	<5	2
L24E-250S	200	40	11	5.1	4.1	108	13	55	<5	6
L26E-500N	<100	50	46	22.5	24.9	3	79	230	<5	1
L26E-450N	200	90	14	6.5	6.2	59	20	120	<5	9
L26E-400N	<100	70	7	3.3	2.4	41	8	31	<5	15
L26E-350N	<100	400	4	2.4	1.3	111	5	17	<5	15
L26E-300N	200	40	6	2.6	2.5	125	6	37	<5	2
L26E-250N	200	130	13	6.3	5.1	65	15	44	<5	<1
L26E-200N	<100	60	12	5.9	5.0	17	17	64	<5	<1
L26E-150N	<100	80	15	7.0	6.5	19	21	66	<5	<1
L26E-100N	<100	90	18	8.9	8.5	25	24	68	<5	<1
L26E-50N	<100	570	58	27.6	21.7	40	81	286	<5	10
L26E- 0N	<100	100	16	8.2	6.4	34	21	61	<5	<1
L26E-50S	<100	1350	149	84.5	44.0	5	215	314	8	52
L26E-100S	<100	130	11	6.2	3.7	94	11	41	<5	1
L26E-150S	<100	160	62	31.3	18.9	42	72	195	7	8
*Rep L16E-50N	200	210	10	4.9	3.4	162	10	62	7	19
*Rep L18E-300N	200	150	11	6.2	4.2	46	12	51	<5	<1
*Rep L22E-450N	100	130	6	3.2	1.9	70	6	22	<5	6

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppm
*Rep L22E- 0N	<100	140	12	6.8	2.9	36	10	25	<5	2
*Rep L24E-500N	200	50	16	7.3	7.2	89	21	115	<5	2
*Rep L26E-250N	200	130	11	5.4	4.0	69	12	37	<5	<1
*Rep L26E-150S	<100	120	46	22.2	13.1	37	51	129	7	5
*Std MMISRM18	<100	730	5	1.9	1.0	3	7	9	<5	74
*Std MMISRM16	<100	460	2	0.9	1.0	2	4	3	<5	26
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
L16E-400N	5	2.3	131	53	250	<1	31	<1	118	<1
L16E-350N	<5	1.0	142	17	110	<1	32	<1	79	<1
L16E-300N	7	13.6	52	69	280	<1	13	<1	104	1
L16E-250N	28	2.2	103	294	40	<1	25	<1	12	<1
L16E-200N	<5	1.4	960	338	110	<1	225	<1	24	<1
L16E-150N	<5	3.1	715	110	180	<1	160	<1	58	<1
L16E-100N	<5	4.9	239	166	110	<1	56	<1	56	<1
L16E-50N	6	16.9	55	115	110	<1	14	<1	69	<1
L16E- 0N	5	6.8	62	201	130	<1	15	<1	122	<1
L16E-50S	<5	<0.5	23	82	40	<1	4	<1	<5	<1
L18E-450N	<5	1.8	68	48	190	<1	16	<1	101	<1
L18E-400N	<5	1.4	88	43	160	<1	20	<1	78	<1
L18E-350N	<5	1.6	73	57	170	<1	18	<1	55	<1
L18E-300N	<5	2.7	66	58	180	<1	16	<1	67	<1
L18E-250N	<5	2.9	1540	20	70	<1	371	<1	74	<1
L18E-200N	6	3.0	142	372	50	<1	33	<1	78	<1
L18E-150N	6	7.7	36	64	130	<1	9	<1	95	<1
L18E-100N	6	0.6	83	328	120	1	16	<1	78	<1
L18E-50N	24	10.0	154	57	210	<1	41	<1	22	<1
L18E- 0N	5	<0.5	34	137	30	<1	7	<1	19	<1
L18E-50S	<5	1.7	113	278	320	<1	27	<1	44	<1
L18E-100S	23	3.7	156	139	290	<1	40	<1	96	<1
L20E-450N	<5	1.5	33	38	220	<1	9	<1	74	<1
L20E-400N	<5	4.6	14	54	170	<1	4	<1	128	<1
L20E-350N	<5	2.9	67	47	250	<1	15	<1	60	<1
L20E-300N	6	5.0	120	103	110	<1	31	<1	25	<1
L20E-250N	13	1.1	356	66	180	<1	88	<1	58	<1
L20E-200N	<5	4.6	63	66	190	<1	15	<1	111	<1
L20E-150N	<5	2.4	39	104	330	<1	9	<1	73	<1
L20E-100N	5	1.2	90	79	50	<1	21	<1	56	<1
L20E-50N	<5	4.0	53	114	150	<1	12	<1	136	<1
L20E- 0N	<5	5.6	149	54	130	<1	35	<1	88	<1
L20E-50S	<5	3.1	24	91	260	<1	5	<1	97	<1
L20E-100S	<5	<0.5	132	66	60	<1	25	<1	54	<1
L20E-150S	5	<0.5	52	112	20	<1	9	<1	59	<1
L22E-550N	5	0.8	119	35	250	<1	26	<1	116	<1
L22E-500N	<5	1.3	42	67	550	<1	9	<1	71	<1
L22E-450N	<5	4.6	22	109	660	<1	6	<1	95	<1
L22E-400N	<5	11.9	18	61	200	<1	5	<1	92	<1
L22E-350N	5	4.3	51	65	290	<1	13	<1	89	<1
L22E-300N	<5	0.7	112	41	340	<1	24	<1	87	<1
L22E-250N	6	4.7	129	81	320	<1	31	<1	108	<1
L22E-200N	<5	2.6	30	162	350	<1	7	<1	67	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
L22E-150N	<5	3.6	92	57	130	<1	21	<1	71	<1
L22E-100N	<5	3.7	16	71	260	<1	4	<1	83	<1
L22E-50N	<5	8.3	23	107	40	<1	6	<1	46	<1
L22E- 0N	<5	2.2	32	141	370	<1	7	<1	81	<1
L22E-50S	<5	4.1	16	122	240	<1	4	<1	105	<1
L22E-100S	<5	5.5	15	184	340	<1	4	<1	135	<1
L22E-150S	<5	4.1	223	50	140	<1	52	<1	39	<1
L22E-200S	<5	7.4	55	150	160	<1	14	<1	64	<1
L22E-250S	7	0.7	23	41	20	<1	5	<1	17	<1
L24E-550N	<5	1.4	76	27	80	<1	17	<1	65	<1
L24E-500N	6	12.9	237	86	110	<1	62	<1	61	<1
L24E-450N	5	9.7	50	37	240	<1	13	<1	76	<1
L24E-400N	6	6.6	93	107	210	<1	24	<1	86	<1
L24E-350N	<5	<0.5	225	275	<10	<1	46	<1	12	<1
L24E-300N	<5	1.9	31	124	250	<1	7	<1	68	<1
L24E-250N	<5	1.8	86	67	150	<1	21	<1	96	<1
L24E-200N	6	9.3	128	237	200	<1	31	<1	42	<1
L24E-150N	<5	3.5	74	121	220	<1	19	<1	114	<1
L24E-100N	<5	1.0	76	103	140	<1	17	<1	45	<1
L24E-50N	<5	0.6	45	45	30	<1	10	<1	58	<1
L24E- 0N	7	3.4	82	55	100	<1	20	<1	97	<1
L24E-50S	8	1.2	36	151	210	<1	8	<1	19	2
L24E-100S	6	3.6	96	31	120	<1	22	<1	44	<1
L24E-150S	<5	7.3	65	120	70	<1	17	<1	79	<1
L24E-200S	6	6.3	177	70	60	<1	45	<1	52	<1
L24E-250S	<5	9.6	67	90	110	<1	16	<1	47	<1
L26E-500N	6	<0.5	457	23	70	<1	97	<1	52	<1
L26E-450N	<5	5.2	133	33	70	<1	35	<1	30	<1
L26E-400N	<5	2.3	44	37	60	<1	11	<1	16	<1
L26E-350N	38	1.7	23	68	80	<1	6	<1	11	<1
L26E-300N	6	9.8	35	98	30	<1	9	<1	41	<1
L26E-250N	6	5.2	66	59	350	<1	16	<1	72	<1
L26E-200N	<5	1.2	86	26	60	<1	20	<1	70	<1
L26E-150N	<5	1.3	98	54	100	<1	23	<1	82	<1
L26E-100N	<5	<0.5	117	22	70	<1	27	<1	52	<1
L26E-50N	<5	4.1	387	288	110	<1	91	<1	86	<1
L26E- 0N	<5	2.5	98	56	230	<1	22	<1	116	<1
L26E-50S	<5	<0.5	579	79	20	<1	111	<1	31	<1
L26E-100S	<5	5.6	48	101	170	<1	11	<1	80	<1
L26E-150S	<5	8.1	337	75	310	<1	76	<1	118	<1
*Rep L16E-50N	7	16.2	61	94	120	<1	16	<1	71	<1
*Rep L18E-300N	<5	2.8	61	60	210	<1	15	<1	62	<1
*Rep L22E-450N	<5	3.7	23	99	570	<1	6	<1	93	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
*Rep L22E- 0N	<5	1.9	35	140	350	<1	8	<1	81	<1
*Rep L24E-500N	5	9.7	129	89	90	<1	33	<1	49	<1
*Rep L26E-250N	<5	5.3	56	67	420	<1	13	<1	67	<1
*Rep L26E-150S	<5	6.2	228	73	300	<1	51	<1	109	<1
*Std MMISRM18	37	<0.5	22	446	370	14	4	6	142	<1
*Std MMISRM16	43	<0.5	12	159	100	23	2	<1	253	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
L16E-400N	50	28	<1	30	<1	4	<10	24.1	523	<0.5
L16E-350N	33	33	<1	30	<1	5	<10	6.4	109	<0.5
L16E-300N	32	11	4	100	1	2	<10	39.6	3720	<0.5
L16E-250N	27	20	<1	260	<1	3	<10	10.5	152	<0.5
L16E-200N	43	188	<1	270	<1	26	<10	24.3	213	0.9
L16E-150N	103	151	<1	720	<1	24	<10	42.2	485	0.6
L16E-100N	57	51	<1	200	<1	8	<10	35.6	1010	<0.5
L16E-50N	31	11	2	340	1	2	<10	20.4	5300	<0.5
L16E- 0N	32	12	<1	190	<1	2	<10	23.5	2150	<0.5
L16E-50S	<5	7	<1	460	<1	1	<10	5.5	11	<0.5
L18E-450N	22	16	<1	20	<1	2	<10	18.0	443	<0.5
L18E-400N	41	20	<1	20	<1	3	<10	11.3	425	<0.5
L18E-350N	34	14	<1	40	<1	2	<10	8.6	424	<0.5
L18E-300N	50	15	<1	20	<1	2	<10	21.0	644	<0.5
L18E-250N	74	277	<1	300	<1	30	<10	30.0	898	0.8
L18E-200N	18	28	<1	260	<1	4	<10	22.8	829	<0.5
L18E-150N	33	8	<1	30	<1	1	<10	15.6	2120	<0.5
L18E-100N	14	23	<1	340	<1	4	<10	6.2	36	0.5
L18E-50N	19	28	<1	290	<1	4	<10	61.0	1350	<0.5
L18E- 0N	<5	8	<1	440	<1	1	<10	5.3	13	<0.5
L18E-50S	28	27	<1	390	<1	5	<10	22.7	170	<0.5
L18E-100S	21	29	<1	400	<1	4	<10	50.2	257	0.6
L20E-450N	27	7	<1	10	<1	1	<10	7.1	290	<0.5
L20E-400N	23	3	<1	110	<1	<1	<10	11.7	1320	<0.5
L20E-350N	35	15	<1	20	<1	2	<10	12.5	1010	<0.5
L20E-300N	26	23	<1	150	<1	4	<10	27.7	1810	<0.5
L20E-250N	19	60	<1	460	<1	7	<10	26.4	99	<0.5
L20E-200N	40	14	<1	60	<1	2	<10	17.6	1080	<0.5
L20E-150N	25	10	<1	80	<1	2	<10	10.8	561	<0.5
L20E-100N	11	18	<1	560	<1	2	<10	12.0	305	<0.5
L20E-50N	23	13	<1	80	<1	2	<10	12.1	1310	<0.5
L20E- 0N	26	32	<1	50	<1	5	<10	20.0	1520	<0.5
L20E-50S	19	6	<1	130	<1	1	<10	8.8	921	<0.5
L20E-100S	6	34	<1	510	<1	5	<10	10.0	15	<0.5
L20E-150S	6	17	<1	560	<1	3	<10	4.5	6	<0.5
L22E-550N	31	29	<1	50	<1	4	<10	9.8	151	<0.5
L22E-500N	33	11	<1	<10	<1	2	<10	12.3	413	<0.5
L22E-450N	24	5	1	170	<1	<1	<10	18.3	1340	<0.5
L22E-400N	25	4	4	70	1	<1	<10	12.0	4950	<0.5
L22E-350N	35	11	1	40	<1	2	<10	28.8	1340	<0.5
L22E-300N	28	25	<1	20	<1	4	<10	7.9	228	<0.5
L22E-250N	30	27	1	20	<1	4	<10	19.6	1270	<0.5
L22E-200N	22	7	<1	140	<1	1	<10	7.6	592	<0.5

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
L22E-150N	31	22	<1	70	<1	4	<10	18.5	959	<0.5
L22E-100N	19	4	<1	160	<1	<1	<10	12.7	760	<0.5
L22E-50N	22	5	<1	100	<1	<1	<10	13.9	1580	<0.5
L22E- 0N	26	8	<1	120	<1	2	<10	7.3	607	<0.5
L22E-50S	18	4	<1	140	<1	<1	<10	7.2	1030	<0.5
L22E-100S	16	3	<1	210	<1	<1	<10	21.7	1240	<0.5
L22E-150S	27	48	<1	130	<1	8	<10	25.9	896	<0.5
L22E-200S	27	12	<1	90	<1	2	<10	23.5	1420	<0.5
L22E-250S	6	4	<1	190	<1	<1	<10	6.1	104	<0.5
L24E-550N	22	18	<1	20	<1	3	<10	12.9	380	<0.5
L24E-500N	44	44	1	150	1	6	<10	51.1	3340	<0.5
L24E-450N	27	10	3	20	<1	2	<10	22.5	3580	<0.5
L24E-400N	35	18	1	60	<1	3	<10	28.4	1800	<0.5
L24E-350N	9	50	<1	440	<1	6	<10	7.2	21	<0.5
L24E-300N	27	8	<1	50	<1	1	<10	11.6	606	<0.5
L24E-250N	29	17	<1	60	<1	2	<10	7.5	683	<0.5
L24E-200N	36	26	<1	220	<1	4	<10	40.2	2500	<0.5
L24E-150N	31	16	<1	60	<1	3	<10	20.4	1070	<0.5
L24E-100N	21	18	<1	180	<1	3	<10	8.1	303	<0.5
L24E-50N	7	11	<1	270	<1	2	<10	15.8	96	<0.5
L24E- 0N	36	17	<1	50	<1	3	<10	34.8	1210	<0.5
L24E-50S	20	8	<1	260	<1	2	<10	8.8	93	<0.5
L24E-100S	33	22	<1	30	<1	3	<10	35.7	1150	<0.5
L24E-150S	41	13	<1	50	<1	2	<10	28.1	1790	<0.5
L24E-200S	44	36	<1	80	<1	5	<10	42.6	1710	<0.5
L24E-250S	28	14	2	210	<1	2	<10	19.4	3250	<0.5
L26E-500N	32	86	<1	80	<1	10	<10	3.9	47	<0.5
L26E-450N	20	24	<1	150	<1	3	<10	31.7	748	<0.5
L26E-400N	10	9	<1	150	<1	1	<10	13.6	400	<0.5
L26E-350N	11	5	<1	200	<1	<1	<10	6.8	241	<0.5
L26E-300N	25	7	<1	150	<1	1	<10	14.6	2510	<0.5
L26E-250N	43	15	1	20	<1	3	<10	21.9	1760	<0.5
L26E-200N	22	18	<1	30	<1	3	<10	12.2	322	<0.5
L26E-150N	32	21	<1	20	<1	3	<10	11.2	369	<0.5
L26E-100N	41	25	<1	<10	<1	4	<10	7.3	95	<0.5
L26E-50N	85	80	<1	110	<1	12	<10	38.9	998	0.6
L26E- 0N	34	21	<1	20	<1	3	<10	15.0	680	<0.5
L26E-50S	22	148	<1	1750	<1	28	<10	23.7	9	<0.5
L26E-100S	31	11	<1	70	<1	2	<10	12.7	1530	<0.5
L26E-150S	60	72	<1	150	<1	12	<10	55.9	1930	0.8
*Rep L16E-50N	30	12	2	310	1	2	<10	21.1	5340	<0.5
*Rep L18E-300N	46	13	<1	20	<1	2	<10	19.5	642	<0.5
*Rep L22E-450N	25	5	1	140	<1	<1	<10	17.8	1050	<0.5

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
*Rep L22E- 0N	26	8	<1	100	<1	2	<10	7.5	564	<0.5
*Rep L24E-500N	36	25	1	120	<1	3	<10	37.9	2460	<0.5
*Rep L26E-250N	36	13	1	20	<1	2	<10	20.7	1700	<0.5
*Rep L26E-150S	43	49	<1	110	<1	9	<10	43.2	1450	0.7
*Std MMISRM18	5	6	<1	930	<1	1	<10	24.5	10	<0.5
*Std MMISRM16	8	4	<1	360	<1	<1	<10	20.6	5	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	ppb	ppb	ppb	ppb	ppb	ppb
L16E-400N	9	2	96	8	110	52
L16E-350N	5	1	103	7	90	15
L16E-300N	6	2	31	3	340	79
L16E-250N	378	<1	115	10	160	22
L16E-200N	438	1	667	49	100	76
L16E-150N	18	1	619	62	360	79
L16E-100N	16	1	242	22	150	46
L16E-50N	7	1	38	4	90	73
L16E- 0N	4	<1	39	4	130	62
L16E-50S	6	<1	39	3	180	5
L18E-450N	5	<1	45	4	160	34
L18E-400N	4	<1	72	6	130	27
L18E-350N	4	<1	67	5	120	24
L18E-300N	6	<1	52	6	50	49
L18E-250N	24	1	633	41	80	43
L18E-200N	15	<1	96	9	30	37
L18E-150N	4	<1	27	3	30	34
L18E-100N	17	<1	140	10	100	33
L18E-50N	45	2	72	7	90	111
L18E- 0N	12	<1	26	2	140	<5
L18E-50S	47	<1	150	13	440	43
L18E-100S	70	<1	108	11	480	91
L20E-450N	3	<1	28	3	120	21
L20E-400N	3	<1	17	2	630	31
L20E-350N	5	<1	51	5	80	33
L20E-300N	12	<1	82	6	50	42
L20E-250N	25	<1	147	12	90	27
L20E-200N	5	<1	46	5	120	39
L20E-150N	4	<1	52	5	190	22
L20E-100N	6	<1	51	5	20	13
L20E-50N	5	<1	55	5	20	27
L20E- 0N	6	<1	111	9	20	38
L20E-50S	3	<1	38	4	450	20
L20E-100S	8	<1	80	6	40	6
L20E-150S	4	<1	82	6	50	<5
L22E-550N	6	8	91	8	110	18
L22E-500N	5	<1	43	4	270	27
L22E-450N	5	<1	24	2	450	44
L22E-400N	3	1	17	2	220	48
L22E-350N	4	1	39	4	350	57
L22E-300N	4	<1	84	7	90	16
L22E-250N	6	<1	79	6	290	39
L22E-200N	3	<1	36	4	80	19

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	ppb	ppb	ppb	ppb	ppb	ppb
L22E-150N	5	<1	95	8	190	34
L22E-100N	3	<1	27	5	130	21
L22E-50N	5	<1	26	4	130	29
L22E- 0N	4	<1	57	5	550	18
L22E-50S	3	<1	22	3	190	20
L22E-100S	3	<1	23	3	180	39
L22E-150S	7	<1	198	13	100	32
L22E-200S	4	<1	39	4	130	40
L22E-250S	5	8	15	1	150	11
L24E-550N	5	<1	47	5	70	20
L24E-500N	12	2	103	9	110	70
L24E-450N	5	<1	30	3	90	53
L24E-400N	5	<1	55	5	140	56
L24E-350N	54	<1	130	9	30	8
L24E-300N	4	<1	29	3	180	29
L24E-250N	3	<1	54	5	160	19
L24E-200N	9	1	87	10	80	70
L24E-150N	6	<1	45	5	710	38
L24E-100N	12	<1	71	7	100	12
L24E-50N	8	<1	27	2	30	9
L24E- 0N	7	<1	44	5	130	53
L24E-50S	120	<1	44	5	340	19
L24E-100S	9	<1	51	5	160	48
L24E-150S	5	<1	39	4	170	57
L24E-200S	8	1	77	8	90	63
L24E-250S	6	<1	45	4	210	41
L26E-500N	5	<1	274	16	110	7
L26E-450N	6	<1	57	5	180	48
L26E-400N	4	<1	29	3	90	18
L26E-350N	7	<1	20	2	120	15
L26E-300N	3	<1	21	2	200	33
L26E-250N	6	<1	47	6	240	52
L26E-200N	4	<1	51	4	60	25
L26E-150N	6	<1	60	5	140	23
L26E-100N	6	<1	76	7	30	16
L26E-50N	9	1	247	21	170	69
L26E- 0N	6	<1	67	6	40	36
L26E-50S	13	<1	750	59	90	16
L26E-100S	4	<1	48	5	80	30
L26E-150S	7	<1	274	24	70	115
*Rep L16E-50N	8	1	41	4	100	72
*Rep L18E-300N	6	<1	48	5	60	45
*Rep L22E-450N	5	<1	25	3	380	41

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	ppb	ppb	ppb	ppb	ppb	ppb
*Rep L22E- 0N	4	<1	57	5	400	18
*Rep L24E-500N	9	1	60	6	160	51
*Rep L26E-250N	5	<1	40	5	270	48
*Rep L26E-150S	5	<1	192	16	60	84
*Std MMISRM18	24	<1	24	1	610	22
*Std MMISRM16	44	<1	8	<1	160	11
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5

	001 - LA	002 - LA	003 - LB	004 - LA	005 - LB	006 - LB	007 - LA	008 - LB	009 - LB	010 - LB	011 - LA	012 - LB	013 - LBA	014 - LB
L0E 50N	39	133	96	6	77	657	14	122	21	12	7	3	5	6
L0E 0N	39	151	82	6	82	655	12	120	21	15	6	6	4	7
L0E 50S	34	119	123	3	101	782	10	104	19	15	3	6	-1	6
L0E 100S	46	152	382	5	144	959	16	127	22	12	6	2	-1	4
L0E 150S	39	94	110	8	70	625	17	129	23	12	9	2	5	9
L0E 150S-R	41	155	108	6	81	510	19	122	22	12	9	2	5	9
L0E 200S	41	213	316	7	128	851	16	159	28	19	9	9	5	8
L0E 250S	39	123	146	11	59	538	16	169	31	20	11	2	-1	14
L0E 300S	29	124	104	5	16	89	10	24	4	3	3	1	2	2
L0E 350S	35	82	131	6	17	124	9	32	5	4	3	2	3	2
L0E 400S	40	385	239	9	43	257	12	61	11	8	11	3	3	3
L0E 450S	62	214	296	24	75	655	64	156	28	16	44	5	12	5
L0E 500S	52	197	210	45	102	862	38	370	67	42	33	19	13	25
L2E 150N	34	74	77	5	24	192	5	34	6	5	-1	3	2	2
L2E 100N	51	159	617	9	179	1130	15	191	35	22	9	7	3	8
L2E 50N	50	111	826	6	205	1220	13	176	31	14	7	4	-1	4
L2E 0N	43	111	699	15	148	1000	12	205	37	18	5	4	-1	7
L2E 50S	51	167	488	8	93	759	24	168	30	21	9	8	6	8
L2E 100S	66	212	640	9	117	859	18	191	35	19	10	4	5	10
L2E 150S	59	100	641	8	115	652	11	157	28	18	10	4	7	6
L2E 200S	37	129	55	8	14	114	4	37	6	5	1	3	4	4
L2E 200S-R	35	77	56	5	14	119	6	39	7	6	1	3	4	4
L2E 250S	52	105	700	11	93	918	17	176	31	17	11	6	5	5
L2E 300S	51	135	415	7	168	948	17	172	31	16	11	3	5	6
L2E 350S	50	48	349	10	74	866	20	123	22	12	9	2	6	5
L2E 400S	44	107	132	11	44	348	13	59	10	6	5	2	4	3
L4E 200N	35	140	506	4	59	449	14	115	20	16	4	5	-1	2
L4E 150N	31	125	87	2	21	92	5	26	5	4	2	2	-1	2
L4E 100N	30	65	102	19	23	206	10	67	12	10	4	5	-1	5
L4E 50N	47	120	359	5	123	516	16	165	29	13	8	1	6	7
L4E 0N	46	206	1060	10	115	964	23	204	36	24	10	10	-1	8
L4E 50S	57	136	640	5	253	1030	19	122	22	12	9	3	-1	3
L4E 100S	53	136	676	7	186	1130	14	188	34	17	14	2	1	6
L4E 150S	50	103	263	8	64	504	24	69	12	8	12	4	-1	2
L4E 200S	63	219	289	11	89	707	24	93	16	9	15	2	6	4
L4E 250S	52	166	472	11	136	892	25	116	21	13	13	5	7	5
L4E 300S	57	202	1060	8	450	1760	19	271	48	25	5	4	-1	5
L4E 300S-R	47	90	795	11	154	1110	17	219	39	16	5	3	-1	4
L6E 200N	91	217	1500	19	435	1550	38	252	47	26	16	9	8	6
L6E 150N	31	56	308	9	40	579	7	105	19	13	-1	8	-1	4
L6E 100N	58	190	718	9	98	858	18	127	23	14	10	2	-1	4
L6E 50N	60	252	1110	13	160	1190	22	239	43	23	12	3	6	7
L6E 0N	54	152	664	12	123	1050	23	197	36	17	18	2	1	9
L6E 50S	93	182	1240	19	253	1080	35	296	55	28	17	4	10	10
L8E 300N	13	74	286	10	22	220	4	56	10	6	-1	3	1	2
L8E 250N	30	72	243	10	24	160	4	44	8	8	-1	3	2	2
L8E 200N	35	128	452	10	35	230	4	85	15	12	-1	5	2	3
L8E 150N	38	87	358	12	28	220	4	81	15	10	-1	4	4	3
L8E 100N	70	223	1410	29	193	776	12	443	81	40	-1	19	4	10
L8E 50N	64	278	1330	34	182	808	16	531	100	41	1	17	5	10
L8E 0N	39	95	340	15	91	447	6	155	27	15	-1	8	3	5
L8E 50S	55	238	953	25	201	808	9	316	58	31	1	14	4	9
L8E 100S	94	778	2260	55	456	1320	23	1130	211	72	2	30	-1	12
L8E 100S-R	86	605	2090	51	254	1470	20	1070	199	66	3	28	-1	13

	001 - LA	002 - LA	003 - LB	004 - LA	005 - LB	006 - LB	007 - LA	008 - LB	009 - LB	010 - LB	011 - LA	012 - LB	013 - LBA	014 - LB
L10E 350N	37	90	241	6	100	803	10	148	26	16	5	2	-1	5
L10E 300N	40	109	355	7	120	795	13	220	39	18	7	2	-1	8
L10E 250N	36	167	126	9	43	448	9	84	15	11	4	6	3	7
L10E 200N	50	105	301	8	110	661	11	107	20	9	5	3	2	5
L10E 150N	48	128	428	9	176	1040	13	214	38	13	7	2	4	10
L10E 100N	55	167	480	12	118	1040	15	179	32	14	10	2	4	8
L10E 50N	60	156	814	5	190	1030	10	156	26	10	5	2	4	5
L10E 0N	39	109	261	6	58	405	6	72	13	7	4	-1	2	3
L10E 50S	31	76	140	5	42	250	9	58	11	6	3	5	2	4
L12E 350N	52	142	538	4	151	762	12	146	26	11	12	3	5	7
L12E 300N	53	186	185	6	1	233	7	55	10	6	5	2	2	3
L12E 250N	47	126	711	6	133	702	12	153	27	14	6	3	3	5
L12E 200N	66	150	1030	7	183	716	20	162	29	13	8	2	2	5
L12E 150N	70	170	1490	11	210	1290	22	299	54	21	13	3	7	10
L12E 100N	32	133	284	11	23	205	6	43	8	4	2	-1	2	3
L12E 100N-R	33	79	245	5	25	167	7	32	5	3	2	1	-1	-1
L12E 50N	31	65	349	8	48	386	8	93	17	8	2	1	3	3
L12E 0N	44	145	594	14	79	645	14	129	23	14	8	6	4	3
L12E 50S	59	215	1300	11	189	984	10	213	38	20	4	2	3	6
L14E 350N	65	743	1600	50	814	1360	21	1240	218	69	5	43	-1	33
L14E 300N	45	205	494	19	260	1220	11	608	111	41	2	17	-1	21
L14E 250N	55	229	1290	15	472	1130	15	817	148	51	2	25	-1	15
L14E 200N	49	216	623	21	184	1120	13	522	96	35	3	19	-1	17
L14E 150N	64	199	141	3	193	543	10	287	54	32	2	12	-1	12
L14E 100N	46	254	406	16	186	899	13	603	111	45	2	27	-1	20
L14E 50N	38	178	218	5	80	534	8	300	54	33	2	15	-1	11
L14E 0N	47	144	732	30	170	1100	11	505	93	46	2	4	-1	11
L14E 50S	46	134	819	6	80	374	4	91	16	9	-1	3	-1	1
L16E 400N	48	555	438	34	53	727	13	991	183	74	3	9	-1	21
L16E 350N	56	614	264	50	70	414	17	694	129	61	3	20	-1	22
L16E 300N	53	202	719	23	91	645	10	560	102	39	2	18	-1	12
L16E 300N-R	46	175	740	19	93	788	11	592	109	56	2	17	-1	11
L16E 250N	30	77	618	3	64	506	5	148	27	15	1	6	2	3
L16E 200N	44	115	508	9	160	566	6	264	48	20	1	9	2	6
L16E 150N	69	350	1460	25	287	1370	15	752	140	58	4	23	-1	13
L16E 100N	40	231	70	5	51	423	6	183	33	16	1	6	2	5
L16E 50N	81	265	779	17	220	809	10	527	95	38	2	19	4	16
L16E 0N	83	658	1330	11	212	921	12	798	151	72	2	31	3	24
L16E 50S	51	305	794	100	208	1440	64	1570	284	87	21	49	9	32
L18E 450N	38	170	392	19	114	822	7	145	26	15	4	2	-1	5
L18E 400N	51	143	761	32	127	919	9	194	35	15	3	2	2	3
L18E 350N	41	86	422	10	77	785	8	160	28	12	4	2	2	4
L18E 300N	72	115	1000	15	92	862	12	109	20	13	4	6	-1	4
L18E 250N	37	84	327	12	40	383	7	83	15	4	4	5	-1	4
L18E 200N	41	160	272	6	52	331	6	80	14	8	4	2	2	3
L18E 150N	45	147	386	9	57	382	11	96	17	6	5	-1	-1	4
L18E 100N	59	67	146	4	36	136	5	22	4	2	3	-1	-1	-1
L18E 100N-R	31	62	151	4	1	128	5	20	3	2	3	-1	2	-1
L18E 50N	37	78	137	6	37	257	6	52	9	7	6	2	4	3
L18E 0N	59	277	205	28	124	586	8	93	16	7	6	2	-1	3
L18E 50S	53	109	288	5	80	446	5	54	10	7	-1	2	3	3
L18E 100S	41	85	258	9	40	402	10	58	10	6	7	2	4	1
L20E 450N	47	163	660	8	182	1120	11	263	47	16	9	2	2	3
L20E 400N	60	162	1010	9	176	922	11	230	40	17	8	3	2	5

	001 - LA	002 - LA	003 - LB	004 - LA	005 - LB	006 - LB	007 - LA	008 - LB	009 - LB	010 - LB	011 - LA	012 - LB	013 - LBA	014 - LB
L20E 350N	56	186	233	12	125	581	11	128	23	12	12	2	6	6
L20E 300N	51	181	223	10	59	453	12	129	23	12	11	2	-1	5
L20E 250N	44	189	531	9	60	566	18	123	22	13	14	5	3	4
L20E 200N	50	143	625	12	110	908	9	161	29	15	7	2	3	5
L20E 150N	79	191	674	11	136	897	12	207	37	21	12	3	4	8
L20E 100N	88	193	348	10	74	324	12	69	12	6	12	1	4	2
L20E 50N	67	321	1120	22	133	764	12	182	32	17	9	2	3	2
L20E 0N	85	214	781	10	192	905	9	135	25	12	6	3	5	4
L20E 50S	77	286	1470	27	300	1380	22	363	67	25	26	4	13	14
L20E 50S-R	67	107	1250	47	62	1450	21	311	59	26	27	3	3	17
L20E 100S	49	210	337	7	103	437	11	66	11	7	10	3	5	4
L20E 150S	60	364	566	15	230	802	18	128	23	11	21	3	9	5
L22E 550N	38	157	296	9	258	1030	7	198	35	17	6	4	1	6
L22E 500N	42	186	260	12	101	661	7	121	22	10	3	2	-1	3
L22E 450N	60	125	253	18	56	418	6	49	9	5	2	2	3	2
L22E 400N	73	178	458	15	168	694	8	104	19	9	5	3	3	5
L22E 350N	47	153	285	6	32	273	5	42	7	4	1	3	2	2
L22E 300N	42	131	429	22	103	883	5	119	21	12	4	1	3	5
L22E 250N	44	108	187	5	56	357	5	86	15	8	3	5	2	4
L22E 200N	63	235	453	24	111	577	6	81	15	10	-1	4	3	3
L22E 150N	32	71	19	9	6	34	2	8	1	1	-1	-1	1	-1
L22E 100N	59	159	432	10	110	516	6	71	13	6	3	1	-1	2
L22E 50N	37	122	178	4	31	171	3	18	3	2	-1	-1	1	-1
L22E 0N	82	274	666	33	119	598	7	67	12	6	4	3	4	2
L22E 50S	78	235	612	23	174	763	7	92	16	9	5	4	4	3
L22E 50S-R	69	230	551	25	129	609	6	75	13	8	4	4	3	2
L22E 100S	60	183	706	12	113	1030	7	120	22	11	3	1	-1	2
L22E 150S	31	69	121	3	33	242	3	20	4	3	-1	1	-1	-1
L22E 200S	29	77	36	5	9	76	2	8	1	-1	-1	-1	-1	-1
L22E 250S	41	121	441	4	212	777	7	96	17	7	3	1	2	2
L24E 550N	47	167	635	9	349	1360	8	240	42	15	4	2	-1	6
L24E 500N	38	111	239	7	60	309	4	33	6	2	-1	2	-1	1
L24E 450N	44	94	220	8	219	641	6	144	25	9	4	1	4	5
L24E 400N	53	154	375	14	181	521	5	102	18	6	2	1	-1	3
L24E 350N	35	68	87	3	33	137	2	17	3	2	-1	-1	-1	-1
L24E 300N	53	161	381	5	199	566	7	134	24	12	5	1	3	2
L24E 250N	43	133	298	17	96	568	5	86	16	7	2	4	-1	3
L24E 200N	51	130	270	16	67	398	5	77	14	9	2	-1	2	3
L24E 150N	50	190	451	23	156	847	6	182	33	12	3	2	-1	5
L24E 100N	55	58	487	19	241	956	6	274	50	24	5	12	5	8
L24E 50N	44	40	12	2	8	35	4	9	1	-1	-1	-1	-1	-1
L24E 0N	57	47	120	11	257	693	6	137	24	9	4	6	6	4
L24E 50S	43	37	9	8	9	39	3	5	-1	-1	-1	-1	-1	-1
L24E 50S-R	43	31	12	9	10	64	5	9	2	1	-1	-1	-1	-1
L24E 100S	42	16	5	4	2	6	4	-1	-1	-1	-1	-1	-1	-1
L24E 150S	64	59	222	15	362	810	6	116	21	8	4	3	4	-1
L24E 200S	45	33	14	2	14	65	4	14	2	1	-1	-1	-1	-1
L24E 250S	70	96	548	27	318	916	14	164	29	13	6	2	3	3
L26E 500N	43	32	10	12	7	33	5	19	3	3	2	-1	2	-1
L26E 450N	47	51	80	20	119	348	11	98	18	9	8	2	4	-1
L26E 400N	55	55	86	21	105	290	12	69	13	7	10	2	4	-1
L26E 350N	43	53	80	17	61	187	9	42	7	6	4	2	2	-1
L26E 300N	51	67	650	16	181	603	6	117	21	11	2	1	4	-1
L26E 250N	68	109	609	19	494	990	10	270	49	21	7	2	6	-1

	001 - LA	002 - LA	003 - LB	004 - LA	005 - LB	006 - LB	007 - LA	008 - LB	009 - LB	010 - LB	011 - LA	012 - LB	013 - LBA	014 - LB
L26E 200N	61	89	218	13	262	547	9	199	36	12	6	2	4	3
L26E 150N	91	144	702	19	625	881	11	323	61	24	11	3	5	4
L26E 100N	50	43	56	8	68	184	5	51	10	5	3	1	-1	-1
L26E 100N-R	54	41	56	3	63	201	5	51	9	5	2	2	1	2
L26E 50N	57	73	238	13	273	538	12	164	4	9	8	2	8	-1
L26E 0N	66	65	213	7	341	573	8	95	3	9	5	1	3	-1
L26E 50S	34	19	9	7	2	4	3	13	-1	-1	-1	-1	-1	-1
L26E 100S	33	35	7	6	2	3	3	-1	-1	-1	-1	-1	-1	-1
L26E 150S	91	143	661	13	644	1200	17	251	46	17	16	1	8	-1
LMB-QA	26	77	5	8	-1	-1	4	2	-1	-1	-1	-1	-1	-1
LMB-QA	32	69	5	7	-1	-1	3	3	-1	-1	-1	-1	-1	-1
LMB-QA	23	79	4	7	-1	-1	4	3	-1	-1	-1	-1	-1	-1
LMB-QA	36	33	6	7	-1	-1	3	-1	-1	-1	-1	-1	-1	-1

SOIL GAS HYDROCARBONS (SGH) by GC/MS

A09-6505 - Date: November 9, 2009 - Activation Laboratories Ltd.
Results represent only the material tested. Actlabs is not liable for any claim/damage from use of this report in excess of the test cost. Unless requested samples are discarded in 90 days.
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Golden Chalice Resources - Kevin Montgomery
Penhorwood Property - West Timmins Project

R=Replicate Sample
-1=Reporting Limit of 1pg/g (ppt=parts per trillion)
LMB-QA = Laboratory Materials Blank - Quality Assurance

LEGEND FOR COLUMN HEADINGS - SGH COMPOUND CLASSES

LA, HA, LBA, HBA = ALKYL-ALKANES
LB, HB, LPB, HPB = ALKYL-BENZENES
LAR, MAR, HAR = ALKYL-AROMATICS
LBI, MBI, HBI, LPH, MPH, HPH = ALKYL-POLYAROMATICS
THI = ALKYL-DIVINYLENE SULPHIDES
ALK = ALKYL-ALKENES

	015 - LAR	016 - LB	017 - LB	018 - LB	019 - LB	020 - LA	021 - LPH	022 - LBA	023 - LAR	024 - LB	025 - LAR	026 - LBA	027 - LB	028 - ALK
L0E 50N	-1	14	22	24	14	3	-1	2	-1	-1	-1	5	6	1
L0E 0N	-1	19	32	33	20	-1	-1	3	-1	-1	-1	5	5	2
L0E 50S	-1	13	22	23	14	-1	-1	2	-1	-1	-1	3	4	1
L0E 100S	-1	12	20	21	13	2	-1	2	-1	-1	-1	4	3	1
L0E 150S	-1	21	38	40	24	4	-1	3	-1	-1	-1	6	6	2
L0E 150S-R	-1	24	39	41	25	4	-1	3	-1	-1	-1	6	7	2
L0E 200S	-1	21	35	37	23	4	-1	3	1	-1	-1	7	6	2
L0E 250S	-1	41	68	71	45	4	-1	4	-1	-1	-1	8	5	2
L0E 300S	-1	5	9	9	6	2	-1	1	-1	-1	-1	2	-1	-1
L0E 350S	-1	4	8	8	5	2	-1	1	-1	-1	-1	2	-1	-1
L0E 400S	-1	9	16	16	10	4	-1	2	-1	-1	-1	4	-1	-1
L0E 450S	-1	11	18	19	11	14	-1	7	-1	-1	-1	17	2	4
L0E 500S	-1	71	123	128	81	-1	-1	11	-1	1	-1	21	2	5
L2E 150N	-1	5	9	9	6	-1	-1	-1	-1	-1	-1	1	2	-1
L2E 100N	-1	15	27	28	17	4	-1	5	-1	-1	-1	2	3	-1
L2E 50N	-1	8	14	15	9	3	-1	4	-1	-1	-1	1	2	-1
L2E 0N	-1	16	31	32	20	3	-1	3	-1	-1	-1	2	3	-1
L2E 50S	-1	19	31	33	20	5	-1	6	-1	-1	-1	3	4	1
L2E 100S	-1	24	40	41	24	5	-1	2	1	-1	-1	4	3	2
L2E 150S	-1	15	25	26	16	5	-1	6	-1	-1	-1	2	4	1
L2E 200S	-1	12	20	21	13	1	-1	-1	-1	-1	-1	-1	3	-1
L2E 200S-R	-1	11	20	21	13	-1	-1	-1	-1	-1	-1	1	3	-1
L2E 250S	-1	14	24	25	16	4	-1	5	-1	-1	-1	2	3	-1
L2E 300S	-1	13	22	23	13	4	-1	1	1	-1	-1	2	4	1
L2E 350S	-1	9	19	20	13	4	-1	-1	-1	-1	-1	2	3	1
L2E 400S	-1	4	7	8	5	2	-1	-1	-1	-1	-1	2	-1	-1
L4E 200N	-1	9	16	17	10	3	-1	1	-1	-1	-1	3	4	1
L4E 150N	-1	7	13	13	8	-1	-1	-1	-1	-1	-1	2	2	-1
L4E 100N	-1	12	23	24	16	2	-1	1	-1	-1	-1	2	3	-1
L4E 50N	-1	15	17	18	16	2	-1	2	-1	-1	-1	4	4	2
L4E 0N	-1	17	29	31	19	3	-1	4	-1	-1	-1	7	6	2
L4E 50S	-1	9	9	9	8	-1	-1	4	-1	-1	-1	8	4	2
L4E 100S	-1	12	11	17	17	-1	-1	3	2	-1	-1	8	6	3
L4E 150S	-1	5	5	5	5	-1	-1	5	-1	-1	-1	12	2	3
L4E 200S	-1	7	7	8	8	-1	-1	5	2	-1	-1	13	2	3
L4E 250S	-1	8	8	9	9	-1	-1	4	2	-1	-1	8	3	3
L4E 300S	-1	13	23	24	14	-1	-1	2	-1	-1	-1	5	5	2
L4E 300S-R	-1	12	22	23	14	1	-1	2	-1	-1	-1	3	5	2
L6E 200N	1	14	22	24	14	5	-1	4	2	-1	-1	5	3	2
L6E 150N	-1	8	16	17	11	-1	-1	1	-1	-1	-1	2	1	-1
L6E 100N	-1	7	6	7	7	-1	-1	3	1	-1	-1	6	3	2
L6E 50N	-1	14	27	28	17	-1	-1	2	-1	-1	-1	5	4	2
L6E 0N	-1	18	31	32	20	-1	-1	5	1	-1	-1	12	3	3
L6E 50S	1	19	20	22	20	-1	-1	3	2	-1	-1	6	5	3
L8E 300N	-1	5	10	11	7	-1	-1	-1	-1	-1	-1	-1	-1	-1
L8E 250N	-1	5	10	10	7	-1	-1	-1	-1	-1	-1	-1	-1	-1
L8E 200N	-1	9	15	16	10	-1	-1	-1	-1	-1	-1	-1	-1	-1
L8E 150N	-1	6	10	11	7	-1	-1	-1	-1	-1	-1	1	1	-1
L8E 100N	-1	22	38	39	22	3	-1	4	-1	-1	-1	2	1	-1
L8E 50N	-1	26	44	46	27	2	-1	3	-1	-1	-1	2	2	-1
L8E 0N	-1	12	20	21	13	-1	-1	-1	-1	-1	-1	1	-1	-1
L8E 50S	-1	18	30	31	19	2	-1	3	-1	-1	-1	1	-1	-1
L8E 100S	-1	46	83	85	51	4	-1	5	-1	1	-1	3	2	-1
L8E 100S-R	-1	44	80	83	50	4	-1	5	-1	1	-1	2	2	-1

	015 - LAR	016 - LB	017 - LB	018 - LB	019 - LB	020 - LA	021 - LPH	022 - LBA	023 - LAR	024 - LB	025 - LAR	026 - LBA	027 - LB	028 - ALK
L10E 350N	-1	10	19	19	12	3	-1	2	-1	-1	-1	3	4	1
L10E 300N	-1	22	39	41	25	3	-1	2	-1	-1	-1	3	5	1
L10E 250N	-1	14	27	28	18	2	-1	-1	-1	-1	-1	2	3	1
L10E 200N	-1	10	18	19	12	-1	-1	1	1	-1	-1	2	2	1
L10E 150N	-1	23	40	42	25	2	-1	2	-1	-1	-1	4	5	1
L10E 100N	-1	12	22	24	14	4	-1	2	1	-1	-1	6	5	2
L10E 50N	-1	10	17	17	10	1	-1	2	-1	-1	-1	3	4	1
L10E 0N	-1	6	10	11	7	-1	-1	1	-1	-1	-1	2	1	-1
L10E 50S	-1	9	18	19	12	1	-1	-1	-1	-1	-1	2	-1	-1
L12E 350N	-1	13	24	25	15	7	-1	9	-1	-1	-1	3	3	1
L12E 300N	-1	4	7	8	5	2	-1	-1	-1	-1	-1	1	1	-1
L12E 250N	-1	13	24	25	16	2	-1	-1	-1	-1	-1	1	4	-1
L12E 200N	-1	10	11	12	11	4	-1	5	-1	-1	-1	1	7	1
L12E 150N	1	20	38	40	24	5	-1	6	-1	-1	-1	2	5	1
L12E 100N	-1	4	8	9	6	-1	-1	-1	-1	-1	-1	-1	1	-1
L12E 100N-R	-1	2	3	3	2	-1	-1	-1	-1	-1	-1	-1	-1	-1
L12E 50N	-1	7	13	13	8	1	-1	-1	-1	-1	-1	1	1	-1
L12E 0N	-1	5	5	6	6	2	-1	3	-1	-1	-1	1	2	-1
L12E 50S	-1	14	23	25	15	2	-1	3	-1	-1	-1	1	3	-1
L14E 350N	-1	69	115	118	72	4	-1	4	-1	1	-1	2	2	-1
L14E 300N	-1	49	81	83	51	2	-1	3	-1	1	-1	2	1	-1
L14E 250N	-1	34	63	65	40	2	-1	3	-1	-1	-1	2	2	-1
L14E 200N	-1	34	66	69	42	3	-1	4	-1	1	-1	2	2	1
L14E 150N	-1	34	52	54	32	2	-1	3	-1	-1	-1	2	1	-1
L14E 100N	-1	35	65	68	43	3	-1	4	-1	-1	-1	2	2	1
L14E 50N	-1	27	47	49	30	2	-1	3	-1	-1	-1	1	-1	-1
L14E 0N	-1	25	44	46	29	2	-1	-1	-1	-1	-1	2	2	-1
L14E 50S	-1	4	6	7	4	-1	-1	-1	-1	-1	-1	-1	-1	-1
L16E 400N	-1	59	114	120	77	5	-1	5	-1	2	-1	3	2	-1
L16E 350N	-1	53	101	105	64	5	-1	6	-1	3	-1	3	2	-1
L16E 300N	-1	34	62	65	40	3	-1	4	-1	1	-1	2	2	-1
L16E 300N-R	-1	34	60	63	38	3	-1	4	-1	1	-1	2	2	1
L16E 250N	-1	8	14	15	9	-1	-1	-1	-1	-1	-1	-1	-1	-1
L16E 200N	-1	14	22	23	14	1	-1	2	-1	-1	-1	-1	-1	-1
L16E 150N	-1	35	60	62	38	4	-1	5	-1	-1	-1	2	2	-1
L16E 100N	-1	9	16	17	11	1	-1	2	-1	-1	-1	-1	-1	-1
L16E 50N	-1	28	46	47	29	4	-1	5	-1	-1	-1	2	1	1
L16E 0N	-1	45	82	84	50	3	-1	4	-1	2	-1	2	1	1
L16E 50S	2	97	167	173	107	24	-1	27	-1	4	-1	7	2	4
L18E 450N	-1	8	10	11	10	1	-1	1	-1	-1	-1	3	3	1
L18E 400N	-1	9	17	18	11	-1	-1	2	-1	-1	-1	4	2	1
L18E 350N	-1	8	15	15	9	-1	-1	2	-1	-1	-1	4	2	2
L18E 300N	-1	6	11	12	7	-1	-1	3	-1	-1	-1	6	2	2
L18E 250N	-1	8	14	15	10	-1	-1	1	-1	-1	-1	4	3	1
L18E 200N	-1	8	13	13	8	-1	-1	1	-1	-1	-1	3	4	1
L18E 150N	-1	9	16	16	9	-1	-1	2	-1	-1	-1	5	4	2
L18E 100N	-1	3	5	5	3	1	-1	-1	-1	-1	-1	2	-1	-1
L18E 100N-R	-1	2	4	4	3	1	-1	-1	-1	-1	-1	2	-1	-1
L18E 50N	-1	7	14	14	9	2	-1	2	-1	-1	-1	3	1	-1
L18E 0N	-1	5	9	9	5	-1	-1	2	-1	-1	-1	4	2	1
L18E 50S	-1	7	11	12	7	-1	-1	3	-1	-1	-1	5	-1	1
L18E 100S	-1	3	5	5	3	1	-1	2	-1	-1	-1	3	-1	-1
L20E 450N	-1	15	13	14	14	2	-1	2	1	-1	-1	3	10	2
L20E 400N	-1	12	11	12	11	1	-1	2	1	-1	-1	5	7	2

	015 - LAR	016 - LB	017 - LB	018 - LB	019 - LB	020 - LA	021 - LPH	022 - LBA	023 - LAR	024 - LB	025 - LAR	026 - LBA	027 - LB	028 - ALK
L20E 350N	-1	11	10	11	9	4	-1	4	2	-1	-1	10	2	3
L20E 300N	-1	10	10	11	10	2	-1	3	2	-1	-1	6	7	3
L20E 250N	-1	7	8	8	8	4	-1	3	1	-1	-1	7	5	3
L20E 200N	-1	13	24	25	15	-1	-1	2	1	-1	-1	5	6	2
L20E 150N	-1	19	31	32	19	-1	-1	4	2	-1	-1	10	8	3
L20E 100N	-1	4	4	4	4	3	-1	2	1	-1	-1	5	2	2
L20E 50N	-1	9	8	9	9	2	-1	2	1	-1	-1	3	8	2
L20E 0N	-1	9	14	14	8	-1	-1	1	1	-1	-1	2	5	1
L20E 50S	-1	35	59	62	37	7	-1	6	3	-1	-1	15	14	4
L20E 50S-R	1	24	50	55	35	5	-1	6	2	-1	-1	14	2	4
L20E 100S	-1	4	4	5	5	4	-1	5	-1	-1	-1	3	1	1
L20E 150S	-1	8	14	15	9	10	-1	12	-1	-1	-1	6	1	2
L22E 550N	-1	12	21	22	14	-1	-1	1	1	-1	-1	3	3	2
L22E 500N	-1	7	12	13	8	-1	-1	2	-1	-1	-1	5	1	2
L22E 450N	-1	2	4	4	3	-1	-1	2	1	-1	-1	5	-1	1
L22E 400N	-1	6	11	12	7	-1	-1	3	2	-1	-1	6	-1	2
L22E 350N	-1	2	4	5	3	-1	-1	1	-1	-1	-1	3	-1	-1
L22E 300N	-1	7	15	16	10	-1	-1	1	-1	-1	-1	4	2	1
L22E 250N	-1	6	11	12	7	-1	-1	2	-1	-1	-1	4	2	1
L22E 200N	-1	5	10	10	6	-1	-1	2	-1	-1	-1	4	-1	-1
L22E 150N	-1	2	3	3	2	-1	-1	-1	-1	-1	-1	1	-1	-1
L22E 100N	-1	6	10	10	6	-1	-1	2	-1	-1	-1	5	1	1
L22E 50N	-1	1	2	2	1	-1	-1	-1	-1	-1	-1	2	-1	-1
L22E 0N	-1	3	6	6	4	-1	-1	2	-1	-1	-1	5	1	1
L22E 50S	-1	4	7	7	4	-1	-1	2	-1	-1	-1	5	-1	1
L22E 50S-R	-1	4	7	7	4	-1	-1	2	-1	-1	-1	5	1	1
L22E 100S	-1	5	9	9	6	-1	-1	1	-1	-1	-1	4	1	-1
L22E 150S	-1	2	3	4	2	-1	-1	-1	-1	-1	-1	-1	-1	-1
L22E 200S	-1	1	2	2	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
L22E 250S	-1	5	8	9	5	-1	-1	-1	-1	-1	-1	1	2	-1
L24E 550N	-1	14	24	25	15	-1	-1	1	-1	-1	-1	3	2	-1
L24E 500N	-1	3	4	5	3	-1	-1	1	-1	-1	-1	3	-1	-1
L24E 450N	-1	10	10	10	9	-1	-1	2	-1	-1	-1	4	3	2
L24E 400N	-1	6	6	6	6	-1	-1	1	-1	-1	-1	3	1	-1
L24E 350N	-1	1	2	2	1	-1	-1	-1	-1	-1	-1	1	-1	-1
L24E 300N	-1	7	6	6	6	-1	-1	2	-1	-1	-1	4	2	1
L24E 250N	-1	5	5	5	5	-1	-1	2	-1	-1	-1	4	-1	1
L24E 200N	-1	5	5	6	5	-1	-1	2	-1	-1	-1	3	2	1
L24E 150N	-1	11	19	20	11	-1	-1	2	-1	-1	-1	5	2	2
L24E 100N	-1	31	47	49	29	-1	-1	5	-1	-1	-1	10	1	5
L24E 50N	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	1	-1	-1
L24E 0N	-1	13	21	21	12	-1	-1	4	-1	-1	-1	8	1	3
L24E 50S	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1
L24E 50S-R	-1	1	2	2	1	-1	-1	-1	-1	-1	-1	1	-1	-1
L24E 100S	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
L24E 150S	-1	12	18	19	11	-1	-1	4	-1	-1	-1	9	5	3
L24E 200S	-1	3	4	4	2	-1	-1	1	-1	-1	-1	2	-1	1
L24E 250S	-1	8	7	8	6	3	-1	4	-1	-1	-1	2	2	1
L26E 500N	-1	6	9	10	6	2	-1	3	-1	-1	-1	2	1	-1
L26E 450N	-1	16	24	24	13	4	-1	2	-1	-1	-1	3	2	1
L26E 400N	-1	9	14	14	7	5	-1	2	-1	-1	-1	2	2	1
L26E 350N	-1	5	7	8	4	3	-1	3	-1	-1	-1	2	1	-1
L26E 300N	-1	10	15	15	8	-1	-1	2	-1	-1	-1	5	1	2
L26E 250N	-1	16	23	24	12	-1	-1	2	-1	-1	-1	5	2	2

	015 - LAR	016 - LB	017 - LB	018 - LB	019 - LB	020 - LA	021 - LPH	022 - LBA	023 - LAR	024 - LB	025 - LAR	026 - LBA	027 - LB	028 - ALK
L26E 200N	-1	17	24	25	13	-1	-1	2	-1	-1	-1	4	2	1
L26E 150N	-1	23	33	33	17	-1	-1	4	-1	-1	-1	9	2	3
L26E 100N	-1	4	10	10	5	-1	-1	2	-1	-1	-1	4	1	1
L26E 100N-R	-1	5	9	9	5	-1	-1	2	-1	-1	-1	4	1	1
L26E 50N	-1	13	18	18	8	-1	-1	3	-1	-1	-1	6	1	2
L26E 0N	-1	8	11	11	6	-1	-1	2	-1	-1	-1	3	-1	-1
L26E 50S	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
L26E 100S	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
L26E 150S	1	12	20	21	15	6	-1	3	1	-1	-1	5	4	2
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

	029 - HB	030 - HB	031 - HB	032 - HB	033 - HB	034 - HB	035 - LAR	036 - LBA	037 - HB	038 - LBA	039 - LAR	040 - LPB	041 - LBA	042 - LPB
L0E 50N	9	1	-1	-1	-1	-1	-1	6	1	9	1	-1	9	-1
L0E 0N	14	2	-1	-1	-1	-1	-1	7	-1	10	1	-1	11	-1
L0E 50S	7	-1	-1	-1	-1	-1	-1	4	-1	6	1	-1	7	-1
L0E 100S	7	-1	-1	-1	-1	-1	-1	6	-1	8	1	-1	9	-1
L0E 150S	15	1	-1	-1	-1	-1	-1	2	1	11	1	-1	12	-1
L0E 150S-R	16	2	-1	-1	-1	-1	-1	7	1	11	1	-1	12	-1
L0E 200S	15	-1	-1	-1	-1	-1	-1	8	1	14	2	-1	14	-1
L0E 250S	31	3	-1	-1	-1	-1	-1	12	-1	17	3	-1	20	-1
L0E 300S	5	-1	-1	-1	-1	-1	-1	4	-1	5	-1	-1	6	-1
L0E 350S	3	-1	-1	-1	-1	-1	-1	3	-1	4	-1	-1	5	-1
L0E 400S	7	-1	-1	-1	-1	-1	-1	5	-1	7	-1	-1	8	-1
L0E 450S	6	-1	1	-1	-1	-1	-1	21	-1	28	-1	-1	32	-1
L0E 500S	49	4	2	1	-1	-1	-1	30	-1	42	5	-1	50	1
L2E 150N	4	-1	-1	-1	-1	-1	-1	1	-1	2	-1	-1	3	-1
L2E 100N	10	-1	-1	-1	-1	-1	-1	2	-1	4	-1	-1	4	-1
L2E 50N	4	-1	-1	-1	-1	-1	-1	2	-1	2	-1	-1	1	-1
L2E 0N	11	1	-1	-1	-1	-1	-1	3	-1	4	1	-1	4	-1
L2E 50S	11	1	-1	-1	-1	-1	-1	3	-1	3	-1	-1	5	-1
L2E 100S	14	1	-1	-1	-1	-1	-1	5	-1	8	-1	-1	8	-1
L2E 150S	8	1	-1	-1	-1	-1	-1	2	-1	4	-1	-1	5	-1
L2E 200S	11	-1	2	-1	-1	-1	-1	1	-1	2	-1	-1	1	-1
L2E 200S-R	10	-1	-1	-1	-1	-1	-1	2	-1	3	-1	-1	3	-1
L2E 250S	9	-1	-1	-1	-1	-1	-1	3	-1	4	-1	-1	4	-1
L2E 300S	7	1	-1	-1	-1	-1	-1	3	-1	3	-1	-1	3	-1
L2E 350S	7	-1	2	-1	-1	-1	-1	1	-1	2	-1	-1	2	-1
L2E 400S	3	-1	-1	-1	-1	-1	-1	2	-1	2	-1	-1	2	-1
L4E 200N	6	-1	-1	-1	-1	-1	-1	1	-1	3	-1	-1	2	-1
L4E 150N	6	-1	-1	-1	-1	-1	-1	2	-1	2	-1	-1	2	-1
L4E 100N	11	-1	2	-1	-1	-1	-1	1	-1	2	1	-1	2	-1
L4E 50N	8	-1	-1	-1	-1	-1	-1	6	-1	5	-1	-1	4	-1
L4E 0N	11	2	-1	-1	-1	-1	-1	8	-1	13	1	-1	14	-1
L4E 50S	5	-1	-1	-1	-1	-1	-1	11	-1	18	1	-1	19	-1
L4E 100S	12	2	-1	-1	-1	-1	-1	10	1	14	2	-1	16	-1
L4E 150S	3	-1	-1	-1	-1	-1	-1	16	-1	23	-1	-1	28	-1
L4E 200S	5	-1	-1	-1	-1	-1	-1	14	-1	22	-1	-1	27	-1
L4E 250S	5	-1	-1	-1	-1	-1	-1	9	-1	14	-1	-1	16	-1
L4E 300S	6	1	-1	-1	-1	-1	-1	5	1	10	1	-1	11	-1
L4E 300S-R	8	1	-1	-1	-1	-1	-1	3	-1	8	1	-1	8	-1
L6E 200N	8	1	-1	-1	-1	-1	-1	5	-1	7	-1	-1	8	-1
L6E 150N	6	-1	-1	-1	-1	-1	-1	3	-1	4	-1	-1	5	-1
L6E 100N	-1	-1	-1	-1	-1	-1	-1	6	-1	8	-1	-1	9	-1
L6E 50N	9	1	-1	-1	-1	-1	-1	7	-1	10	1	-1	11	-1
L6E 0N	10	1	-1	-1	-1	-1	-1	14	-1	20	1	-1	24	-1
L6E 50S	11	1	-1	-1	-1	-1	-1	8	-1	10	1	-1	12	-1
L8E 300N	4	-1	-1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	-1
L8E 250N	5	-1	-1	-1	-1	-1	-1	2	-1	1	1	-1	1	-1
L8E 200N	7	-1	1	-1	-1	-1	-1	2	-1	2	1	-1	1	-1
L8E 150N	4	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1
L8E 100N	10	2	-1	-1	-1	-1	-1	2	-1	3	2	-1	4	-1
L8E 50N	13	2	1	-1	-1	-1	-1	-1	-1	3	2	-1	3	1
L8E 0N	5	1	-1	-1	-1	-1	-1	3	-1	-1	1	-1	2	-1
L8E 50S	9	2	1	-1	-1	-1	-1	2	-1	3	2	-1	2	-1
L8E 100S	22	5	2	2	-1	-1	-1	-1	1	5	4	-1	3	2
L8E 100S-R	23	4	3	2	-1	-1	-1	3	-1	3	4	-1	3	2

	029 - HB	030 - HB	031 - HB	032 - HB	033 - HB	034 - HB	035 - LAR	036 - LBA	037 - HB	038 - LBA	039 - LAR	040 - LPB	041 - LBA	042 - LPB
L10E 350N	8	-1	2	-1	-1	-1	-1	5	-1	4	-1	-1	3	-1
L10E 300N	14	2	-1	-1	-1	-1	-1	3	-1	5	2	-1	6	-1
L10E 250N	16	1	3	-1	-1	-1	-1	2	-1	3	1	-1	2	-1
L10E 200N	7	-1	-1	-1	-1	-1	-1	3	-1	3	-1	-1	2	-1
L10E 150N	14	2	-1	-1	-1	-1	-1	4	1	4	1	-1	7	-1
L10E 100N	9	1	-1	-1	-1	-1	-1	8	-1	6	-1	-1	5	-1
L10E 50N	6	1	-1	-1	-1	-1	-1	2	-1	6	1	-1	7	-1
L10E 0N	3	-1	-1	-1	-1	-1	-1	1	-1	2	-1	-1	1	-1
L10E 50S	-1	-1	-1	-1	-1	-1	-1	1	-1	3	-1	-1	3	-1
L12E 350N	10	1	-1	-1	-1	-1	-1	3	-1	6	-1	-1	6	-1
L12E 300N	2	-1	-1	-1	-1	-1	-1	2	-1	2	-1	-1	3	-1
L12E 250N	9	1	-1	-1	-1	-1	-1	2	-1	2	-1	-1	2	-1
L12E 200N	6	-1	-1	-1	-1	-1	-1	2	-1	2	-1	-1	2	-1
L12E 150N	14	1	-1	-1	-1	-1	-1	3	-1	3	1	-1	5	-1
L12E 100N	3	-1	1	-1	-1	-1	-1	1	-1	2	-1	-1	2	-1
L12E 100N-R	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1
L12E 50N	4	-1	-1	-1	-1	-1	-1	1	-1	2	-1	-1	2	-1
L12E 0N	-1	-1	-1	-1	-1	-1	-1	2	-1	2	-1	-1	3	-1
L12E 50S	8	1	-1	-1	-1	-1	-1	2	-1	2	1	-1	2	-1
L14E 350N	18	4	4	2	-1	-1	-1	-1	-1	4	3	-1	3	2
L14E 300N	15	3	3	2	-1	-1	-1	-1	-1	4	3	-1	3	2
L14E 250N	18	3	2	1	-1	-1	-1	-1	-1	4	3	-1	3	1
L14E 200N	17	3	3	2	-1	-1	-1	4	-1	5	2	-1	3	1
L14E 150N	13	3	2	1	-1	-1	-1	3	-1	4	2	-1	3	1
L14E 100N	19	3	2	2	-1	-1	-1	3	-1	4	3	-1	3	2
L14E 50N	13	2	2	1	-1	-1	-1	3	-1	4	2	-1	2	1
L14E 0N	14	3	2	1	-1	-1	-1	-1	-1	4	3	-1	3	2
L14E 50S	2	-1	-1	-1	-1	-1	-1	-1	-1	2	-1	-1	2	-1
L16E 400N	40	8	6	4	-1	-1	-1	1	1	7	7	1	7	5
L16E 350N	22	8	4	4	-1	-1	-1	5	-1	8	5	1	8	4
L16E 300N	18	4	3	2	-1	-1	-1	1	-1	5	3	-1	4	2
L16E 300N-R	20	4	3	2	-1	-1	-1	3	-1	5	3	-1	3	2
L16E 250N	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	-1
L16E 200N	7	1	-1	-1	-1	-1	-1	2	-1	3	1	-1	2	-1
L16E 150N	13	3	2	1	-1	-1	-1	2	-1	5	3	-1	3	1
L16E 100N	6	-1	-1	-1	-1	-1	-1	-1	-1	2	-1	-1	2	-1
L16E 50N	13	3	2	-1	-1	-1	-1	3	-1	4	2	-1	3	1
L16E 0N	16	5	2	2	-1	-1	-1	-1	-1	5	4	-1	4	2
L16E 50S	29	11	4	5	-1	2	-1	8	2	15	6	2	9	5
L18E 450N	7	1	-1	-1	-1	-1	-1	4	-1	6	2	-1	8	-1
L18E 400N	7	1	-1	-1	-1	-1	-1	2	-1	8	2	-1	9	-1
L18E 350N	5	1	-1	-1	-1	-1	-1	5	-1	8	2	-1	9	-1
L18E 300N	5	-1	2	-1	-1	-1	-1	2	-1	11	1	-1	12	-1
L18E 250N	6	-1	-1	-1	-1	-1	-1	4	-1	7	1	-1	8	-1
L18E 200N	4	-1	-1	-1	-1	-1	-1	1	-1	6	-1	-1	7	-1
L18E 150N	6	1	-1	-1	-1	-1	-1	2	-1	5	-1	-1	4	-1
L18E 100N	-1	-1	-1	-1	-1	-1	-1	-1	-1	5	-1	-1	6	-1
L18E 100N-R	2	-1	-1	-1	-1	-1	-1	2	-1	4	-1	-1	5	-1
L18E 50N	6	-1	1	-1	-1	-1	-1	4	-1	7	-1	-1	7	-1
L18E 0N	-1	-1	-1	-1	-1	-1	-1	4	-1	7	-1	-1	7	-1
L18E 50S	4	-1	-1	-1	-1	-1	-1	2	-1	9	-1	-1	11	-1
L18E 100S	-1	-1	-1	-1	-1	-1	-1	3	-1	5	-1	-1	6	-1
L20E 450N	7	1	-1	-1	-1	-1	-1	2	1	4	2	-1	8	-1
L20E 400N	6	1	-1	-1	-1	-1	-1	2	1	9	1	-1	10	-1

	029 - HB	030 - HB	031 - HB	032 - HB	033 - HB	034 - HB	035 - LAR	036 - LBA	037 - HB	038 - LBA	039 - LAR	040 - LPB	041 - LBA	042 - LPB
L20E 350N	5	-1	-1	-1	-1	-1	-1	13	1	19	1	-1	22	-1
L20E 300N	6	1	-1	-1	-1	-1	-1	6	1	11	1	-1	12	-1
L20E 250N	4	-1	-1	-1	-1	-1	-1	3	-1	12	-1	-1	14	-1
L20E 200N	9	1	-1	-1	-1	-1	-1	6	1	10	2	-1	11	-1
L20E 150N	12	2	-1	-1	-1	-1	-1	11	1	17	2	-1	19	-1
L20E 100N	2	-1	-1	-1	-1	-1	-1	7	-1	9	-1	-1	11	-1
L20E 50N	4	1	-1	-1	-1	-1	-1	3	-1	4	1	-1	3	-1
L20E 0N	-1	-1	2	-1	-1	-1	-1	1	-1	4	1	-1	4	-1
L20E 50S	18	2	-1	1	-1	-1	-1	18	2	28	3	-1	32	1
L20E 50S-R	24	2	-1	1	-1	-1	-1	17	2	25	3	-1	27	-1
L20E 100S	2	-1	-1	-1	-1	-1	-1	4	-1	5	-1	-1	5	-1
L20E 150S	5	-1	-1	-1	-1	-1	-1	8	-1	11	-1	-1	12	-1
L22E 550N	7	-1	-1	-1	-1	-1	-1	2	-1	6	1	-1	6	-1
L22E 500N	4	-1	-1	-1	-1	-1	-1	6	-1	11	1	-1	12	-1
L22E 450N	-1	-1	-1	-1	-1	-1	-1	2	-1	8	-1	-1	10	-1
L22E 400N	5	-1	-1	-1	-1	-1	-1	6	-1	10	-1	-1	13	-1
L22E 350N	-1	-1	-1	-1	-1	-1	-1	1	-1	7	-1	-1	7	-1
L22E 300N	7	1	2	-1	-1	-1	-1	2	-1	7	1	-1	7	-1
L22E 250N	-1	-1	-1	-1	-1	-1	-1	5	1	7	1	-1	8	-1
L22E 200N	3	-1	-1	-1	-1	-1	-1	5	-1	6	1	-1	8	-1
L22E 150N	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1	-1	3	-1
L22E 100N	-1	-1	-1	-1	-1	-1	-1	6	-1	9	-1	-1	10	-1
L22E 50N	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1	-1	4	-1
L22E 0N	2	-1	-1	-1	-1	-1	-1	2	-1	8	-1	-1	10	-1
L22E 50S	-1	-1	-1	-1	-1	-1	-1	6	-1	7	-1	-1	9	-1
L22E 50S-R	-1	-1	-1	-1	-1	-1	-1	6	-1	10	-1	-1	11	-1
L22E 100S	-1	-1	-1	-1	-1	-1	-1	1	-1	3	-1	-1	6	-1
L22E 150S	1	-1	-1	-1	-1	-1	-1	1	-1	2	-1	-1	2	-1
L22E 200S	-1	-1	-1	-1	-1	-1	-1	1	-1	2	-1	-1	2	-1
L22E 250S	-1	-1	-1	-1	-1	-1	-1	1	-1	2	-1	-1	2	-1
L24E 550N	7	1	-1	-1	-1	-1	-1	3	-1	3	1	-1	2	-1
L24E 500N	-1	-1	-1	-1	-1	-1	-1	1	-1	6	-1	-1	7	-1
L24E 450N	4	1	-1	-1	-1	-1	-1	2	-1	8	1	-1	10	-1
L24E 400N	-1	-1	-1	-1	-1	-1	-1	1	-1	7	-1	-1	8	-1
L24E 350N	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1	-1	2	-1
L24E 300N	-1	-1	-1	-1	-1	-1	-1	5	-1	7	-1	-1	8	-1
L24E 250N	-1	-1	-1	-1	-1	-1	-1	2	-1	8	-1	-1	9	-1
L24E 200N	3	-1	-1	-1	-1	-1	-1	2	-1	7	-1	-1	8	-1
L24E 150N	6	1	-1	-1	-1	-1	-1	5	-1	9	2	-1	11	-1
L24E 100N	7	4	3	2	-1	2	-1	5	3	5	5	-1	3	1
L24E 50N	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1	-1	3	-1
L24E 0N	5	2	-1	-1	-1	-1	-1	4	1	7	2	-1	6	-1
L24E 50S	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1	-1	3	-1
L24E 50S-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1	-1	2	-1
L24E 100S	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
L24E 150S	5	-1	-1	-1	-1	-1	-1	4	1	22	1	-1	26	-1
L24E 200S	-1	-1	-1	-1	-1	-1	-1	1	-1	2	1	-1	1	-1
L24E 250S	2	1	-1	-1	-1	-1	-1	3	-1	2	-1	-1	2	-1
L26E 500N	3	-1	-1	-1	-1	-1	-1	3	-1	2	-1	-1	3	-1
L26E 450N	6	1	-1	-1	-1	-1	-1	5	-1	3	-1	-1	6	-1
L26E 400N	3	1	-1	-1	-1	-1	-1	2	-1	4	-1	-1	5	-1
L26E 350N	-1	-1	-1	-1	-1	-1	-1	2	-1	2	-1	-1	1	-1
L26E 300N	4	-1	-1	-1	-1	-1	-1	2	1	11	1	-1	12	-1
L26E 250N	3	1	-1	-1	-1	-1	-1	3	1	10	-1	-1	10	-1

	029 - HB	030 - HB	031 - HB	032 - HB	033 - HB	034 - HB	035 - LAR	036 - LBA	037 - HB	038 - LBA	039 - LAR	040 - LPB	041 - LBA	042 - LPB
L26E 200N	4	1	-1	-1	-1	-1	-1	5	-1	7	1	-1	8	-1
L26E 150N	5	2	-1	-1	-1	-1	-1	5	2	9	2	-1	15	-1
L26E 100N	-1	-1	-1	-1	-1	-1	-1	2	-1	4	-1	-1	6	-1
L26E 100N-R	2	-1	-1	-1	-1	-1	-1	4	-1	4	1	-1	4	-1
L26E 50N	3	1	-1	-1	-1	-1	-1	3	-1	6	1	-1	9	-1
L26E 0N	2	-1	-1	-1	-1	-1	-1	2	-1	6	-1	-1	6	-1
L26E 50S	1	-1	2	-1	-1	-1	-1	-1	-1	1	-1	-1	1	-1
L26E 100S	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
L26E 150S	4	1	-1	-1	-1	-1	-1	3	1	5	1	-1	11	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	2	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

	043 - HB	044 - HB	045 - LA	046 - LPH	047 - LBA	048 - HB	049 -HB	050 - LBA	051 - LBI	052 - LPB	053 - LPB	054 - HB	055 - LPB	056 - LBI
L0E 50N	-1	-1	7	-1	3	-1	-1	150	-1	-1	-1	-1	-1	-1
L0E 0N	-1	-1	7	-1	4	-1	-1	181	-1	-1	-1	-1	-1	-1
L0E 50S	-1	-1	4	-1	2	-1	-1	112	-1	-1	-1	-1	-1	-1
L0E 100S	-1	-1	6	-1	3	-1	-1	146	-1	-1	-1	-1	-1	-1
L0E 150S	-1	-1	8	-1	4	-1	-1	187	-1	-1	-1	-1	-1	-1
L0E 150S-R	-1	-1	9	-1	4	-1	-1	195	-1	-1	-1	-1	-1	-1
L0E 200S	-1	-1	9	-1	6	-1	-1	227	-1	-1	-1	-1	-1	-1
L0E 250S	-1	-1	13	-1	7	-1	-1	307	-1	-1	-1	-1	-1	-1
L0E 300S	-1	-1	5	-1	3	-1	-1	109	-1	-1	-1	-1	-1	-1
L0E 350S	-1	-1	3	-1	2	-1	-1	83	-1	-1	-1	-1	-1	-1
L0E 400S	-1	-1	6	-1	3	-1	-1	117	-1	-1	-1	-1	-1	-1
L0E 450S	-1	-1	26	-1	12	-1	-1	460	-1	-1	-1	-1	-1	-1
L0E 500S	-1	-1	34	-1	16	-1	-1	678	-1	-1	-1	-1	-1	-1
L2E 150N	-1	-1	2	-1	1	-1	-1	65	-1	-1	-1	-1	-1	-1
L2E 100N	-1	-1	4	-1	2	-1	-1	88	-1	-1	-1	-1	-1	-1
L2E 50N	-1	-1	3	-1	1	-1	-1	51	-1	-1	-1	-1	-1	-1
L2E 0N	-1	-1	3	-1	2	-1	-1	79	-1	-1	-1	-1	-1	-1
L2E 50S	-1	-1	4	-1	2	-1	-1	102	-1	-1	-1	-1	-1	-1
L2E 100S	-1	-1	7	-1	4	-1	-1	159	-1	-1	-1	-1	-1	-1
L2E 150S	-1	-1	4	-1	2	-1	-1	90	-1	-1	-1	-1	-1	-1
L2E 200S	-1	-1	2	-1	1	-1	-1	62	-1	-1	-1	-1	-1	-1
L2E 200S-R	-1	-1	2	-1	1	-1	-1	63	-1	-1	-1	-1	-1	-1
L2E 250S	-1	-1	4	-1	2	-1	-1	84	-1	-1	-1	-1	-1	-1
L2E 300S	-1	-1	5	-1	3	-1	-1	117	-1	-1	-1	-1	-1	-1
L2E 350S	-1	-1	4	-1	2	-1	-1	97	-1	-1	-1	-1	-1	-1
L2E 400S	-1	-1	2	-1	1	-1	-1	60	-1	-1	-1	-1	-1	-1
L4E 200N	-1	-1	5	-1	2	-1	-1	103	-1	-1	-1	-1	-1	-1
L4E 150N	-1	-1	2	-1	2	-1	-1	77	-1	-1	-1	-1	-1	-1
L4E 100N	-1	-1	3	-1	2	-1	-1	72	-1	-1	-1	-1	-1	-1
L4E 50N	-1	-1	5	-1	2	-1	-1	119	-1	-1	-1	-1	-1	-1
L4E 0N	-1	-1	10	-1	5	-1	-1	209	-1	-1	-1	-1	-1	-1
L4E 50S	-1	-1	10	-1	6	-1	-1	262	-1	-1	-1	-1	-1	-1
L4E 100S	-1	-1	10	-1	11	-1	-1	397	-1	-1	-1	-1	-1	-1
L4E 150S	-1	-1	14	-1	8	-1	-1	330	-1	-1	-1	-1	-1	-1
L4E 200S	-1	-1	15	-1	9	-1	-1	367	-1	-1	-1	-1	-1	-1
L4E 250S	-1	-1	10	-1	6	-1	-1	236	-1	-1	-1	-1	-1	-1
L4E 300S	-1	-1	8	-1	5	-1	-1	189	-1	-1	-1	-1	-1	-1
L4E 300S-R	-1	-1	7	-1	4	-1	-1	156	-1	-1	-1	-1	-1	-1
L6E 200N	-1	-1	7	-1	3	-1	-1	133	-1	-1	-1	-1	-1	-1
L6E 150N	-1	-1	3	-1	2	-1	-1	79	-1	-1	-1	-1	-1	-1
L6E 100N	-1	-1	6	-1	3	-1	-1	140	-1	-1	-1	-1	-1	-1
L6E 50N	-1	-1	8	-1	4	-1	-1	175	-1	-1	-1	-1	-1	-1
L6E 0N	-1	-1	14	-1	7	-1	-1	314	-1	-1	-1	-1	-1	-1
L6E 50S	-1	-1	8	-1	5	-1	-1	189	-1	-1	-1	-1	-1	-1
L8E 300N	-1	-1	2	-1	-1	-1	-1	51	-1	-1	-1	-1	-1	-1
L8E 250N	-1	-1	1	-1	-1	-1	-1	46	-1	-1	-1	-1	-1	-1
L8E 200N	-1	-1	1	-1	-1	-1	-1	47	-1	-1	-1	-1	-1	-1
L8E 150N	-1	-1	2	-1	1	-1	-1	60	-1	-1	-1	-1	-1	-1
L8E 100N	-1	-1	3	-1	2	-1	-1	81	-1	-1	-1	-1	-1	-1
L8E 50N	-1	-1	3	-1	2	-1	-1	74	-1	-1	-1	-1	-1	-1
L8E 0N	-1	-1	2	-1	1	-1	-1	65	-1	-1	-1	-1	-1	-1
L8E 50S	-1	-1	2	-1	1	-1	-1	72	-1	-1	-1	-1	-1	-1
L8E 100S	-1	-1	5	-1	2	-1	-1	120	-1	-1	1	-1	-1	-1
L8E 100S-R	-1	-1	4	-1	2	-1	-1	112	-1	-1	1	-1	-1	-1

	043 - HB	044 - HB	045 - LA	046 - LPH	047 - LBA	048 - HB	049 -HB	050 - LBA	051 - LBI	052 - LPB	053 - LPB	054 - HB	055 - LPB	056 - LBI
L10E 350N	-1	-1	6	-1	3	-1	-1	139	-1	-1	-1	-1	-1	-1
L10E 300N	-1	-1	5	-1	3	-1	-1	119	-1	-1	-1	-1	-1	-1
L10E 250N	-1	-1	4	-1	2	-1	-1	92	-1	-1	-1	-1	-1	-1
L10E 200N	-1	-1	3	-1	2	-1	-1	90	-1	-1	-1	-1	-1	-1
L10E 150N	-1	-1	5	-1	3	-1	-1	116	-1	-1	-1	-1	-1	-1
L10E 100N	-1	-1	8	-1	4	-1	-1	186	-1	-1	-1	-1	-1	-1
L10E 50N	-1	-1	4	-1	3	-1	-1	118	-1	-1	-1	-1	-1	-1
L10E 0N	-1	-1	2	-1	1	-1	-1	64	-1	-1	-1	-1	-1	-1
L10E 50S	-1	-1	2	-1	1	-1	-1	62	-1	-1	-1	-1	-1	-1
L12E 350N	-1	-1	4	-1	2	-1	-1	113	-1	-1	-1	-1	-1	-1
L12E 300N	-1	-1	2	-1	1	-1	-1	61	-1	-1	-1	-1	-1	-1
L12E 250N	-1	-1	2	-1	1	-1	-1	63	-1	-1	-1	-1	-1	-1
L12E 200N	-1	-1	4	-1	2	-1	-1	86	-1	-1	-1	-1	-1	-1
L12E 150N	-1	-1	4	-1	2	-1	-1	109	-1	-1	-1	-1	-1	-1
L12E 100N	-1	-1	2	-1	1	-1	-1	59	-1	-1	-1	-1	-1	-1
L12E 100N-R	-1	-1	1	-1	-1	-1	-1	48	-1	-1	-1	-1	-1	-1
L12E 50N	-1	-1	2	-1	1	-1	-1	62	-1	-1	-1	-1	-1	-1
L12E 0N	-1	-1	2	-1	1	-1	-1	56	-1	-1	-1	-1	-1	-1
L12E 50S	-1	-1	3	-1	1	-1	-1	75	-1	-1	-1	-1	-1	-1
L14E 350N	-1	-1	3	-1	2	-1	-1	86	-1	-1	1	-1	-1	-1
L14E 300N	-1	-1	3	-1	2	-1	-1	82	-1	-1	-1	-1	-1	-1
L14E 250N	-1	-1	2	-1	1	-1	-1	76	-1	-1	-1	-1	-1	-1
L14E 200N	-1	-1	3	-1	2	-1	-1	87	-1	-1	-1	-1	-1	-1
L14E 150N	-1	-1	3	-1	2	-1	-1	85	-1	-1	-1	-1	-1	-1
L14E 100N	-1	-1	3	-1	2	-1	-1	93	-1	-1	-1	-1	-1	-1
L14E 50N	-1	-1	2	-1	2	-1	-1	76	-1	-1	-1	-1	-1	-1
L14E 0N	-1	-1	3	-1	2	-1	-1	91	-1	-1	-1	-1	-1	-1
L14E 50S	-1	-1	1	-1	-1	-1	-1	52	-1	-1	-1	-1	-1	-1
L16E 400N	-1	-1	5	-1	3	-1	-1	134	-1	-1	2	-1	-1	-1
L16E 350N	-1	-1	6	-1	3	-1	-1	144	-1	-1	2	-1	-1	-1
L16E 300N	-1	-1	4	-1	2	-1	-1	111	-1	-1	1	-1	-1	-1
L16E 300N-R	-1	-1	4	-1	2	-1	-1	101	-1	-1	1	-1	-1	-1
L16E 250N	-1	-1	1	-1	-1	-1	-1	49	-1	-1	-1	-1	-1	-1
L16E 200N	-1	-1	2	-1	1	-1	-1	58	-1	-1	-1	-1	-1	-1
L16E 150N	-1	-1	4	-1	2	-1	-1	107	-1	-1	-1	-1	-1	-1
L16E 100N	-1	-1	1	-1	1	-1	-1	55	-1	-1	-1	-1	-1	-1
L16E 50N	-1	-1	3	-1	2	-1	-1	81	-1	-1	-1	-1	-1	-1
L16E 0N	-1	-1	3	-1	2	-1	-1	93	-1	-1	1	-1	-1	-1
L16E 50S	1	-1	17	-1	9	-1	-1	340	-1	-1	3	-1	-1	-1
L18E 450N	-1	-1	5	-1	3	-1	-1	137	-1	-1	-1	-1	-1	-1
L18E 400N	-1	-1	6	-1	5	-1	-1	184	-1	-1	-1	-1	-1	-1
L18E 350N	-1	-1	5	-1	4	-1	-1	174	-1	-1	-1	-1	-1	-1
L18E 300N	-1	-1	7	-1	4	-1	-1	168	-1	-1	-1	-1	-1	-1
L18E 250N	-1	-1	4	-1	4	-1	-1	153	-1	-1	-1	-1	-1	-1
L18E 200N	-1	-1	4	-1	3	-1	-1	113	-1	-1	-1	-1	-1	-1
L18E 150N	-1	-1	5	-1	4	-1	-1	163	-1	-1	-1	-1	-1	-1
L18E 100N	-1	-1	3	-1	2	-1	-1	79	-1	-1	-1	-1	-1	-1
L18E 100N-R	-1	-1	3	-1	1	-1	-1	65	-1	-1	-1	-1	-1	-1
L18E 50N	-1	-1	4	-1	2	-1	-1	100	-1	-1	-1	-1	-1	-1
L18E 0N	-1	-1	4	-1	2	-1	-1	95	-1	-1	-1	-1	-1	-1
L18E 50S	-1	-1	3	-1	2	-1	-1	116	-1	-1	-1	-1	-1	-1
L18E 100S	-1	-1	4	-1	2	-1	-1	86	-1	-1	-1	-1	-1	-1
L20E 450N	-1	-1	5	-1	3	-1	-1	141	-1	-1	-1	-1	-1	-1
L20E 400N	-1	-1	6	-1	4	-1	-1	166	-1	-1	-1	-1	-1	-1

	043 - HB	044 - HB	045 - LA	046 - LPH	047 - LBA	048 - HB	049 -HB	050 - LBA	051 - LBI	052 - LPB	053 - LPB	054 - HB	055 - LPB	056 - LBI
L20E 350N	-1	-1	12	-1	7	-1	-1	296	-1	-1	-1	-1	-1	-1
L20E 300N	-1	-1	6	-1	4	-1	-1	181	-1	-1	-1	-1	-1	-1
L20E 250N	-1	-1	9	-1	5	-1	-1	209	-1	-1	-1	-1	-1	-1
L20E 200N	-1	-1	6	-1	4	-1	-1	187	-1	-1	-1	-1	-1	-1
L20E 150N	-1	-1	9	-1	5	-1	-1	236	-1	-1	-1	-1	-1	-1
L20E 100N	-1	-1	7	-1	3	-1	-1	136	-1	-1	-1	-1	-1	-1
L20E 50N	-1	-1	4	-1	3	-1	-1	137	-1	-1	-1	-1	-1	-1
L20E 0N	-1	-1	2	-1	2	-1	-1	70	-1	-1	-1	-1	-1	-1
L20E 50S	-1	-1	18	-1	11	-1	-1	419	-1	-1	-1	-1	-1	-1
L20E 50S-R	-1	-1	16	-1	9	-1	-1	411	-1	-1	-1	-1	-1	-1
L20E 100S	-1	-1	4	-1	2	-1	-1	67	-1	-1	-1	-1	-1	-1
L20E 150S	-1	-1	10	-1	5	-1	-1	194	-1	-1	-1	-1	-1	-1
L22E 550N	-1	-1	5	-1	2	-1	-1	90	-1	-1	-1	-1	-1	-1
L22E 500N	-1	-1	7	-1	4	-1	-1	178	-1	-1	-1	-1	-1	-1
L22E 450N	-1	-1	3	-1	2	-1	-1	117	-1	-1	-1	-1	-1	-1
L22E 400N	-1	-1	6	-1	4	-1	-1	162	-1	-1	-1	-1	-1	-1
L22E 350N	-1	-1	3	-1	2	-1	-1	112	-1	-1	-1	-1	-1	-1
L22E 300N	-1	-1	4	-1	2	-1	-1	108	-1	-1	-1	-1	-1	-1
L22E 250N	-1	-1	4	-1	2	-1	-1	114	-1	-1	-1	-1	-1	-1
L22E 200N	-1	-1	3	-1	2	-1	-1	95	-1	-1	-1	-1	-1	-1
L22E 150N	-1	-1	2	-1	1	-1	-1	54	-1	-1	-1	-1	-1	-1
L22E 100N	-1	-1	4	-1	2	-1	-1	120	-1	-1	-1	-1	-1	-1
L22E 50N	-1	-1	2	-1	1	-1	-1	58	-1	-1	-1	-1	-1	-1
L22E 0N	-1	-1	4	-1	2	-1	-1	122	-1	-1	-1	-1	-1	-1
L22E 50S	-1	-1	3	-1	2	-1	-1	106	-1	-1	-1	-1	-1	-1
L22E 50S-R	-1	-1	4	-1	2	-1	-1	129	-1	-1	-1	-1	-1	-1
L22E 100S	-1	-1	2	-1	1	-1	-1	79	-1	-1	-1	-1	-1	-1
L22E 150S	-1	-1	-1	-1	-1	-1	-1	37	-1	-1	-1	-1	-1	-1
L22E 200S	-1	-1	1	-1	-1	-1	-1	37	-1	-1	-1	-1	-1	-1
L22E 250S	-1	-1	2	-1	1	-1	-1	61	-1	-1	-1	-1	-1	-1
L24E 550N	-1	-1	4	-1	2	-1	-1	99	-1	-1	-1	-1	-1	-1
L24E 500N	-1	-1	2	-1	2	-1	-1	91	-1	-1	-1	-1	-1	-1
L24E 450N	-1	-1	4	-1	3	-1	-1	138	-1	-1	-1	-1	-1	-1
L24E 400N	-1	-1	4	-1	2	-1	-1	106	-1	-1	-1	-1	-1	-1
L24E 350N	-1	-1	1	-1	-1	-1	-1	41	-1	-1	-1	-1	-1	-1
L24E 300N	-1	-1	3	-1	2	-1	-1	91	-1	-1	-1	-1	-1	-1
L24E 250N	-1	-1	4	-1	3	-1	-1	121	-1	-1	-1	-1	-1	-1
L24E 200N	-1	-1	4	-1	3	-1	-1	120	-1	-1	-1	-1	-1	-1
L24E 150N	-1	-1	3	-1	3	-1	-1	161	-1	-1	-1	-1	-1	-1
L24E 100N	-1	1	36	-1	15	-1	-1	482	-1	-1	-1	-1	-1	-1
L24E 50N	-1	-1	3	-1	1	-1	-1	67	-1	-1	-1	-1	-1	-1
L24E 0N	-1	-1	15	-1	9	-1	-1	384	-1	-1	-1	-1	-1	-1
L24E 50S	-1	-1	2	-1	-1	-1	-1	53	-1	-1	-1	-1	-1	-1
L24E 50S-R	-1	-1	2	-1	1	-1	-1	61	-1	-1	-1	-1	-1	-1
L24E 100S	-1	-1	3	-1	2	-1	-1	63	-1	-1	-1	-1	-1	-1
L24E 150S	-1	-1	15	-1	7	-1	-1	318	-1	-1	-1	-1	-1	-1
L24E 200S	-1	-1	6	-1	6	-1	-1	156	-1	-1	-1	-1	-1	-1
L24E 250S	-1	-1	4	-1	1	-1	-1	74	-1	-1	-1	-1	-1	-1
L26E 500N	-1	-1	4	-1	2	-1	-1	100	-1	-1	-1	-1	-1	-1
L26E 450N	-1	-1	5	-1	2	-1	-1	99	-1	-1	-1	-1	-1	-1
L26E 400N	-1	-1	7	-1	3	-1	-1	121	-1	-1	-1	-1	-1	-1
L26E 350N	-1	-1	3	-1	1	-1	-1	71	-1	-1	-1	-1	-1	-1
L26E 300N	-1	-1	6	-1	4	-1	-1	180	-1	-1	-1	-1	-1	-1
L26E 250N	-1	-1	6	-1	3	-1	-1	138	-1	-1	-1	-1	-1	-1

	043 - HB	044 - HB	045 - LA	046 - LPH	047 - LBA	048 - HB	049 -HB	050 - LBA	051 - LBI	052 - LPB	053 - LPB	054 - HB	055 - LPB	056 - LBI
L26E 200N	-1	-1	4	-1	2	-1	-1	113	-1	-1	-1	-1	-1	-1
L26E 150N	-1	-1	13	-1	6	-1	-1	276	-1	-1	-1	-1	-1	-1
L26E 100N	-1	-1	6	-1	4	-1	-1	154	-1	-1	-1	-1	-1	-1
L26E 100N-R	-1	-1	5	-1	4	-1	-1	169	-1	-1	-1	-1	-1	-1
L26E 50N	-1	-1	6	-1	4	-1	-1	195	-1	-1	-1	-1	-1	-1
L26E 0N	-1	-1	4	-1	2	-1	-1	102	-1	-1	-1	-1	-1	-1
L26E 50S	-1	-1	2	-1	-1	-1	-1	45	-1	-1	-1	-1	-1	-1
L26E 100S	-1	-1	-1	-1	-1	-1	-1	28	-1	-1	-1	-1	-1	-1
L26E 150S	-1	-1	7	-1	4	-1	-1	173	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	22	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	1	-1	-1	-1	-1	41	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	2	-1	-1	-1	-1	54	-1	-1	-1	-1	-1	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	-1	-1

	057 - ALK	058 - LPB	059 - LPB	060 - LPH	061 - LBI	062 - LBA	063 - LPH	064 - LBA	065 - HPB	066 - LBA	067 - LBI	068 - HPB	069 - LA	070 - HPB
L0E 50N	-1	-1	-1	-1	-1	3	2	3	-1	4	-1	-1	5	-1
L0E 0N	-1	-1	-1	-1	-1	3	2	3	-1	4	-1	-1	6	-1
L0E 50S	-1	-1	-1	-1	-1	2	2	2	-1	4	-1	-1	5	-1
L0E 100S	-1	-1	-1	-1	-1	2	2	3	-1	4	-1	-1	5	-1
L0E 150S	-1	-1	-1	-1	-1	3	2	3	-1	4	-1	-1	7	-1
L0E 150S-R	-1	-1	-1	-1	-1	3	2	3	-1	4	-1	-1	7	-1
L0E 200S	-1	-1	-1	-1	-1	3	2	4	-1	4	-1	-1	8	-1
L0E 250S	-1	-1	-1	-1	-1	3	5	5	-1	9	-1	-1	10	1
L0E 300S	-1	-1	-1	-1	-1	2	-1	2	-1	3	-1	-1	5	-1
L0E 350S	-1	-1	-1	-1	-1	2	-1	2	-1	3	-1	-1	3	-1
L0E 400S	-1	-1	-1	-1	-1	2	-1	2	-1	3	-1	-1	4	-1
L0E 450S	-1	-1	-1	-1	-1	4	1	6	-1	8	-1	-1	16	-1
L0E 500S	1	-1	-1	-1	1	6	6	9	-1	13	-1	-1	19	2
L2E 150N	-1	-1	-1	-1	-1	1	1	2	-1	2	-1	-1	4	-1
L2E 100N	-1	-1	-1	-1	-1	2	1	2	-1	3	-1	-1	4	-1
L2E 50N	-1	-1	-1	-1	-1	1	-1	1	-1	-1	-1	-1	2	-1
L2E 0N	-1	-1	-1	-1	-1	2	2	2	-1	3	-1	-1	4	-1
L2E 50S	-1	-1	-1	-1	-1	2	2	2	-1	3	-1	-1	4	-1
L2E 100S	-1	-1	-1	-1	-1	3	2	3	-1	4	-1	-1	6	-1
L2E 150S	-1	-1	-1	-1	-1	2	1	2	-1	3	-1	-1	3	-1
L2E 200S	-1	-1	-1	-1	-1	2	1	2	-1	2	-1	-1	3	-1
L2E 200S-R	-1	-1	-1	-1	-1	2	1	2	-1	2	-1	-1	3	-1
L2E 250S	-1	-1	-1	-1	-1	2	1	2	-1	2	-1	-1	4	-1
L2E 300S	-1	-1	-1	-1	-1	2	2	3	-1	4	-1	-1	5	-1
L2E 350S	-1	-1	-1	-1	-1	2	1	2	-1	2	-1	-1	5	-1
L2E 400S	-1	-1	-1	-1	-1	1	-1	2	-1	-1	-1	-1	3	-1
L4E 200N	-1	-1	-1	-1	-1	2	2	2	-1	3	-1	-1	4	-1
L4E 150N	-1	-1	-1	-1	-1	2	-1	2	-1	3	-1	-1	4	-1
L4E 100N	-1	-1	-1	-1	-1	1	1	1	-1	2	-1	-1	2	-1
L4E 50N	-1	-1	-1	-1	-1	2	1	2	-1	-1	-1	-1	4	-1
L4E 0N	-1	-1	-1	-1	-1	3	2	3	-1	5	-1	-1	7	-1
L4E 50S	-1	-1	-1	-1	-1	3	2	4	-1	5	-1	-1	7	-1
L4E 100S	1	-1	-1	-1	-1	5	3	5	-1	7	-1	-1	8	-1
L4E 150S	-1	-1	-1	-1	-1	4	-1	4	-1	6	-1	-1	7	-1
L4E 200S	-1	-1	-1	-1	-1	5	-1	5	-1	6	-1	-1	8	-1
L4E 250S	-1	-1	-1	-1	-1	3	-1	4	-1	4	-1	-1	8	-1
L4E 300S	-1	-1	-1	-1	-1	3	2	3	-1	4	-1	-1	7	-1
L4E 300S-R	-1	-1	-1	-1	-1	3	2	3	-1	4	-1	-1	8	-1
L6E 200N	-1	-1	-1	-1	-1	2	1	2	-1	3	-1	-1	4	-1
L6E 150N	-1	-1	-1	-1	-1	-1	1	2	-1	3	-1	-1	3	-1
L6E 100N	-1	-1	-1	-1	-1	1	-1	2	-1	4	-1	-1	6	-1
L6E 50N	-1	-1	-1	-1	-1	3	1	3	-1	4	-1	-1	5	-1
L6E 0N	-1	-1	-1	-1	-1	3	1	4	-1	5	-1	-1	6	-1
L6E 50S	-1	-1	-1	-1	-1	3	2	3	-1	4	-1	-1	5	-1
L8E 300N	-1	-1	-1	-1	-1	1	3	2	-1	3	-1	-1	3	-1
L8E 250N	-1	-1	-1	-1	-1	1	3	1	-1	2	-1	-1	2	-1
L8E 200N	-1	-1	-1	-1	-1	1	3	1	-1	3	-1	-1	3	-1
L8E 150N	-1	-1	-1	-1	-1	1	3	2	-1	3	-1	-1	4	-1
L8E 100N	-1	-1	-1	-1	-1	2	7	2	-1	4	-1	-1	6	-1
L8E 50N	-1	-1	-1	-1	-1	2	9	2	-1	3	-1	-1	5	-1
L8E 0N	-1	-1	-1	-1	-1	2	7	2	-1	3	-1	-1	4	-1
L8E 50S	-1	-1	-1	-1	-1	2	6	2	-1	3	-1	-1	5	-1
L8E 100S	-1	1	-1	-1	-1	3	24	3	-1	2	-1	1	6	2
L8E 100S-R	-1	1	-1	-1	-1	3	23	3	-1	4	-1	1	6	2

	057 - ALK	058 - LPB	059 - LPB	060 - LPH	061 - LBI	062 - LBA	063 - LPH	064 - LBA	065 - HPB	066 - LBA	067 - LBI	068 - HPB	069 - LA	070 - HPB
L10E 350N	-1	-1	-1	-1	-1	3	2	3	-1	4	-1	-1	7	-1
L10E 300N	-1	-1	-1	-1	-1	2	3	3	-1	4	-1	-1	5	-1
L10E 250N	-1	-1	-1	-1	-1	2	1	2	-1	2	-1	-1	5	-1
L10E 200N	-1	-1	-1	-1	-1	2	-1	2	-1	2	-1	-1	4	-1
L10E 150N	-1	-1	-1	-1	-1	2	2	2	-1	4	-1	-1	6	-1
L10E 100N	-1	-1	-1	-1	-1	3	1	3	-1	5	-1	-1	7	-1
L10E 50N	-1	-1	-1	-1	-1	2	1	3	-1	4	-1	-1	5	-1
L10E 0N	-1	-1	-1	-1	-1	1	-1	2	-1	1	-1	-1	3	-1
L10E 50S	-1	-1	-1	-1	-1	1	-1	2	-1	2	-1	-1	3	-1
L12E 350N	-1	-1	-1	-1	-1	2	-1	2	-1	3	-1	-1	4	-1
L12E 300N	-1	-1	-1	-1	-1	1	-1	1	-1	-1	-1	-1	3	-1
L12E 250N	-1	-1	-1	-1	-1	2	-1	2	-1	3	-1	-1	3	-1
L12E 200N	-1	-1	-1	-1	-1	2	1	2	-1	3	-1	-1	4	-1
L12E 150N	-1	-1	-1	-1	-1	2	2	2	-1	4	-1	-1	5	-1
L12E 100N	-1	-1	-1	-1	-1	2	-1	2	-1	2	-1	-1	4	-1
L12E 100N-R	-1	-1	-1	-1	-1	1	-1	1	-1	2	-1	-1	3	-1
L12E 50N	-1	-1	-1	-1	-1	2	-1	2	-1	3	-1	-1	4	-1
L12E 0N	-1	-1	-1	-1	-1	1	-1	1	-1	-1	-1	-1	3	-1
L12E 50S	-1	-1	-1	-1	-1	2	2	2	-1	2	-1	-1	5	-1
L14E 350N	-1	1	-1	-1	-1	1	14	2	-1	4	-1	-1	5	2
L14E 300N	-1	-1	-1	-1	-1	-1	13	2	-1	4	-1	-1	5	1
L14E 250N	-1	-1	-1	-1	-1	2	11	2	-1	4	-1	-1	4	-1
L14E 200N	-1	-1	-1	-1	-1	2	7	2	-1	4	-1	-1	5	1
L14E 150N	-1	-1	-1	-1	-1	2	10	2	-1	3	-1	-1	5	1
L14E 100N	-1	-1	-1	-1	-1	2	10	3	-1	4	-1	-1	8	1
L14E 50N	-1	-1	-1	-1	-1	2	10	2	-1	3	-1	-1	4	-1
L14E 0N	-1	-1	-1	-1	-1	2	12	3	-1	4	-1	-1	6	-1
L14E 50S	-1	-1	-1	-1	-1	2	2	2	-1	3	-1	-1	4	-1
L16E 400N	-1	2	2	-1	-1	3	41	3	-1	4	-1	2	8	3
L16E 350N	-1	2	2	-1	-1	3	39	4	-1	4	-1	2	7	3
L16E 300N	-1	1	1	-1	-1	3	12	3	-1	4	-1	-1	7	2
L16E 300N-R	-1	-1	1	-1	-1	2	11	3	-1	4	-1	-1	6	2
L16E 250N	-1	-1	-1	-1	-1	1	3	2	-1	2	-1	-1	3	-1
L16E 200N	-1	-1	-1	-1	-1	2	3	2	-1	2	-1	-1	3	-1
L16E 150N	-1	-1	-1	-1	-1	2	10	3	-1	4	-1	-1	7	1
L16E 100N	-1	-1	-1	-1	-1	1	2	2	-1	2	-1	-1	3	-1
L16E 50N	-1	-1	-1	-1	-1	2	7	2	-1	3	-1	-1	5	-1
L16E 0N	-1	1	1	-1	-1	2	19	3	-1	4	-1	-1	4	1
L16E 50S	-1	3	3	-1	1	8	42	8	1	11	1	3	24	5
L18E 450N	-1	-1	-1	-1	-1	3	2	3	-1	4	-1	-1	6	1
L18E 400N	1	-1	-1	-1	-1	1	2	3	-1	4	-1	-1	6	-1
L18E 350N	1	-1	-1	-1	-1	-1	2	4	-1	3	-1	-1	6	-1
L18E 300N	-1	-1	-1	-1	-1	1	-1	3	-1	3	-1	-1	5	-1
L18E 250N	-1	-1	-1	-1	-1	3	-1	3	-1	4	-1	-1	4	-1
L18E 200N	-1	-1	-1	-1	-1	2	-1	2	-1	2	-1	-1	5	-1
L18E 150N	-1	-1	-1	-1	-1	2	-1	3	-1	-1	-1	-1	4	-1
L18E 100N	-1	-1	-1	-1	-1	1	-1	1	-1	2	-1	-1	2	-1
L18E 100N-R	-1	-1	-1	-1	-1	1	-1	1	-1	2	-1	-1	1	-1
L18E 50N	-1	-1	-1	-1	-1	2	-1	2	-1	2	-1	-1	2	-1
L18E 0N	-1	-1	-1	-1	-1	1	-1	1	-1	2	-1	-1	2	-1
L18E 50S	-1	-1	-1	-1	-1	2	-1	2	-1	2	-1	-1	2	-1
L18E 100S	-1	-1	-1	-1	-1	1	-1	1	-1	-1	-1	-1	2	-1
L20E 450N	-1	-1	-1	-1	-1	3	3	2	-1	3	-1	-1	3	-1
L20E 400N	-1	-1	-1	-1	-1	3	2	3	-1	3	-1	-1	3	-1

	057 - ALK	058 - LPB	059 - LPB	060 - LPH	061 - LBI	062 - LBA	063 - LPH	064 - LBA	065 - HPB	066 - LBA	067 - LBI	068 - HPB	069 - LA	070 - HPB
L20E 350N	1	-1	-1	-1	-1	3	1	4	-1	5	-1	-1	6	-1
L20E 300N	-1	-1	-1	-1	-1	3	1	3	-1	3	-1	-1	3	-1
L20E 250N	1	-1	-1	-1	-1	3	-1	3	-1	3	-1	-1	4	-1
L20E 200N	1	-1	-1	-1	-1	3	2	3	-1	3	-1	-1	4	-1
L20E 150N	-1	-1	-1	-1	-1	3	2	3	-1	4	-1	-1	3	-1
L20E 100N	-1	-1	-1	-1	-1	2	-1	2	-1	2	-1	-1	3	-1
L20E 50N	-1	-1	-1	-1	-1	2	2	2	-1	2	-1	-1	2	-1
L20E 0N	-1	-1	-1	-1	-1	1	1	1	-1	2	-1	-1	2	-1
L20E 50S	1	-1	-1	-1	-1	3	4	6	-1	7	-1	-1	8	1
L20E 50S-R	-1	-1	-1	-1	-1	5	3	5	-1	6	-1	-1	7	-1
L20E 100S	-1	-1	-1	-1	-1	1	-1	1	-1	2	-1	-1	2	-1
L20E 150S	-1	-1	-1	-1	-1	1	-1	2	-1	3	-1	-1	4	-1
L22E 550N	-1	-1	-1	-1	-1	2	3	2	-1	2	-1	-1	4	1
L22E 500N	1	-1	-1	-1	-1	2	2	3	-1	4	-1	-1	7	-1
L22E 450N	-1	-1	-1	-1	-1	-1	-1	2	-1	2	-1	-1	2	-1
L22E 400N	-1	-1	-1	-1	-1	2	-1	3	-1	3	-1	-1	3	-1
L22E 350N	-1	-1	-1	-1	-1	2	-1	2	-1	3	-1	-1	3	-1
L22E 300N	-1	-1	-1	-1	-1	2	-1	2	-1	2	-1	-1	3	-1
L22E 250N	-1	-1	-1	-1	-1	2	-1	2	-1	2	-1	-1	2	-1
L22E 200N	-1	-1	-1	-1	-1	-1	-1	2	-1	2	-1	-1	2	-1
L22E 150N	-1	-1	-1	-1	-1	1	-1	1	-1	1	-1	-1	1	-1
L22E 100N	-1	-1	-1	-1	-1	2	-1	2	-1	2	-1	-1	2	-1
L22E 50N	-1	-1	-1	-1	-1	1	-1	1	-1	-1	-1	-1	1	-1
L22E 0N	-1	-1	-1	-1	-1	2	-1	2	-1	3	-1	-1	3	-1
L22E 50S	-1	-1	-1	-1	-1	2	-1	2	-1	2	-1	-1	1	-1
L22E 50S-R	-1	-1	-1	-1	-1	1	-1	2	-1	2	-1	-1	2	-1
L22E 100S	-1	-1	-1	-1	-1	1	-1	1	-1	1	-1	-1	-1	-1
L22E 150S	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	1	-1
L22E 200S	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
L22E 250S	-1	-1	-1	-1	-1	1	-1	1	-1	1	-1	-1	1	-1
L24E 550N	-1	-1	-1	-1	-1	2	2	2	-1	2	-1	-1	4	1
L24E 500N	-1	-1	-1	-1	-1	-1	-1	1	-1	2	-1	-1	1	-1
L24E 450N	-1	-1	-1	-1	-1	2	1	2	-1	3	-1	-1	3	-1
L24E 400N	-1	-1	-1	-1	-1	-1	-1	2	-1	2	-1	-1	2	-1
L24E 350N	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
L24E 300N	-1	-1	-1	-1	-1	1	-1	1	-1	2	-1	-1	2	-1
L24E 250N	-1	-1	-1	-1	-1	2	-1	2	-1	2	-1	-1	2	-1
L24E 200N	-1	-1	-1	-1	-1	2	-1	2	-1	2	-1	-1	2	-1
L24E 150N	-1	-1	-1	-1	-1	-1	3	3	-1	3	-1	-1	2	-1
L24E 100N	13	-1	-1	1	-1	6	7	9	-1	6	-1	-1	9	2
L24E 50N	-1	-1	-1	-1	-1	1	-1	1	-1	2	-1	-1	2	-1
L24E 0N	3	-1	-1	-1	-1	6	3	6	-1	3	-1	-1	5	-1
L24E 50S	-1	-1	-1	-1	-1	1	-1	2	-1	2	-1	-1	1	-1
L24E 50S-R	-1	-1	-1	-1	-1	2	-1	2	-1	2	-1	-1	1	-1
L24E 100S	1	-1	-1	-1	-1	3	-1	2	-1	1	-1	-1	2	-1
L24E 150S	1	-1	-1	-1	-1	4	2	4	-1	6	-1	-1	5	-1
L24E 200S	3	-1	-1	-1	-1	4	1	3	-1	2	-1	-1	3	-1
L24E 250S	-1	-1	-1	-1	-1	2	-1	1	-1	2	-1	-1	3	-1
L26E 500N	-1	-1	-1	-1	-1	2	2	2	-1	3	-1	-1	2	2
L26E 450N	-1	-1	-1	-1	-1	2	1	2	-1	2	-1	-1	2	-1
L26E 400N	-1	-1	-1	-1	-1	2	1	2	-1	-1	-1	-1	2	-1
L26E 350N	-1	-1	-1	-1	-1	1	1	1	-1	2	-1	-1	2	-1
L26E 300N	1	-1	-1	-1	-1	4	2	3	-1	2	-1	-1	3	-1
L26E 250N	-1	-1	-1	-1	-1	2	2	2	-1	3	-1	-1	2	-1

	057 - ALK	058 - LPB	059 - LPB	060 - LPH	061 - LBI	062 - LBA	063 - LPH	064 - LBA	065 - HPB	066 - LBA	067 - LBI	068 - HPB	069 - LA	070 - HPB
L26E 200N	-1	-1	-1	-1	-1	2	3	2	-1	3	-1	-1	2	-1
L26E 150N	2	-1	-1	-1	-1	5	4	4	-1	5	-1	-1	4	1
L26E 100N	1	-1	-1	-1	-1	3	2	3	-1	-1	-1	-1	2	-1
L26E 100N-R	1	-1	-1	-1	-1	3	1	3	-1	3	-1	-1	2	-1
L26E 50N	1	-1	-1	-1	-1	3	2	3	-1	2	-1	-1	2	-1
L26E 0N	-1	-1	-1	-1	-1	2	-1	2	-1	2	-1	-1	2	-1
L26E 50S	-1	-1	-1	-1	-1	1	-1	1	-1	1	-1	-1	1	-1
L26E 100S	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
L26E 150S	-1	-1	-1	-1	-1	3	3	3	-1	3	-1	-1	3	1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
LMB-QA	-1	-1	-1	-1	-1	1	-1	1	-1	1	-1	-1	3	-1
LMB-QA	-1	-1	-1	-1	-1	2	-1	2	-1	2	-1	-1	6	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

	071 - HPB	072 - HPB	073 - HBA	074 - HBA	075 - HPB	076 - LPH	077 - MAR	078 - ALK	079 - LBI	080 - LPH	081 - MAR	082 - LPH	083 - HBA	084 - HBA
L0E 50N	-1	-1	3	3	-1	-1	-1	-1	-1	-1	-1	-1	7	-1
L0E 0N	-1	-1	3	4	-1	-1	-1	1	-1	-1	-1	-1	3	-1
L0E 50S	-1	-1	3	3	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
L0E 100S	-1	-1	3	3	-1	-1	-1	-1	-1	-1	-1	-1	9	-1
L0E 150S	-1	-1	3	4	-1	-1	-1	1	-1	-1	-1	-1	10	-1
L0E 150S-R	-1	-1	3	4	-1	-1	-1	1	-1	-1	-1	-1	9	-1
L0E 200S	-1	-1	4	4	-1	-1	-1	1	-1	-1	-1	-1	9	-1
L0E 250S	1	2	5	6	2	-1	-1	2	-1	-1	1	-1	17	-1
L0E 300S	-1	-1	2	3	-1	-1	-1	-1	-1	-1	-1	-1	10	-1
L0E 350S	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	7	-1
L0E 400S	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
L0E 450S	-1	-1	5	5	-1	-1	-1	2	-1	-1	-1	-1	15	1
L0E 500S	2	3	8	9	3	-1	-1	2	-1	-1	-1	-1	27	1
L2E 150N	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	8	-1
L2E 100N	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
L2E 50N	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
L2E 0N	-1	-1	2	3	-1	-1	-1	-1	-1	-1	-1	-1	9	-1
L2E 50S	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	6	-1
L2E 100S	-1	-1	3	4	-1	-1	-1	-1	-1	-1	-1	-1	12	-1
L2E 150S	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	8	-1
L2E 200S	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	6	-1
L2E 200S-R	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	7	-1
L2E 250S	-1	1	2	2	2	-1	-1	-1	-1	-1	-1	-1	5	-1
L2E 300S	-1	-1	3	3	-1	-1	-1	-1	-1	-1	-1	-1	9	-1
L2E 350S	-1	-1	3	3	-1	-1	-1	-1	-1	-1	-1	-1	9	-1
L2E 400S	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	8	-1
L4E 200N	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	6	-1
L4E 150N	-1	-1	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
L4E 100N	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
L4E 50N	-1	-1	2	1	-1	-1	-1	-1	-1	-1	-1	-1	7	-1
L4E 0N	-1	1	3	4	1	-1	-1	1	-1	-1	-1	-1	10	-1
L4E 50S	-1	1	4	4	1	-1	-1	-1	-1	-1	-1	-1	4	-1
L4E 100S	-1	1	5	4	1	-1	-1	1	-1	-1	-1	-1	10	-1
L4E 150S	-1	-1	4	4	-1	-1	-1	1	-1	-1	-1	-1	10	-1
L4E 200S	-1	-1	4	5	-1	-1	-1	1	-1	-1	-1	-1	11	-1
L4E 250S	-1	-1	3	4	-1	-1	-1	-1	-1	-1	-1	-1	13	-1
L4E 300S	-1	-1	3	3	-1	-1	-1	1	-1	-1	-1	-1	8	-1
L4E 300S-R	-1	-1	3	3	-1	-1	-1	1	-1	-1	-1	-1	9	-1
L6E 200N	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
L6E 150N	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	7	-1
L6E 100N	-1	-1	3	2	-1	-1	-1	-1	-1	-1	-1	-1	13	-1
L6E 50N	-1	-1	3	3	-1	-1	-1	-1	-1	-1	-1	-1	11	-1
L6E 0N	-1	-1	4	4	-1	-1	-1	1	-1	-1	-1	-1	12	-1
L6E 50S	-1	-1	3	3	-1	-1	-1	-1	-1	-1	-1	-1	8	-1
L8E 300N	-1	-1	2	1	-1	-1	-1	-1	-1	-1	-1	-1	8	-1
L8E 250N	-1	-1	2	1	-1	-1	-1	-1	-1	-1	-1	-1	6	-1
L8E 200N	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	7	-1
L8E 150N	-1	-1	2	3	-1	-1	-1	-1	-1	-1	-1	-1	8	-1
L8E 100N	-1	-1	3	3	-1	-1	-1	-1	-1	-1	-1	-1	11	-1
L8E 50N	1	1	2	2	1	-1	-1	-1	-1	-1	-1	-1	8	-1
L8E 0N	-1	1	2	3	2	-1	-1	-1	-1	-1	-1	-1	10	-1
L8E 50S	-1	-1	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	13	-1
L8E 100S	2	2	3	3	1	-1	-1	-1	-1	-1	2	-1	10	-1
L8E 100S-R	2	2	3	4	2	-1	-1	-1	-1	-1	1	-1	11	-1

	071 - HPB	072 - HPB	073 - HBA	074 - HBA	075 - HPB	076 - LPH	077 - MAR	078 - ALK	079 - LBI	080 - LPH	081 - MAR	082 - LPH	083 - HBA	084 - HBA
L10E 350N	-1	1	3	4	-1	-1	-1	-1	-1	-1	-1	-1	12	-1
L10E 300N	-1	1	3	3	1	-1	-1	-1	-1	-1	-1	-1	11	-1
L10E 250N	-1	-1	2	3	-1	-1	-1	-1	-1	-1	-1	-1	9	-1
L10E 200N	-1	-1	3	2	-1	-1	-1	-1	-1	-1	-1	-1	13	-1
L10E 150N	-1	-1	3	3	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
L10E 100N	-1	-1	3	4	-1	-1	-1	1	-1	-1	-1	-1	13	-1
L10E 50N	-1	-1	3	3	-1	-1	-1	-1	-1	-1	-1	-1	10	-1
L10E 0N	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	7	-1
L10E 50S	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	6	-1
L12E 350N	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	9	-1
L12E 300N	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	8	-1
L12E 250N	-1	-1	2	-1	1	-1	-1	-1	-1	-1	-1	-1	11	-1
L12E 200N	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
L12E 150N	-1	-1	3	3	-1	-1	-1	-1	-1	-1	-1	-1	12	-1
L12E 100N	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	11	-1
L12E 100N-R	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	6	-1
L12E 50N	-1	-1	2	1	-1	-1	-1	-1	-1	-1	-1	-1	8	-1
L12E 0N	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	6	-1
L12E 50S	1	2	3	3	1	-1	-1	-1	-1	-1	-1	-1	11	-1
L14E 350N	2	2	2	3	2	-1	-1	-1	-1	-1	1	-1	9	-1
L14E 300N	1	2	2	3	1	-1	-1	-1	-1	-1	1	-1	9	-1
L14E 250N	-1	1	2	3	-1	-1	-1	-1	-1	-1	-1	-1	11	-1
L14E 200N	1	1	3	3	1	-1	-1	-1	-1	-1	1	-1	7	-1
L14E 150N	1	2	3	3	1	-1	-1	-1	-1	-1	1	-1	9	-1
L14E 100N	1	1	3	3	1	-1	-1	-1	-1	-1	1	-1	12	-1
L14E 50N	1	1	2	3	-1	-1	-1	-1	-1	-1	-1	-1	8	-1
L14E 0N	-1	1	3	4	-1	-1	-1	-1	-1	-1	-1	-1	15	-1
L14E 50S	-1	-1	2	1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
L16E 400N	3	3	3	4	2	-1	-1	1	-1	-1	2	-1	9	-1
L16E 350N	3	3	3	4	2	-1	-1	1	-1	-1	2	-1	12	1
L16E 300N	2	2	3	4	1	-1	-1	1	-1	-1	1	-1	14	1
L16E 300N-R	2	2	3	3	1	-1	-1	1	-1	-1	1	-1	10	-1
L16E 250N	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	7	-1
L16E 200N	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	7	-1
L16E 150N	1	1	3	4	-1	-1	-1	1	-1	-1	-1	-1	6	1
L16E 100N	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	7	-1
L16E 50N	-1	-1	2	3	-1	-1	-1	-1	-1	-1	-1	-1	10	-1
L16E 0N	1	2	3	3	1	-1	-1	-1	-1	-1	1	-1	9	-1
L16E 50S	6	7	9	11	5	-1	2	3	-1	2	5	2	27	3
L18E 450N	1	2	2	3	3	-1	-1	-1	-1	-1	-1	-1	12	-1
L18E 400N	-1	1	3	3	1	-1	-1	1	-1	-1	-1	-1	11	-1
L18E 350N	-1	-1	3	3	-1	-1	-1	1	-1	-1	-1	-1	14	-1
L18E 300N	-1	-1	3	3	-1	-1	-1	-1	-1	-1	-1	-1	12	-1
L18E 250N	-1	-1	1	2	-1	-1	-1	-1	-1	-1	-1	-1	7	-1
L18E 200N	-1	-1	3	3	-1	-1	-1	-1	-1	-1	-1	-1	7	-1
L18E 150N	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	8	-1
L18E 100N	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
L18E 100N-R	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
L18E 50N	-1	-1	1	2	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
L18E 0N	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
L18E 50S	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
L18E 100S	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
L20E 450N	1	2	1	1	2	-1	-1	-1	-1	-1	-1	-1	2	-1
L20E 400N	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	2	-1

	071 - HPB	072 - HPB	073 - HBA	074 - HBA	075 - HPB	076 - LPH	077 - MAR	078 - ALK	079 - LBI	080 - LPH	081 - MAR	082 - LPH	083 - HBA	084 - HBA
L20E 350N	-1	-1	3	3	-1	-1	-1	-1	-1	-1	-1	-1	7	1
L20E 300N	-1	-1	1	2	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
L20E 250N	-1	-1	1	2	-1	-1	-1	1	-1	-1	-1	-1	3	-1
L20E 200N	-1	-1	-1	2	-1	-1	-1	1	-1	-1	-1	-1	2	-1
L20E 150N	-1	-1	2	2	-1	-1	-1	1	-1	-1	-1	-1	3	-1
L20E 100N	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
L20E 50N	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
L20E 0N	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
L20E 50S	1	1	4	4	1	-1	-1	2	-1	-1	1	-1	8	-1
L20E 50S-R	-1	1	3	4	1	-1	-1	1	-1	-1	-1	-1	9	-1
L20E 100S	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
L20E 150S	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
L22E 550N	2	2	1	1	2	-1	-1	-1	-1	-1	-1	-1	4	-1
L22E 500N	-1	1	2	2	1	-1	-1	1	-1	-1	-1	-1	6	-1
L22E 450N	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
L22E 400N	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
L22E 350N	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	7	-1
L22E 300N	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
L22E 250N	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
L22E 200N	-1	-1	1	2	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
L22E 150N	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
L22E 100N	-1	-1	1	2	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
L22E 50N	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
L22E 0N	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	7	-1
L22E 50S	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
L22E 50S-R	-1	-1	1	2	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
L22E 100S	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
L22E 150S	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
L22E 200S	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
L22E 250S	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
L24E 550N	2	2	1	1	3	-1	-1	-1	-1	-1	-1	-1	3	-1
L24E 500N	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
L24E 450N	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
L24E 400N	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
L24E 350N	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
L24E 300N	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
L24E 250N	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1
L24E 200N	-1	-1	2	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
L24E 150N	-1	-1	2	2	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
L24E 100N	3	4	1	-1	4	-1	-1	4	-1	-1	2	-1	16	1
L24E 50N	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
L24E 0N	1	1	2	3	-1	-1	-1	2	-1	-1	-1	-1	8	1
L24E 50S	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
L24E 50S-R	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
L24E 100S	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
L24E 150S	-1	-1	3	3	-1	-1	-1	1	-1	-1	-1	-1	9	-1
L24E 200S	-1	-1	1	2	-1	-1	-1	1	-1	-1	-1	-1	5	-1
L24E 250S	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
L26E 500N	3	4	1	2	5	-1	-1	-1	-1	-1	-1	-1	4	-1
L26E 450N	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
L26E 400N	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
L26E 350N	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
L26E 300N	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
L26E 250N	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1

	071 - HPB	072 - HPB	073 - HBA	074 - HBA	075 - HPB	076 - LPH	077 - MAR	078 - ALK	079 - LBI	080 - LPH	081 - MAR	082 - LPH	083 - HBA	084 - HBA
L26E 200N	1	1	2	2	1	-1	-1	-1	-1	-1	-1	-1	3	-1
L26E 150N	1	1	2	2	-1	-1	-1	1	-1	-1	-1	-1	6	-1
L26E 100N	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
L26E 100N-R	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
L26E 50N	-1	-1	1	2	-1	-1	-1	-1	-1	-1	-1	-1	5	-1
L26E 0N	-1	-1	1	2	-1	-1	-1	-1	-1	-1	-1	-1	4	-1
L26E 50S	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
L26E 100S	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
L26E 150S	1	2	1	2	2	-1	-1	-1	-1	-1	-1	-1	4	1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
LMB-QA	-1	-1	1	2	-1	-1	-1	-1	-1	-1	-1	-1	6	-1
LMB-QA	-1	-1	3	2	-1	-1	-1	-1	-1	-1	-1	-1	3	-1
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1

	085 - LPH	086 - LBI	087 - MAR	088 - HBA	089 - THI	090 - HPB	091 - LBI	092 - LPH	093 - LA	094 - LBI	095 - MAR	096 - LPH	097 - HBA	098 - THI
L0E 50N	10	-1	-1	8	-1	-1	-1	1	11	-1	-1	2	8	-1
L0E 0N	9	-1	1	9	-1	-1	-1	1	12	-1	-1	2	9	-1
L0E 50S	8	-1	-1	6	-1	-1	-1	1	9	-1	-1	2	7	-1
L0E 100S	9	-1	-1	8	-1	-1	-1	-1	10	-1	-1	1	8	-1
L0E 150S	10	-1	1	10	-1	1	-1	1	12	-1	-1	2	9	-1
L0E 150S-R	10	-1	-1	9	-1	-1	-1	1	13	-1	-1	2	10	-1
L0E 200S	10	-1	1	10	-1	1	-1	1	15	-1	-1	2	11	1
L0E 250S	18	-1	1	16	-1	1	1	2	26	1	-1	3	20	1
L0E 300S	8	-1	-1	8	-1	-1	-1	-1	9	-1	-1	1	7	-1
L0E 350S	7	-1	-1	7	-1	-1	-1	-1	7	-1	-1	1	5	-1
L0E 400S	3	-1	-1	3	-1	-1	-1	-1	8	-1	-1	1	6	-1
L0E 450S	16	-1	2	15	-1	-1	1	1	25	1	1	2	19	2
L0E 500S	22	-1	2	24	-1	1	2	2	41	2	2	3	32	2
L2E 150N	6	-1	-1	7	-1	-1	-1	1	7	-1	-1	1	6	-1
L2E 100N	7	-1	-1	6	-1	-1	-1	1	8	-1	-1	2	6	-1
L2E 50N	3	-1	-1	3	-1	-1	-1	-1	5	-1	-1	1	4	-1
L2E 0N	7	-1	-1	8	-1	-1	-1	1	9	-1	-1	2	7	-1
L2E 50S	7	-1	-1	6	-1	-1	-1	1	8	-1	-1	2	6	-1
L2E 100S	11	-1	-1	9	-1	-1	-1	1	12	-1	-1	2	9	-1
L2E 150S	8	-1	-1	7	-1	-1	-1	1	8	-1	-1	2	7	-1
L2E 200S	5	-1	-1	5	-1	-1	-1	-1	6	-1	-1	1	5	-1
L2E 200S-R	6	-1	-1	5	-1	-1	-1	1	6	-1	-1	1	5	-1
L2E 250S	6	-1	-1	6	-1	-1	-1	-1	7	-1	-1	1	5	-1
L2E 300S	7	-1	-1	7	-1	-1	-1	1	9	-1	-1	2	7	-1
L2E 350S	9	-1	-1	7	-1	-1	-1	1	9	-1	-1	2	7	-1
L2E 400S	7	-1	-1	6	-1	-1	-1	-1	7	-1	-1	-1	5	-1
L4E 200N	7	-1	-1	6	-1	-1	-1	1	7	-1	-1	2	6	-1
L4E 150N	7	-1	-1	6	-1	-1	-1	-1	4	-1	-1	1	5	-1
L4E 100N	2	-1	-1	2	-1	-1	-1	1	4	-1	-1	2	1	-1
L4E 50N	7	-1	-1	6	-1	-1	-1	1	8	-1	-1	2	6	-1
L4E 0N	11	-1	-1	9	-1	-1	-1	1	12	-1	-1	2	9	-1
L4E 50S	12	-1	-1	9	-1	-1	-1	1	15	-1	-1	2	11	-1
L4E 100S	12	-1	1	7	-1	1	1	1	18	1	1	2	16	1
L4E 150S	11	-1	1	9	-1	-1	-1	-1	14	-1	-1	1	11	-1
L4E 200S	11	-1	1	10	-1	-1	-1	-1	19	1	-1	1	14	1
L4E 250S	10	-1	-1	9	-1	-1	-1	1	13	-1	-1	1	10	-1
L4E 300S	9	-1	-1	8	-1	-1	-1	1	13	-1	-1	2	10	-1
L4E 300S-R	11	-1	1	9	-1	-1	-1	1	13	-1	-1	2	10	-1
L6E 200N	6	-1	1	5	-1	1	-1	2	12	1	-1	3	10	1
L6E 150N	7	-1	1	6	-1	1	-1	2	9	-1	-1	4	8	-1
L6E 100N	9	-1	-1	9	-1	-1	-1	-1	11	-1	-1	1	8	-1
L6E 50N	11	-1	1	9	-1	-1	-1	1	12	-1	-1	3	10	-1
L6E 0N	11	-1	1	9	-1	1	-1	1	16	1	-1	3	12	-1
L6E 50S	8	-1	1	7	-1	1	-1	2	12	-1	-1	3	9	-1
L8E 300N	8	-1	-1	6	-1	-1	-1	1	7	-1	-1	1	5	-1
L8E 250N	7	-1	-1	6	-1	-1	-1	1	6	-1	-1	2	4	-1
L8E 200N	8	-1	-1	5	-1	-1	-1	1	6	-1	-1	2	4	-1
L8E 150N	8	-1	1	8	-1	-1	-1	1	8	-1	-1	2	7	-1
L8E 100N	12	-1	-1	10	-1	-1	-1	2	10	-1	-1	3	8	-1
L8E 50N	8	-1	1	7	-1	1	-1	2	9	-1	-1	3	7	-1
L8E 0N	9	-1	1	9	-1	1	-1	2	9	-1	-1	3	7	-1
L8E 50S	11	-1	1	10	-1	1	-1	2	8	-1	-1	3	7	-1
L8E 100S	9	-1	2	9	-1	2	-1	4	10	-1	1	8	8	-1
L8E 100S-R	10	-1	2	10	-1	2	-1	4	11	-1	-1	8	8	-1

	085 - LPH	086 - LBI	087 - MAR	088 - HBA	089 - THI	090 - HPB	091 - LBI	092 - LPH	093 - LA	094 - LBI	095 - MAR	096 - LPH	097 - HBA	098 - THI
L10E 350N	12	-1	-1	9	-1	-1	-1	1	13	-1	-1	2	10	-1
L10E 300N	8	-1	-1	8	-1	1	-1	1	10	-1	-1	2	8	-1
L10E 250N	9	-1	1	8	-1	-1	-1	-1	10	-1	-1	2	8	-1
L10E 200N	12	-1	2	9	-1	1	-1	-1	9	-1	1	1	7	-1
L10E 150N	9	-1	1	7	-1	1	-1	1	10	-1	-1	2	8	-1
L10E 100N	11	-1	1	10	-1	1	-1	1	15	-1	-1	2	12	1
L10E 50N	10	-1	-1	10	-1	-1	-1	-1	10	-1	-1	1	8	-1
L10E 0N	7	-1	-1	7	-1	-1	-1	-1	7	-1	-1	-1	5	-1
L10E 50S	5	-1	-1	5	-1	-1	-1	-1	6	-1	-1	1	5	-1
L12E 350N	8	-1	-1	7	-1	-1	-1	1	8	-1	-1	1	6	-1
L12E 300N	7	-1	1	6	-1	-1	-1	-1	7	-1	-1	-1	5	-1
L12E 250N	10	-1	-1	8	-1	-1	-1	1	8	-1	-1	2	6	-1
L12E 200N	7	-1	-1	6	-1	-1	-1	1	7	-1	-1	2	6	-1
L12E 150N	12	-1	1	9	-1	1	-1	1	11	-1	-1	2	9	-1
L12E 100N	9	-1	-1	8	-1	-1	-1	-1	7	-1	-1	1	6	-1
L12E 100N-R	7	-1	-1	6	-1	-1	-1	-1	6	-1	-1	-1	5	-1
L12E 50N	7	-1	-1	7	-1	-1	-1	-1	7	-1	-1	1	5	-1
L12E 0N	7	-1	-1	5	-1	-1	-1	-1	6	-1	-1	1	5	-1
L12E 50S	11	-1	-1	8	-1	-1	-1	1	9	-1	-1	2	7	-1
L14E 350N	8	-1	2	7	-1	2	-1	4	9	-1	-1	6	7	-1
L14E 300N	8	-1	1	8	-1	2	-1	3	9	-1	-1	6	7	-1
L14E 250N	10	-1	1	8	-1	1	-1	2	8	-1	-1	4	6	-1
L14E 200N	11	-1	2	9	-1	2	-1	2	9	-1	-1	4	8	-1
L14E 150N	10	-1	2	9	-1	2	-1	3	9	-1	-1	6	7	-1
L14E 100N	12	-1	2	10	-1	2	-1	3	12	-1	-1	5	10	-1
L14E 50N	8	-1	1	8	-1	1	-1	3	8	-1	-1	5	6	-1
L14E 0N	13	-1	1	11	-1	1	-1	2	11	-1	-1	4	8	-1
L14E 50S	10	-1	-1	9	-1	-1	-1	-1	8	-1	-1	1	6	-1
L16E 400N	10	1	2	9	-1	3	-1	7	12	-1	-1	13	10	1
L16E 350N	10	1	2	10	-1	3	-1	7	12	-1	-1	13	9	-1
L16E 300N	13	-1	2	11	-1	2	1	3	13	-1	-1	6	11	-1
L16E 300N-R	10	-1	2	9	-1	2	1	3	12	-1	-1	5	10	-1
L16E 250N	6	-1	-1	5	-1	1	-1	1	6	-1	-1	2	4	-1
L16E 200N	7	-1	-1	6	-1	1	-1	1	7	-1	-1	2	6	-1
L16E 150N	10	-1	1	10	-1	1	1	2	12	-1	-1	4	9	-1
L16E 100N	7	-1	-1	7	-1	-1	-1	-1	6	-1	-1	1	5	-1
L16E 50N	9	-1	1	8	-1	1	-1	2	9	-1	-1	3	8	-1
L16E 0N	10	-1	2	9	-1	2	1	4	9	1	-1	7	8	-1
L16E 50S	33	2	6	30	-1	6	4	14	48	3	-1	25	42	3
L18E 450N	10	-1	1	9	-1	2	-1	3	14	1	-1	5	11	1
L18E 400N	10	-1	1	10	-1	1	-1	2	12	-1	-1	3	9	-1
L18E 350N	14	-1	1	11	-1	1	-1	2	13	-1	-1	3	10	-1
L18E 300N	12	-1	5	9	-1	2	-1	1	11	-1	1	2	8	-1
L18E 250N	9	-1	-1	8	-1	-1	-1	-1	10	-1	-1	1	8	-1
L18E 200N	10	-1	-1	7	-1	-1	-1	-1	7	-1	-1	1	6	-1
L18E 150N	8	-1	-1	7	-1	-1	-1	-1	10	-1	-1	1	7	-1
L18E 100N	3	-1	-1	2	-1	-1	-1	-1	2	-1	-1	-1	3	-1
L18E 100N-R	3	-1	-1	2	-1	-1	-1	-1	4	-1	-1	-1	3	-1
L18E 50N	3	-1	1	2	-1	1	-1	-1	5	-1	-1	1	4	-1
L18E 0N	3	-1	1	3	-1	-1	-1	-1	5	-1	-1	1	4	-1
L18E 50S	3	-1	1	2	-1	-1	-1	-1	2	-1	-1	-1	3	-1
L18E 100S	4	-1	1	2	-1	1	-1	-1	5	-1	-1	1	4	-1
L20E 450N	4	-1	1	3	-1	1	-1	2	7	-1	-1	3	5	-1
L20E 400N	5	-1	1	4	-1	1	-1	1	7	-1	-1	2	5	-1

	085 - LPH	086 - LBI	087 - MAR	088 - HBA	089 - THI	090 - HPB	091 - LBI	092 - LPH	093 - LA	094 - LBI	095 - MAR	096 - LPH	097 - HBA	098 - THI
L20E 350N	9	-1	1	7	-1	1	-1	1	16	1	-1	2	12	1
L20E 300N	5	-1	1	4	-1	1	-1	1	8	-1	-1	2	6	-1
L20E 250N	6	-1	-1	3	-1	-1	-1	-1	11	-1	-1	1	8	-1
L20E 200N	4	-1	-1	3	-1	1	-1	1	8	-1	-1	2	6	-1
L20E 150N	7	-1	1	4	-1	1	-1	2	7	-1	-1	2	6	-1
L20E 100N	4	-1	-1	3	-1	-1	-1	-1	6	-1	-1	1	4	-1
L20E 50N	4	-1	-1	2	-1	-1	-1	1	2	-1	-1	2	4	-1
L20E 0N	3	-1	-1	3	-1	-1	-1	1	4	-1	-1	2	3	-1
L20E 50S	12	-1	1	11	-1	1	1	2	18	1	-1	4	14	1
L20E 50S-R	9	-1	1	8	-1	1	1	2	16	1	-1	3	12	1
L20E 100S	3	-1	-1	2	-1	-1	-1	-1	4	-1	-1	1	3	-1
L20E 150S	6	-1	1	4	-1	1	-1	1	8	-1	-1	2	6	-1
L22E 550N	5	-1	1	2	-1	1	-1	2	9	-1	-1	3	7	-1
L22E 500N	6	-1	1	4	-1	1	-1	1	12	-1	-1	2	9	-1
L22E 450N	3	-1	1	2	-1	-1	-1	-1	2	-1	-1	1	3	-1
L22E 400N	4	-1	-1	4	-1	-1	-1	-1	7	-1	-1	1	6	-1
L22E 350N	6	-1	-1	5	-1	-1	-1	-1	3	-1	-1	1	6	-1
L22E 300N	3	-1	1	2	-1	1	-1	1	6	-1	-1	2	5	-1
L22E 250N	4	-1	1	3	-1	-1	-1	-1	3	-1	-1	1	2	-1
L22E 200N	3	-1	-1	1	-1	-1	-1	-1	2	-1	-1	1	3	-1
L22E 150N	3	-1	-1	2	-1	-1	-1	-1	4	-1	-1	1	3	-1
L22E 100N	3	-1	-1	2	-1	-1	-1	-1	3	-1	-1	1	4	-1
L22E 50N	2	-1	-1	2	-1	-1	-1	-1	2	-1	-1	-1	3	-1
L22E 0N	6	-1	-1	6	-1	-1	-1	-1	3	-1	-1	1	5	-1
L22E 50S	4	-1	-1	3	-1	-1	-1	-1	4	-1	-1	1	3	-1
L22E 50S-R	3	-1	-1	3	-1	-1	-1	-1	3	-1	-1	1	3	-1
L22E 100S	3	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	-1	2	-1
L22E 150S	2	-1	-1	1	-1	-1	-1	-1	3	-1	-1	-1	-1	-1
L22E 200S	2	-1	-1	2	-1	-1	-1	-1	-1	-1	-1	1	2	-1
L22E 250S	1	-1	-1	1	-1	-1	-1	-1	4	-1	-1	1	3	-1
L24E 550N	4	-1	-1	3	-1	-1	-1	1	8	-1	-1	2	6	-1
L24E 500N	3	-1	-1	2	-1	-1	-1	-1	2	-1	-1	-1	3	-1
L24E 450N	4	-1	-1	3	-1	-1	-1	1	7	-1	-1	2	5	-1
L24E 400N	3	-1	-1	2	-1	-1	-1	-1	5	-1	-1	1	4	-1
L24E 350N	1	-1	-1	-1	-1	-1	-1	-1	2	-1	-1	-1	2	-1
L24E 300N	2	-1	-1	1	-1	-1	-1	-1	4	-1	-1	1	2	-1
L24E 250N	3	-1	-1	3	-1	-1	-1	-1	5	-1	-1	1	4	-1
L24E 200N	4	-1	-1	3	-1	-1	-1	-1	6	-1	-1	1	4	-1
L24E 150N	4	-1	-1	3	-1	1	-1	1	3	-1	-1	2	5	-1
L24E 100N	18	-1	2	13	-1	2	1	3	26	1	1	5	16	1
L24E 50N	3	-1	-1	3	-1	-1	-1	-1	5	-1	-1	-1	4	-1
L24E 0N	8	-1	1	8	-1	1	-1	2	17	-1	-1	2	10	-1
L24E 50S	3	-1	-1	3	-1	-1	-1	-1	6	-1	-1	-1	5	-1
L24E 50S-R	3	-1	-1	2	-1	-1	-1	-1	6	-1	-1	-1	4	-1
L24E 100S	4	-1	-1	2	-1	-1	-1	-1	5	-1	-1	1	6	-1
L24E 150S	9	-1	1	6	-1	-1	-1	1	15	1	1	2	8	-1
L24E 200S	6	-1	1	5	-1	-1	-1	1	8	-1	-1	2	9	-1
L24E 250S	4	-1	-1	3	-1	-1	-1	-1	5	-1	-1	1	3	-1
L26E 500N	6	-1	2	4	-1	1	-1	3	11	-1	1	5	7	-1
L26E 450N	3	-1	1	2	-1	-1	-1	1	5	-1	-1	2	3	-1
L26E 400N	3	-1	-1	3	-1	-1	-1	-1	6	-1	-1	1	4	-1
L26E 350N	3	-1	-1	2	-1	-1	-1	1	4	-1	-1	1	3	-1
L26E 300N	5	-1	-1	4	-1	-1	-1	-1	6	-1	-1	1	7	-1
L26E 250N	4	-1	-1	4	-1	-1	-1	1	7	-1	-1	2	5	-1

	085 - LPH	086 - LBI	087 - MAR	088 - HBA	089 - THI	090 - HPB	091 - LBI	092 - LPH	093 - LA	094 - LBI	095 - MAR	096 - LPH	097 - HBA	098 - THI
L26E 200N	3	-1	1	3	-1	1	-1	1	6	-1	-1	2	4	-1
L26E 150N	6	-1	1	6	-1	1	-1	2	12	-1	-1	2	8	-1
L26E 100N	4	-1	-1	3	-1	-1	-1	1	8	-1	-1	2	5	-1
L26E 100N-R	4	-1	-1	2	-1	-1	-1	-1	8	-1	-1	1	6	-1
L26E 50N	6	-1	-1	5	-1	-1	-1	1	9	-1	-1	2	6	-1
L26E 0N	5	-1	-1	4	-1	-1	-1	-1	6	-1	-1	1	4	-1
L26E 50S	3	-1	-1	3	-1	-1	-1	-1	6	-1	-1	1	4	-1
L26E 100S	3	-1	-1	2	-1	-1	-1	-1	4	-1	-1	1	3	-1
L26E 150S	4	-1	1	5	-1	1	-1	2	11	-1	-1	2	7	-1
LMB-QA	2	-1	-1	1	-1	-1	-1	-1	3	-1	-1	-1	2	-1
LMB-QA	6	-1	-1	5	-1	-1	-1	-1	6	-1	-1	-1	4	-1
LMB-QA	13	-1	-1	9	-1	-1	-1	-1	7	-1	-1	-1	6	-1
LMB-QA	2	-1	-1	1	-1	-1	-1	-1	3	-1	-1	-1	2	-1

	099 - LPH	100 - LPH	101 - MAR	102 - MBI	103 - LPH	104 - MAR	105 - ALK	106 - MBI	107 - MBI	108 - LPH	109 - MAR	110 - HBA	111 - MAR	112 - MBI
L0E 50N	-1	1	-1	-1	-1	1	2	-1	-1	3	4	10	2	2
L0E 0N	1	1	-1	-1	-1	1	2	-1	-1	3	4	10	2	3
L0E 50S	-1	1	-1	-1	-1	1	1	-1	1	3	3	8	2	3
L0E 100S	-1	1	-1	-1	-1	1	2	-1	-1	3	3	8	2	2
L0E 150S	1	1	-1	-1	-1	1	2	-1	1	3	3	11	2	3
L0E 150S-R	1	1	-1	-1	-1	1	2	-1	1	3	4	12	2	3
L0E 200S	1	1	-1	-1	-1	1	2	-1	-1	3	4	11	2	3
L0E 250S	1	2	-1	1	1	2	4	-1	1	3	4	21	3	3
L0E 300S	-1	1	-1	-1	-1	1	1	-1	-1	3	4	8	2	2
L0E 350S	-1	-1	-1	-1	-1	-1	1	-1	-1	3	3	7	2	2
L0E 400S	-1	1	-1	-1	-1	1	1	-1	-1	3	3	7	2	2
L0E 450S	-1	1	-1	-1	-1	2	3	-1	-1	3	5	15	2	3
L0E 500S	1	2	-1	1	1	2	5	-1	1	3	5	26	4	4
L2E 150N	-1	1	-1	-1	-1	-1	1	-1	-1	3	4	11	2	3
L2E 100N	-1	1	-1	-1	-1	1	1	-1	-1	3	4	10	2	3
L2E 50N	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	4	6	2	2
L2E 0N	1	1	-1	-1	1	1	2	-1	1	3	4	13	2	3
L2E 50S	-1	1	-1	-1	-1	1	2	-1	-1	3	4	10	2	3
L2E 100S	1	1	-1	-1	-1	1	2	-1	-1	3	4	18	3	3
L2E 150S	-1	1	-1	-1	-1	1	2	-1	-1	3	4	13	2	3
L2E 200S	-1	1	-1	-1	-1	-1	1	-1	-1	3	4	10	2	2
L2E 200S-R	-1	1	-1	-1	-1	-1	1	-1	-1	3	-1	10	2	2
L2E 250S	-1	1	-1	-1	-1	-1	1	-1	-1	3	4	10	2	2
L2E 300S	1	1	-1	-1	-1	1	2	-1	1	3	4	16	3	3
L2E 350S	1	1	-1	-1	-1	1	2	-1	-1	3	4	16	3	3
L2E 400S	-1	-1	-1	-1	-1	-1	1	-1	-1	3	4	10	2	2
L4E 200N	-1	1	-1	-1	-1	1	1	-1	-1	3	4	7	2	2
L4E 150N	-1	1	-1	-1	-1	1	1	-1	-1	3	4	8	2	2
L4E 100N	-1	1	-1	-1	-1	1	1	-1	-1	3	3	7	2	3
L4E 50N	-1	1	-1	-1	-1	1	1	-1	-1	3	4	7	2	2
L4E 0N	1	1	-1	-1	-1	1	2	-1	-1	2	3	9	2	3
L4E 50S	-1	1	-1	-1	-1	1	2	-1	1	3	4	10	2	2
L4E 100S	2	2	-1	-1	1	1	2	-1	-1	3	4	13	2	3
L4E 150S	-1	1	-1	-1	-1	1	2	-1	1	3	4	10	2	3
L4E 200S	-1	1	-1	-1	-1	1	2	-1	1	3	4	13	2	3
L4E 250S	-1	1	-1	-1	-1	1	2	-1	-1	3	4	10	2	2
L4E 300S	1	1	-1	-1	-1	1	2	-1	-1	3	4	10	2	3
L4E 300S-R	1	1	-1	-1	-1	1	2	-1	-1	3	4	10	2	3
L6E 200N	1	2	-1	1	1	2	2	-1	1	3	5	13	2	3
L6E 150N	2	2	-1	1	1	2	2	-1	-1	3	4	13	2	3
L6E 100N	-1	1	-1	-1	-1	-1	2	-1	1	3	4	10	2	2
L6E 50N	1	2	-1	-1	1	1	2	-1	1	3	4	11	2	3
L6E 0N	1	2	-1	1	1	2	2	-1	1	3	4	14	2	3
L6E 50S	1	2	-1	-1	1	2	2	-1	1	3	4	11	2	3
L8E 300N	-1	1	-1	-1	-1	-1	1	-1	-1	3	3	7	2	2
L8E 250N	1	1	-1	-1	1	1	1	-1	-1	3	3	7	2	2
L8E 200N	1	1	-1	-1	-1	1	1	-1	-1	3	3	8	2	2
L8E 150N	1	1	-1	-1	-1	1	2	-1	-1	3	3	12	2	3
L8E 100N	1	2	-1	-1	1	1	2	-1	-1	3	3	11	2	3
L8E 50N	1	2	-1	-1	1	1	1	-1	-1	3	4	10	2	3
L8E 0N	2	2	-1	-1	1	1	2	-1	-1	3	4	12	2	3
L8E 50S	2	2	-1	-1	1	1	2	-1	-1	3	3	11	2	3
L8E 100S	2	3	-1	-1	2	2	2	-1	-1	4	4	12	2	4
L8E 100S-R	3	3	-1	-1	2	2	2	-1	-1	4	4	12	2	4

	099 - LPH	100 - LPH	101 - MAR	102 - MBI	103 - LPH	104 - MAR	105 - ALK	106 - MBI	107 - MBI	108 - LPH	109 - MAR	110 - HBA	111 - MAR	112 - MBI
L10E 350N	1	1	-1	-1	-1	1	2	-1	1	3	4	11	2	3
L10E 300N	1	1	-1	-1	1	1	2	-1	1	3	3	9	2	3
L10E 250N	1	1	-1	-1	-1	1	1	-1	1	3	4	9	2	3
L10E 200N	-1	1	-1	-1	-1	1	2	-1	-1	3	4	9	2	2
L10E 150N	1	1	-1	-1	1	1	1	-1	-1	3	4	9	2	3
L10E 100N	1	1	-1	-1	-1	1	2	-1	1	3	4	12	2	3
L10E 50N	1	1	-1	-1	1	1	2	-1	-1	3	4	9	2	2
L10E 0N	-1	-1	-1	-1	-1	-1	1	-1	-1	2	3	7	2	2
L10E 50S	-1	-1	-1	-1	-1	-1	1	-1	-1	3	3	7	2	2
L12E 350N	-1	1	-1	-1	-1	1	1	-1	-1	3	4	10	2	3
L12E 300N	-1	-1	-1	-1	-1	-1	1	-1	-1	2	3	7	2	2
L12E 250N	-1	1	-1	-1	-1	1	1	-1	-1	3	3	9	2	3
L12E 200N	-1	1	-1	-1	-1	1	1	-1	-1	3	4	7	2	3
L12E 150N	1	1	-1	-1	1	1	2	-1	1	3	4	16	3	3
L12E 100N	-1	-1	-1	-1	-1	-1	1	-1	-1	3	4	9	2	2
L12E 100N-R	-1	-1	-1	-1	-1	-1	1	-1	-1	3	3	7	2	2
L12E 50N	-1	-1	-1	-1	-1	-1	1	-1	-1	3	4	9	2	2
L12E 0N	-1	-1	-1	-1	-1	-1	1	-1	-1	3	4	7	2	2
L12E 50S	1	1	-1	-1	1	1	2	-1	-1	3	4	11	2	3
L14E 350N	2	3	-1	-1	2	2	2	-1	1	3	5	13	2	4
L14E 300N	2	3	-1	-1	2	2	2	-1	1	4	4	12	2	3
L14E 250N	2	2	-1	-1	1	1	1	-1	-1	3	4	10	2	3
L14E 200N	2	2	-1	-1	1	2	2	-1	1	3	4	14	2	3
L14E 150N	2	3	-1	1	2	2	2	-1	-1	3	4	13	2	3
L14E 100N	2	3	-1	1	2	2	2	-1	-1	3	4	15	2	3
L14E 50N	2	2	-1	-1	1	2	2	-1	-1	3	4	10	2	3
L14E 0N	2	2	-1	-1	1	2	2	-1	-1	3	4	11	2	3
L14E 50S	-1	1	-1	-1	-1	-1	1	-1	-1	3	3	7	2	2
L16E 400N	4	6	-1	-1	3	3	2	-1	-1	3	4	16	2	4
L16E 350N	4	6	-1	1	3	3	2	-1	1	4	4	13	2	4
L16E 300N	2	3	-1	1	2	3	2	-1	1	4	4	18	2	4
L16E 300N-R	2	3	-1	1	2	3	2	-1	1	3	4	18	3	3
L16E 250N	1	1	-1	-1	1	1	1	-1	-1	3	3	8	2	3
L16E 200N	1	1	-1	-1	1	1	1	-1	-1	3	4	8	2	2
L16E 150N	2	2	-1	1	1	2	2	-1	-1	3	4	19	2	3
L16E 100N	-1	1	-1	-1	-1	-1	1	-1	-1	3	4	8	2	2
L16E 50N	1	2	-1	-1	1	2	2	-1	-1	3	4	14	2	3
L16E 0N	3	3	-1	1	2	2	2	-1	1	3	5	16	2	3
L16E 50S	8	10	-1	3	5	10	6	2	2	7	14	103	7	9
L18E 450N	2	3	-1	-1	2	3	2	-1	1	4	5	16	2	4
L18E 400N	1	2	-1	-1	1	2	2	-1	1	3	4	11	2	3
L18E 350N	1	2	-1	-1	1	2	2	-1	1	3	4	12	2	3
L18E 300N	2	1	-1	-1	1	2	2	-1	1	3	4	10	2	3
L18E 250N	-1	1	-1	-1	-1	1	2	-1	-1	3	3	9	2	3
L18E 200N	-1	1	-1	-1	-1	-1	2	-1	-1	2	3	7	2	3
L18E 150N	-1	1	-1	-1	-1	1	2	-1	1	3	3	9	2	2
L18E 100N	-1	-1	-1	-1	-1	-1	1	-1	1	3	4	6	2	2
L18E 100N-R	-1	1	-1	-1	-1	1	1	-1	-1	3	4	6	2	2
L18E 50N	1	1	-1	-1	-1	1	1	-1	-1	3	4	9	2	2
L18E 0N	-1	-1	-1	-1	-1	1	1	-1	1	3	4	7	2	2
L18E 50S	-1	1	-1	-1	-1	-1	1	-1	-1	3	4	6	2	2
L18E 100S	-1	1	-1	-1	-1	1	1	-1	-1	3	4	7	2	2
L20E 450N	1	2	-1	-1	1	2	2	-1	-1	3	3	8	2	3
L20E 400N	1	1	-1	-1	1	1	2	-1	1	3	3	8	2	3

	099 - LPH	100 - LPH	101 - MAR	102 - MBI	103 - LPH	104 - MAR	105 - ALK	106 - MBI	107 - MBI	108 - LPH	109 - MAR	110 - HBA	111 - MAR	112 - MBI
L20E 350N	1	2	-1	-1	1	2	3	-1	1	3	5	15	2	3
L20E 300N	1	1	-1	-1	1	1	2	-1	1	3	4	9	2	3
L20E 250N	-1	1	-1	-1	-1	1	2	-1	-1	3	4	8	2	3
L20E 200N	1	1	-1	-1	-1	1	2	-1	1	3	4	8	2	3
L20E 150N	1	2	-1	-1	1	1	2	-1	1	3	4	9	2	3
L20E 100N	-1	1	-1	-1	-1	1	2	-1	1	3	4	7	2	3
L20E 50N	1	1	-1	-1	-1	1	1	-1	-1	3	4	7	2	3
L20E 0N	1	1	-1	-1	-1	1	1	-1	-1	3	4	5	2	3
L20E 50S	2	2	-1	-1	1	2	3	-1	1	3	5	18	3	4
L20E 50S-R	2	2	-1	1	1	2	2	-1	-1	-1	4	16	2	4
L20E 100S	-1	-1	-1	-1	-1	1	-1	-1	-1	3	4	6	2	2
L20E 150S	-1	1	-1	1	-1	1	2	-1	-1	3	4	9	2	3
L22E 550N	2	2	-1	-1	1	2	2	-1	-1	3	4	11	2	4
L22E 500N	1	1	-1	-1	-1	1	2	-1	-1	3	4	10	2	3
L22E 450N	-1	1	-1	-1	-1	-1	1	-1	-1	3	4	6	2	2
L22E 400N	1	1	-1	-1	-1	1	1	-1	-1	3	4	8	2	3
L22E 350N	-1	-1	-1	-1	-1	1	1	-1	-1	3	3	7	2	2
L22E 300N	-1	1	-1	-1	-1	1	1	-1	-1	3	4	8	2	3
L22E 250N	-1	1	-1	-1	-1	1	1	-1	-1	3	4	6	2	2
L22E 200N	-1	1	-1	-1	-1	-1	1	-1	-1	3	4	6	2	2
L22E 150N	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	6	2	2
L22E 100N	-1	-1	-1	-1	-1	-1	1	-1	-1	3	3	6	2	2
L22E 50N	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	4	5	2	2
L22E 0N	-1	-1	-1	-1	-1	-1	1	-1	-1	3	4	7	2	2
L22E 50S	-1	1	-1	-1	-1	-1	1	-1	-1	3	3	5	2	2
L22E 50S-R	-1	1	-1	-1	-1	-1	1	-1	-1	3	3	6	2	2
L22E 100S	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	5	2	2
L22E 150S	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	5	2	2
L22E 200S	-1	1	-1	-1	-1	-1	-1	-1	-1	3	3	6	2	2
L22E 250S	-1	1	-1	-1	-1	-1	1	-1	-1	3	3	5	2	2
L24E 550N	1	1	-1	-1	1	1	1	-1	1	3	4	9	2	3
L24E 500N	-1	-1	-1	-1	-1	-1	1	-1	-1	3	3	5	2	2
L24E 450N	-1	1	-1	-1	-1	1	1	-1	-1	3	3	7	2	2
L24E 400N	-1	-1	-1	-1	-1	-1	1	-1	-1	3	3	6	2	2
L24E 350N	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	5	2	2
L24E 300N	-1	1	-1	-1	-1	-1	1	-1	-1	3	3	5	2	2
L24E 250N	-1	1	-1	-1	-1	-1	1	-1	-1	3	3	6	2	2
L24E 200N	-1	1	-1	-1	-1	-1	1	-1	1	3	3	7	2	2
L24E 150N	1	1	-1	-1	-1	1	2	-1	-1	3	3	8	2	2
L24E 100N	2	2	-1	2	2	3	3	-1	1	3	9	15	3	4
L24E 50N	-1	-1	-1	2	-1	-1	1	-1	-1	3	8	8	2	2
L24E 0N	1	1	-1	2	1	2	3	-1	1	3	9	13	2	3
L24E 50S	-1	-1	-1	2	-1	-1	1	-1	1	3	8	7	2	2
L24E 50S-R	-1	-1	-1	2	-1	1	2	-1	1	3	8	8	2	3
L24E 100S	-1	1	-1	2	-1	-1	2	-1	-1	3	7	9	2	3
L24E 150S	1	1	-1	2	-1	1	2	-1	1	3	9	13	2	3
L24E 200S	-1	1	-1	2	-1	1	2	-1	1	3	9	11	2	3
L24E 250S	-1	1	-1	2	-1	1	1	-1	1	3	9	8	2	2
L26E 500N	-1	3	-1	2	2	4	2	-1	1	3	9	17	2	4
L26E 450N	1	1	-1	2	-1	1	1	-1	1	3	9	7	2	3
L26E 400N	-1	1	-1	2	-1	1	2	-1	-1	3	9	7	2	3
L26E 350N	-1	1	-1	2	-1	1	1	-1	-1	3	8	7	2	3
L26E 300N	-1	1	-1	2	-1	1	2	-1	1	3	8	9	2	3
L26E 250N	-1	1	-1	2	-1	1	1	-1	1	3	9	9	2	3

	099 - LPH	100 - LPH	101 - MAR	102 - MBI	103 - LPH	104 - MAR	105 - ALK	106 - MBI	107 - MBI	108 - LPH	109 - MAR	110 - HBA	111 - MAR	112 - MBI
L26E 200N	1	1	-1	2	1	1	1	-1	1	3	9	8	2	3
L26E 150N	1	1	-1	2	1	2	2	-1	-1	3	8	10	2	3
L26E 100N	-1	1	-1	2	-1	1	2	-1	1	3	9	8	2	3
L26E 100N-R	-1	1	-1	2	-1	1	2	-1	1	3	8	8	2	2
L26E 50N	-1	1	-1	2	-1	1	2	-1	1	3	8	9	2	-1
L26E 0N	-1	1	-1	2	-1	1	1	-1	-1	3	8	8	2	2
L26E 50S	-1	1	-1	2	-1	1	1	-1	1	3	9	9	2	3
L26E 100S	-1	1	-1	2	-1	-1	1	-1	1	3	8	7	2	2
L26E 150S	1	1	-1	2	1	1	2	-1	1	3	9	11	2	3
LMB-QA	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	5	2	2
LMB-QA	-1	-1	-1	-1	-1	-1	1	-1	-1	3	3	6	2	2
LMB-QA	-1	-1	-1	-1	-1	-1	1	-1	-1	3	3	7	2	2
LMB-QA	-1	-1	-1	2	-1	-1	-1	-1	-1	3	7	6	2	2

	113 -HBA	114 - MBI	115 - MBI	116 - MAR	117 - HA	118 - MPH	119 - HBA	120 - THI	121 - MPH	122 - MPH	123 - MPH	124 - MBI	125 - HAR	126 - MPH
L0E 50N	7	3	3	2	15	3	10	2	3	4	3	3	3	3
L0E 0N	7	3	3	2	18	3	10	2	3	4	3	3	3	3
L0E 50S	7	3	3	2	18	3	13	2	3	4	3	3	3	3
L0E 100S	8	2	3	2	15	2	8	2	2	4	2	3	3	3
L0E 150S	7	3	4	2	17	3	11	2	3	4	3	-1	3	3
L0E 150S-R	8	3	3	2	19	3	12	2	3	4	3	3	3	3
L0E 200S	10	3	4	2	20	3	11	2	3	5	3	3	3	3
L0E 250S	12	4	5	2	29	3	21	2	3	5	3	4	3	3
L0E 300S	7	3	3	2	14	3	8	2	3	4	3	3	3	3
L0E 350S	7	2	3	2	12	2	7	2	2	4	3	3	3	2
L0E 400S	6	2	3	2	11	2	8	2	-1	4	2	3	3	3
L0E 450S	12	3	4	2	26	3	14	2	3	5	3	3	3	3
L0E 500S	15	5	5	2	34	4	22	2	-1	5	3	4	4	4
L2E 150N	6	2	3	2	15	3	9	2	2	4	3	3	3	3
L2E 100N	8	3	3	2	16	3	9	2	3	4	3	3	3	3
L2E 50N	7	2	3	2	12	2	6	2	3	4	3	3	3	3
L2E 0N	6	3	3	2	19	3	10	2	3	4	3	3	3	3
L2E 50S	7	3	3	2	18	3	9	2	2	4	3	-1	3	3
L2E 100S	12	3	3	2	23	3	11	2	3	4	3	3	3	3
L2E 150S	7	3	3	2	18	3	9	-1	3	4	3	3	3	3
L2E 200S	5	3	3	2	13	3	8	2	2	4	2	3	3	3
L2E 200S-R	5	2	3	2	12	3	8	2	3	4	3	3	3	3
L2E 250S	7	2	3	2	16	3	8	2	2	4	2	3	3	3
L2E 300S	7	3	3	2	20	3	11	2	3	4	3	3	3	3
L2E 350S	7	3	3	2	18	3	10	2	3	4	2	3	3	3
L2E 400S	6	2	3	2	15	2	8	2	2	4	2	3	3	3
L4E 200N	7	3	3	2	13	3	8	2	3	4	3	3	3	3
L4E 150N	7	3	3	2	17	3	13	-1	3	4	3	3	3	3
L4E 100N	6	3	3	2	11	3	7	2	3	4	3	3	3	3
L4E 50N	6	2	3	2	13	3	8	2	-1	4	3	3	3	3
L4E 0N	7	3	3	2	18	3	10	2	3	4	3	3	3	3
L4E 50S	8	3	3	2	18	3	11	2	3	4	3	3	3	3
L4E 100S	10	3	4	2	21	3	13	2	3	4	3	3	3	3
L4E 150S	8	2	3	2	17	3	10	2	2	4	3	3	3	3
L4E 200S	10	2	3	2	18	3	11	2	2	4	2	3	-1	3
L4E 250S	6	2	3	2	18	3	10	2	3	4	3	3	3	3
L4E 300S	8	3	4	2	17	3	10	2	3	4	3	3	3	3
L4E 300S-R	9	3	4	2	18	3	11	2	3	4	3	4	3	3
L6E 200N	8	3	3	3	30	8	12	2	6	5	7	3	4	8
L6E 150N	7	3	4	3	22	7	10	2	2	4	6	3	3	7
L6E 100N	8	2	3	2	19	3	10	2	3	5	3	3	3	3
L6E 50N	8	3	3	2	15	4	11	2	4	4	3	3	3	4
L6E 0N	10	3	3	2	19	4	11	2	4	5	4	3	3	4
L6E 50S	10	3	3	2	20	5	11	2	4	5	4	3	-1	5
L8E 300N	7	2	3	2	12	3	7	2	3	4	3	3	3	3
L8E 250N	7	3	3	2	12	3	6	2	3	5	3	3	3	3
L8E 200N	7	3	3	2	14	3	1	2	3	4	3	3	3	3
L8E 150N	9	3	4	2	18	3	9	2	3	4	3	3	3	3
L8E 100N	9	3	4	2	17	3	8	2	3	4	3	3	3	3
L8E 50N	9	3	3	2	16	3	9	2	3	4	3	3	3	3
L8E 0N	8	3	4	2	17	3	9	2	3	4	3	3	3	3
L8E 50S	8	3	3	2	16	3	9	2	3	4	3	3	3	3
L8E 100S	7	5	6	2	16	5	9	2	4	4	4	3	4	5
L8E 100S-R	7	5	6	2	16	6	9	2	5	4	4	3	3	5

	113 -HBA	114 - MBI	115 - MBI	116 - MAR	117 - HA	118 - MPH	119 - HBA	120 - THI	121 - MPH	122 - MPH	123 - MPH	124 - MBI	125 - HAR	126 - MPH
L10E 350N	8	3	3	2	19	3	10	2	3	5	3	3	3	3
L10E 300N	6	3	3	2	16	3	9	2	3	5	3	3	3	3
L10E 250N	6	3	3	2	15	3	10	2	3	4	3	3	3	3
L10E 200N	8	2	3	2	16	3	10	2	3	4	2	3	3	-1
L10E 150N	9	3	4	2	18	3	10	2	3	4	3	3	3	3
L10E 100N	9	3	3	2	18	3	11	2	3	4	3	3	3	3
L10E 50N	8	3	3	2	15	3	9	2	3	4	3	3	3	3
L10E 0N	7	2	3	2	12	2	7	2	2	4	2	3	3	3
L10E 50S	7	2	2	2	11	3	7	2	3	4	3	3	3	3
L12E 350N	8	3	3	2	15	3	8	2	3	4	3	3	3	3
L12E 300N	7	2	3	2	12	2	6	2	2	4	3	3	3	3
L12E 250N	7	2	3	2	15	3	8	2	3	4	3	3	3	3
L12E 200N	7	3	3	2	13	3	8	-1	3	5	3	3	3	3
L12E 150N	8	3	4	2	19	3	11	2	3	4	3	3	3	3
L12E 100N	6	2	3	2	13	3	8	2	2	4	3	3	3	3
L12E 100N-R	7	2	3	2	11	2	6	2	2	4	-1	3	3	3
L12E 50N	7	2	3	2	12	3	8	2	3	4	3	3	-1	3
L12E 0N	6	2	3	2	12	3	8	2	2	4	3	3	3	3
L12E 50S	8	3	3	2	16	3	9	2	-1	4	3	3	3	3
L14E 350N	7	4	5	2	18	7	11	2	6	4	7	3	3	7
L14E 300N	9	4	4	2	16	4	8	2	4	4	4	3	3	4
L14E 250N	9	3	4	2	14	3	9	2	3	4	3	3	3	4
L14E 200N	8	3	3	2	17	4	10	2	4	5	4	3	3	4
L14E 150N	8	4	4	2	16	5	9	2	4	5	4	3	3	5
L14E 100N	9	4	4	2	23	4	12	2	4	5	4	3	3	4
L14E 50N	7	4	4	2	14	4	8	2	4	5	4	3	3	4
L14E 0N	9	3	4	2	18	3	10	2	3	5	3	3	3	4
L14E 50S	7	2	3	2	13	3	8	2	3	4	2	3	3	3
L16E 400N	9	7	9	2	20	9	12	2	7	4	7	4	4	8
L16E 350N	8	7	9	2	18	7	11	2	6	5	6	4	4	6
L16E 300N	12	4	4	2	23	5	12	2	4	5	4	3	-1	5
L16E 300N-R	10	3	4	2	23	5	12	2	4	4	4	3	3	4
L16E 250N	8	3	3	2	12	3	8	2	3	5	3	3	3	3
L16E 200N	6	2	3	2	10	3	8	2	3	4	3	3	3	3
L16E 150N	10	3	4	3	24	4	12	2	3	5	3	3	4	3
L16E 100N	7	2	3	2	11	2	7	2	2	4	3	3	3	2
L16E 50N	10	3	4	2	21	4	11	2	4	5	4	4	4	4
L16E 0N	10	4	5	2	17	6	10	-1	5	5	5	3	3	5
L16E 50S	44	11	12	6	105	18	45	3	6	8	13	6	7	14
L18E 450N	10	5	5	3	31	14	14	2	11	5	12	3	4	13
L18E 400N	7	3	3	2	15	6	10	2	6	5	5	3	3	6
L18E 350N	9	3	4	2	21	5	13	2	4	5	5	4	3	5
L18E 300N	9	3	3	2	19	4	10	2	4	4	3	3	3	3
L18E 250N	9	2	3	2	15	3	9	2	3	5	3	3	3	3
L18E 200N	8	2	3	2	16	3	9	2	3	4	3	3	3	3
L18E 150N	7	3	3	2	13	3	9	2	3	4	3	3	3	3
L18E 100N	6	2	3	2	9	2	6	2	2	5	3	3	3	3
L18E 100N-R	6	2	3	2	9	3	7	2	3	4	3	3	3	3
L18E 50N	7	2	3	2	11	3	8	2	3	4	3	3	3	3
L18E 0N	7	2	3	2	12	3	8	2	3	5	3	3	3	3
L18E 50S	6	3	3	2	10	3	7	2	3	4	3	3	3	3
L18E 100S	6	3	3	2	11	4	-1	2	3	4	3	3	3	3
L20E 450N	7	3	4	2	12	5	9	2	4	5	5	3	3	5
L20E 400N	6	3	3	2	13	3	8	2	3	5	3	3	3	3

	113 -HBA	114 - MBI	115 - MBI	116 - MAR	117 - HA	118 - MPH	119 - HBA	120 - THI	121 - MPH	122 - MPH	123 - MPH	124 - MBI	125 - HAR	126 - MPH
L20E 350N	10	3	4	2	20	5	13	2	4	5	4	3	3	5
L20E 300N	6	3	3	2	13	4	10	2	4	5	3	3	3	3
L20E 250N	7	3	3	2	17	3	10	2	3	5	3	3	3	3
L20E 200N	8	3	3	2	14	3	8	2	3	5	3	3	3	3
L20E 150N	9	3	3	2	13	3	9	2	3	5	3	3	-1	3
L20E 100N	7	2	3	2	11	3	8	2	3	5	3	3	3	3
L20E 50N	6	2	3	2	11	3	7	2	-1	4	3	3	3	3
L20E 0N	6	2	3	2	10	3	7	2	3	5	3	3	3	3
L20E 50S	10	4	4	2	23	5	15	2	4	5	4	3	3	5
L20E 50S-R	10	3	4	2	20	5	14	2	4	5	4	4	4	4
L20E 100S	6	2	3	2	12	3	7	2	3	4	3	3	3	3
L20E 150S	8	2	3	2	14	4	9	2	3	5	4	3	3	4
L22E 550N	8	4	5	2	23	8	12	2	7	5	8	4	4	8
L22E 500N	8	3	3	2	17	4	9	2	-1	4	3	3	3	3
L22E 450N	6	2	3	2	9	3	8	2	3	4	3	3	3	3
L22E 400N	7	2	3	2	14	3	9	2	3	4	3	-1	3	3
L22E 350N	6	2	3	2	12	3	8	2	3	4	3	3	3	3
L22E 300N	7	3	3	2	12	3	8	2	3	4	3	3	3	3
L22E 250N	7	2	3	2	11	3	7	2	3	5	3	3	3	3
L22E 200N	7	2	3	2	10	3	7	2	3	4	3	3	3	3
L22E 150N	6	2	3	2	10	2	7	2	2	4	3	3	3	3
L22E 100N	6	2	3	2	12	3	8	2	3	4	3	3	3	3
L22E 50N	5	2	2	2	10	3	7	2	2	4	2	3	3	3
L22E 0N	7	2	3	2	13	3	8	2	3	4	3	3	3	3
L22E 50S	5	3	3	2	9	3	7	2	3	4	3	3	3	3
L22E 50S-R	6	2	3	2	10	3	7	2	3	4	3	3	3	3
L22E 100S	5	2	3	2	8	2	6	2	2	4	2	3	3	3
L22E 150S	5	2	3	2	8	3	6	2	-1	4	3	3	3	3
L22E 200S	6	2	3	2	8	3	6	2	3	4	3	3	3	3
L22E 250S	5	3	3	2	9	3	6	2	3	4	3	3	3	3
L24E 550N	7	3	3	2	14	4	9	-1	4	4	4	3	3	4
L24E 500N	5	2	3	2	9	3	6	2	3	4	2	3	3	3
L24E 450N	6	2	3	2	11	3	8	2	3	4	3	3	3	3
L24E 400N	5	2	3	2	10	3	6	2	3	4	3	3	3	3
L24E 350N	5	2	2	2	5	2	5	2	2	4	2	3	3	2
L24E 300N	6	2	3	2	11	3	6	2	2	4	3	3	-1	3
L24E 250N	6	2	3	2	11	3	7	2	2	4	2	3	3	3
L24E 200N	7	2	3	2	11	3	7	2	3	4	3	3	3	3
L24E 150N	1	2	3	2	12	3	8	2	3	4	3	3	3	3
L24E 100N	9	4	4	3	23	5	14	2	4	12	4	4	4	4
L24E 50N	5	2	3	2	10	3	8	2	2	8	2	3	3	3
L24E 0N	9	3	3	2	17	3	10	2	-1	10	3	3	4	3
L24E 50S	8	2	3	2	11	2	9	2	2	8	3	3	3	3
L24E 50S-R	3	3	3	2	11	3	9	2	3	8	2	3	3	3
L24E 100S	9	3	3	2	14	3	10	2	3	9	3	3	3	3
L24E 150S	11	3	3	2	18	3	11	2	3	9	3	3	3	3
L24E 200S	8	3	3	2	16	3	10	2	3	9	3	3	3	4
L24E 250S	8	2	3	2	13	3	8	2	3	9	3	3	3	3
L26E 500N	7	6	6	3	30	17	14	2	7	9	18	4	5	20
L26E 450N	7	3	3	2	12	4	8	2	-1	8	4	3	3	4
L26E 400N	-1	3	3	2	11	3	8	3	3	7	3	3	3	3
L26E 350N	8	3	3	2	11	3	7	2	3	8	3	3	3	3
L26E 300N	10	3	3	2	15	-1	10	2	3	7	3	3	3	3
L26E 250N	9	3	3	2	12	3	8	2	3	7	3	3	3	3

	113 -HBA	114 - MBI	115 - MBI	116 - MAR	117 - HA	118 - MPH	119 - HBA	120 - THI	121 - MPH	122 - MPH	123 - MPH	124 - MBI	125 - HAR	126 - MPH
L26E 200N	7	3	3	2	12	3	8	2	-1	8	3	3	3	3
L26E 150N	9	3	3	2	15	3	10	2	-1	8	3	3	-1	4
L26E 100N	8	3	3	2	12	3	9	2	3	7	3	3	3	3
L26E 100N-R	8	3	3	2	13	3	9	2	3	8	3	3	3	3
L26E 50N	6	3	3	2	14	3	9	2	3	7	3	3	3	3
L26E 0N	8	2	3	2	12	3	8	2	3	7	3	3	3	3
L26E 50S	9	2	3	2	14	4	7	2	3	8	4	3	4	4
L26E 100S	7	3	3	2	10	3	7	2	-1	8	4	3	3	4
L26E 150S	10	3	4	2	15	4	10	2	3	7	4	3	3	4
LMB-QA	5	2	3	2	9	2	6	2	2	4	2	3	3	3
LMB-QA	7	2	2	2	9	3	6	2	3	4	3	3	3	3
LMB-QA	7	2	3	2	13	2	10	2	2	4	3	3	3	3
LMB-QA	6	2	2	2	9	3	6	2	3	7	3	3	3	3

	127 - MPH	128 - MPH	129 - HAR	130 - HAR	131 - MPH	132 - ALK	133 - HAR	134 - HAR	135 - MPH	136 - MPH	137 - HBI	138 - HBI	139 - HPH	140 - HPH
L0E 50N	2	2	2	3	3	13	8	10	9	7	4	6	1	6
L0E 0N	2	1	2	3	3	14	9	11	8	6	4	6	8	6
L0E 50S	2	1	2	3	3	18	10	11	9	7	4	6	7	6
L0E 100S	2	2	2	2	3	13	9	11	8	8	5	6	7	6
L0E 150S	2	2	2	3	2	14	8	12	8	7	4	6	8	7
L0E 150S-R	2	2	2	3	3	16	9	11	9	8	5	7	8	6
L0E 200S	2	2	2	3	2	16	9	12	8	7	5	6	8	6
L0E 250S	3	2	2	3	3	25	10	12	9	8	5	7	8	7
L0E 300S	2	2	2	3	2	13	9	12	8	6	4	7	8	7
L0E 350S	2	1	2	3	3	10	8	11	8	6	4	6	1	6
L0E 400S	2	1	2	2	2	12	8	11	8	8	5	6	8	6
L0E 450S	2	2	2	3	3	18	9	14	9	7	4	7	8	6
L0E 500S	3	2	2	3	3	25	10	14	9	7	5	7	9	7
L2E 150N	2	2	2	2	3	12	9	11	8	8	5	7	8	6
L2E 100N	2	1	2	3	2	13	8	11	8	7	4	7	8	7
L2E 50N	2	2	2	2	2	10	9	10	8	7	4	6	7	6
L2E 0N	2	1	2	2	2	12	9	11	9	6	4	7	7	6
L2E 50S	2	1	2	2	3	13	9	12	9	8	5	6	8	6
L2E 100S	2	2	2	3	3	14	9	12	8	6	4	6	8	6
L2E 150S	2	1	2	2	3	13	9	12	8	7	5	6	8	6
L2E 200S	2	2	2	3	2	12	8	11	7	6	4	6	7	6
L2E 200S-R	2	2	2	2	2	11	8	10	8	6	4	6	7	6
L2E 250S	2	2	2	2	3	12	8	11	8	7	4	7	8	6
L2E 300S	2	2	2	2	2	14	9	11	8	6	4	7	1	6
L2E 350S	2	1	2	2	3	12	9	11	8	7	4	6	7	6
L2E 400S	2	1	2	2	2	11	8	11	8	8	4	6	7	6
L4E 200N	2	2	2	3	3	11	8	11	9	6	5	7	1	6
L4E 150N	2	2	2	3	3	17	9	11	9	7	4	6	8	7
L4E 100N	2	2	2	3	3	10	8	10	9	7	4	7	7	6
L4E 50N	2	1	2	3	3	12	9	10	8	7	5	7	7	7
L4E 0N	2	2	2	3	3	14	8	11	9	7	4	7	7	7
L4E 50S	2	1	2	3	3	15	9	11	8	8	4	6	8	6
L4E 100S	2	2	2	3	3	17	9	11	8	8	5	7	2	7
L4E 150S	2	1	2	3	2	14	9	11	8	7	4	6	7	7
L4E 200S	2	2	2	3	2	15	8	12	8	7	4	7	8	6
L4E 250S	2	2	2	3	3	14	10	12	9	6	4	6	-1	7
L4E 300S	2	1	2	3	2	14	9	11	8	7	4	7	8	7
L4E 300S-R	2	2	2	3	3	14	9	11	9	7	5	7	7	7
L6E 200N	5	2	2	3	4	18	9	17	13	9	6	8	12	7
L6E 150N	5	2	2	3	4	16	10	13	12	7	5	8	11	6
L6E 100N	2	2	2	3	3	14	8	11	9	8	4	7	7	6
L6E 50N	3	1	2	3	3	14	9	12	9	6	5	7	9	7
L6E 0N	3	2	2	3	3	16	10	13	9	8	5	7	9	7
L6E 50S	3	2	2	3	3	16	10	13	11	8	5	7	9	7
L8E 300N	2	1	2	3	3	11	8	11	8	7	5	6	7	7
L8E 250N	2	1	2	2	3	10	8	11	9	7	4	7	8	7
L8E 200N	2	2	2	3	3	11	9	11	8	7	4	7	8	8
L8E 150N	2	2	2	3	3	13	9	11	9	7	4	7	8	7
L8E 100N	3	2	2	2	3	12	9	11	9	7	4	7	8	7
L8E 50N	2	2	2	3	3	13	9	12	9	7	5	7	8	6
L8E 0N	3	2	2	2	3	12	9	11	8	8	5	7	8	6
L8E 50S	3	2	2	3	3	12	9	11	9	7	5	7	8	6
L8E 100S	4	2	2	3	3	15	9	12	10	8	5	8	4	7
L8E 100S-R	4	2	2	3	3	14	9	11	10	8	5	8	8	7

	127 - MPH	128 - MPH	129 - HAR	130 - HAR	131 - MPH	132 - ALK	133 - HAR	134 - HAR	135 - MPH	136 - MPH	137 - HBI	138 - HBI	139 - HPH	140 - HPH
L10E 350N	2	2	2	3	3	15	9	12	9	8	5	7	8	7
L10E 300N	2	2	2	3	3	14	9	12	9	8	5	7	9	7
L10E 250N	2	1	2	3	3	14	10	12	8	8	5	7	1	6
L10E 200N	2	2	2	2	3	14	9	12	8	7	5	7	8	6
L10E 150N	3	2	2	3	3	13	9	12	9	8	4	7	8	7
L10E 100N	3	2	3	3	3	15	9	12	9	8	5	7	8	7
L10E 50N	2	2	2	3	3	13	10	11	9	7	5	7	7	6
L10E 0N	2	2	2	3	2	10	9	11	8	8	4	7	8	7
L10E 50S	2	2	2	2	3	11	9	11	9	8	5	7	8	7
L12E 350N	2	2	2	3	2	13	9	11	8	7	4	6	8	6
L12E 300N	2	1	2	3	3	11	8	10	8	7	4	6	8	7
L12E 250N	2	2	2	3	3	12	9	11	8	7	4	7	8	7
L12E 200N	2	2	2	3	3	11	9	11	9	8	5	7	8	6
L12E 150N	3	2	2	3	3	14	9	13	9	8	4	7	8	7
L12E 100N	2	1	2	2	3	12	9	11	8	8	5	7	8	6
L12E 100N-R	2	2	2	3	2	11	9	12	8	6	4	6	8	7
L12E 50N	2	2	2	3	3	12	9	11	8	8	5	7	8	7
L12E 0N	2	1	2	3	3	11	8	11	8	7	5	7	8	1
L12E 50S	2	2	2	3	3	13	9	12	8	8	5	7	1	7
L14E 350N	5	2	2	3	5	15	10	13	13	9	6	8	11	8
L14E 300N	3	2	2	3	3	13	9	12	9	8	5	7	8	6
L14E 250N	3	2	2	3	3	13	9	12	9	9	5	7	8	7
L14E 200N	3	2	2	3	3	14	10	12	9	8	5	7	9	8
L14E 150N	4	2	2	3	3	13	9	12	9	8	5	7	9	7
L14E 100N	3	2	2	3	3	15	10	12	10	8	5	7	9	7
L14E 50N	3	2	2	3	3	13	9	12	10	9	5	7	9	7
L14E 0N	3	2	2	3	3	13	9	11	9	7	4	7	8	7
L14E 50S	2	2	2	2	3	11	9	11	9	8	5	6	7	6
L16E 400N	6	2	2	3	5	18	10	14	15	9	7	8	11	7
L16E 350N	4	2	2	3	4	18	10	13	13	8	6	9	9	7
L16E 300N	3	2	2	3	3	16	10	12	10	8	5	7	9	7
L16E 300N-R	3	2	2	3	4	18	10	13	9	8	5	7	2	7
L16E 250N	2	2	2	3	3	12	9	11	9	7	5	7	8	7
L16E 200N	2	1	2	3	3	11	8	11	8	7	4	7	8	7
L16E 150N	3	2	2	3	3	17	10	13	9	8	5	8	8	7
L16E 100N	2	2	2	3	3	11	9	12	9	8	4	6	8	7
L16E 50N	3	2	2	3	3	16	10	14	10	9	5	7	9	1
L16E 0N	4	2	2	3	4	14	10	13	12	8	5	8	10	8
L16E 50S	10	3	3	4	7	49	15	27	19	13	7	12	15	10
L18E 450N	9	2	3	3	6	20	10	15	19	11	7	10	16	9
L18E 400N	4	2	2	3	4	14	10	12	11	9	6	8	11	7
L18E 350N	4	2	2	3	4	17	10	13	11	9	6	8	10	7
L18E 300N	3	2	2	2	3	14	9	10	10	8	4	7	1	7
L18E 250N	2	1	2	3	3	13	9	11	8	8	5	7	1	6
L18E 200N	2	2	2	3	3	14	9	11	9	9	4	7	8	7
L18E 150N	2	2	2	3	3	13	9	11	8	8	5	7	8	7
L18E 100N	2	2	2	3	3	11	9	13	8	7	4	7	8	7
L18E 100N-R	2	2	2	3	2	10	8	12	8	7	4	7	8	7
L18E 50N	3	2	2	3	3	13	9	11	9	8	5	8	8	7
L18E 0N	2	2	2	3	2	12	9	12	8	7	5	6	8	7
L18E 50S	2	2	2	3	3	11	9	12	9	8	5	7	8	6
L18E 100S	3	2	2	3	3	12	9	11	10	8	5	7	8	7
L20E 450N	4	2	2	3	3	13	9	11	11	9	5	8	1	8
L20E 400N	3	2	2	3	3	12	10	12	9	7	5	7	8	7

	127 - MPH	128 - MPH	129 - HAR	130 - HAR	131 - MPH	132 - ALK	133 - HAR	134 - HAR	135 - MPH	136 - MPH	137 - HBI	138 - HBI	139 - HPH	140 - HPH
L20E 350N	4	2	2	3	4	19	9	14	11	9	5	8	9	7
L20E 300N	3	2	2	3	3	14	10	12	10	8	5	7	8	7
L20E 250N	3	2	2	3	3	14	9	12	9	8	5	7	9	7
L20E 200N	2	2	2	3	3	15	10	12	8	7	5	7	1	7
L20E 150N	3	2	3	3	3	14	9	13	9	9	5	8	9	7
L20E 100N	2	2	2	3	3	12	9	12	9	7	4	7	8	7
L20E 50N	2	2	2	3	2	12	9	12	8	8	5	7	1	6
L20E 0N	2	2	2	3	3	12	8	12	8	8	6	7	8	7
L20E 50S	3	2	3	3	4	20	10	15	11	7	5	8	9	7
L20E 50S-R	3	2	2	3	3	18	10	14	10	9	5	8	1	7
L20E 100S	2	2	2	3	2	11	9	11	9	8	5	7	8	7
L20E 150S	3	2	2	3	3	14	10	14	10	7	5	7	9	6
L22E 550N	6	2	2	3	5	17	10	14	16	9	7	9	12	8
L22E 500N	3	2	2	3	3	14	9	11	10	9	5	8	1	7
L22E 450N	2	2	2	3	2	11	10	12	8	7	4	7	8	6
L22E 400N	2	2	2	3	3	13	9	12	10	8	5	7	8	7
L22E 350N	2	2	2	3	3	11	9	11	9	7	4	7	9	7
L22E 300N	2	2	2	3	3	12	9	12	9	7	4	7	8	7
L22E 250N	2	2	2	2	3	12	9	11	8	7	4	7	8	6
L22E 200N	2	2	2	3	3	12	9	11	8	6	4	7	8	6
L22E 150N	2	1	2	3	3	10	9	11	8	8	5	6	8	6
L22E 100N	2	2	2	3	3	11	9	11	8	7	4	6	8	6
L22E 50N	2	2	2	2	3	11	9	11	9	7	4	7	7	6
L22E 0N	2	2	2	3	2	11	10	12	8	7	4	7	7	7
L22E 50S	2	1	2	3	3	10	9	12	8	8	5	7	-1	6
L22E 50S-R	2	2	2	3	3	11	10	11	8	6	4	7	-1	7
L22E 100S	2	2	2	3	3	10	9	11	8	7	4	7	8	7
L22E 150S	2	2	2	2	2	9	9	10	8	7	4	7	8	7
L22E 200S	2	1	2	3	3	10	9	11	8	7	5	7	1	7
L22E 250S	2	1	2	3	3	10	9	11	9	7	4	6	8	6
L24E 550N	3	2	2	3	3	13	9	11	11	7	5	7	8	6
L24E 500N	2	1	2	3	2	10	9	10	9	7	4	7	7	6
L24E 450N	3	2	2	3	3	12	8	12	9	7	4	7	8	7
L24E 400N	2	2	2	3	3	11	9	12	9	6	5	6	7	7
L24E 350N	2	1	2	3	2	9	8	10	8	8	4	6	8	7
L24E 300N	2	2	2	2	2	11	9	10	9	7	5	7	8	6
L24E 250N	2	1	2	2	3	10	9	10	9	7	5	7	8	7
L24E 200N	2	1	2	3	2	11	9	12	8	8	5	7	8	6
L24E 150N	2	2	2	3	3	12	9	11	8	8	4	7	8	7
L24E 100N	3	2	3	3	3	27	11	19	10	9	5	8	10	8
L24E 50N	2	2	2	3	2	14	10	15	8	7	4	7	8	7
L24E 0N	3	2	2	3	3	20	11	17	10	8	5	8	2	7
L24E 50S	2	2	2	3	2	14	10	15	8	7	5	6	2	6
L24E 50S-R	2	2	2	3	2	14	11	15	9	7	5	8	8	7
L24E 100S	2	2	2	3	3	17	10	15	9	9	5	7	8	7
L24E 150S	3	2	2	3	3	17	11	16	8	8	4	7	8	7
L24E 200S	3	2	2	3	3	17	12	17	10	8	5	8	9	7
L24E 250S	2	2	2	3	3	14	10	17	9	8	5	7	8	8
L26E 500N	14	3	3	4	7	24	12	22	30	17	10	13	23	11
L26E 450N	3	2	2	3	3	14	11	15	10	8	5	7	9	7
L26E 400N	2	2	2	3	3	13	11	15	9	7	4	7	1	7
L26E 350N	3	2	2	3	3	14	11	15	9	8	5	7	8	7
L26E 300N	2	2	2	3	3	17	11	15	10	8	5	7	1	7
L26E 250N	2	2	2	3	3	13	11	16	9	8	4	7	8	7

	127 - MPH	128 - MPH	129 - HAR	130 - HAR	131 - MPH	132 - ALK	133 - HAR	134 - HAR	135 - MPH	136 - MPH	137 - HBI	138 - HBI	139 - HPH	140 - HPH
L26E 200N	2	2	2	3	3	13	12	15	8	7	5	7	9	7
L26E 150N	2	2	2	3	3	15	11	17	10	8	5	7	8	7
L26E 100N	2	2	2	3	2	15	11	15	9	9	5	7	9	7
L26E 100N-R	3	2	2	3	3	14	10	14	9	8	5	7	8	7
L26E 50N	2	2	2	3	3	14	11	15	8	8	4	7	2	7
L26E 0N	2	2	2	3	3	13	11	15	8	7	5	7	8	7
L26E 50S	3	2	2	3	3	14	10	15	9	9	5	8	9	7
L26E 100S	3	2	2	3	3	13	11	16	10	7	5	7	9	7
L26E 150S	3	2	2	3	3	16	11	16	9	8	5	7	2	7
LMB-QA	2	1	2	2	2	10	9	11	8	6	4	6	8	6
LMB-QA	2	2	2	3	3	10	10	11	8	7	4	6	8	7
LMB-QA	2	2	2	3	3	13	8	11	9	7	4	7	8	7
LMB-QA	2	2	2	3	3	11	10	14	8	8	5	7	1	7

	141 - HBI	142 - HPH	143 - HA	144 - HBI	145 - HBA	146 - HPH	147 - HBI	148 - HPH	149 - HBI	150 - HPH	151 - HBI	152 - HPH	153 - HPH	154 - HPH
L0E 50N	9	8	33	9	30	13	6	6	9	7	7	2	4	3
L0E 0N	8	8	36	9	37	3	5	6	8	1	7	9	3	19
L0E 50S	9	8	33	9	48	13	6	7	9	2	7	10	3	18
L0E 100S	8	8	34	9	35	13	5	6	1	7	7	2	18	18
L0E 150S	9	1	42	9	36	2	6	6	1	1	7	9	18	19
L0E 150S-R	8	9	42	9	58	3	6	7	2	8	8	10	19	19
L0E 200S	9	8	38	10	55	1	6	7	9	9	7	10	18	18
L0E 250S	9	8	73	11	66	14	7	7	9	1	8	2	17	19
L0E 300S	8	1	33	9	38	2	6	7	9	1	7	10	17	18
L0E 350S	7	8	30	8	28	2	6	6	9	1	7	9	17	18
L0E 400S	8	7	35	8	28	3	5	6	8	1	7	1	18	18
L0E 450S	8	9	52	10	54	14	6	7	9	8	7	10	19	19
L0E 500S	11	9	81	12	78	15	7	7	2	8	8	10	20	19
L2E 150N	7	1	34	8	28	2	6	7	9	1	7	9	17	19
L2E 100N	8	8	34	9	33	1	6	6	8	8	7	2	17	18
L2E 50N	7	7	32	9	22	13	5	7	8	8	7	2	17	18
L2E 0N	8	8	32	9	24	1	5	7	9	1	7	2	18	3
L2E 50S	8	8	37	9	40	2	6	6	9	8	7	-1	18	17
L2E 100S	8	9	36	9	35	13	6	6	8	8	7	9	17	18
L2E 150S	7	9	32	9	27	3	5	6	8	7	7	10	19	19
L2E 200S	8	8	30	8	25	1	5	6	8	7	7	9	17	3
L2E 200S-R	8	8	27	8	33	12	5	6	8	1	7	9	4	17
L2E 250S	7	8	30	8	32	2	5	6	8	1	7	2	18	19
L2E 300S	8	8	38	9	27	12	5	6	8	1	7	9	17	19
L2E 350S	7	8	33	8	32	2	5	7	8	7	7	1	17	3
L2E 400S	7	8	27	8	26	3	6	6	8	8	7	10	18	4
L4E 200N	8	1	32	9	32	2	6	7	8	8	7	9	3	18
L4E 150N	9	8	35	9	55	3	6	6	9	8	7	2	18	17
L4E 100N	9	1	28	10	23	2	6	7	9	1	7	9	18	18
L4E 50N	8	8	29	9	41	2	6	7	8	8	7	9	18	19
L4E 0N	8	8	34	9	46	-1	6	7	9	1	7	10	19	19
L4E 50S	8	8	40	9	34	3	5	7	8	8	7	10	18	18
L4E 100S	9	7	44	9	46	3	6	6	9	1	7	10	17	19
L4E 150S	7	8	36	8	34	12	5	7	8	7	7	10	19	18
L4E 200S	7	8	40	9	36	1	6	7	2	8	7	10	18	18
L4E 250S	8	9	38	9	44	13	6	6	9	8	7	10	19	3
L4E 300S	9	9	35	10	34	1	6	7	8	8	7	5	21	19
L4E 300S-R	8	8	34	9	45	3	6	7	9	9	7	10	20	19
L6E 200N	9	14	60	11	39	14	7	10	10	11	8	12	22	23
L6E 150N	9	11	42	10	34	2	6	8	10	10	8	11	19	20
L6E 100N	8	8	36	10	49	2	6	7	2	2	7	10	3	2
L6E 50N	9	10	36	9	33	3	6	6	2	8	8	11	20	20
L6E 0N	8	10	41	10	34	2	6	7	1	9	8	10	19	19
L6E 50S	9	9	43	11	44	2	6	8	9	9	8	11	20	2
L8E 300N	7	7	31	9	27	13	6	7	9	8	7	10	3	19
L8E 250N	7	8	25	9	24	3	6	6	8	1	8	10	2	19
L8E 200N	8	9	29	9	20	2	6	7	9	8	8	2	19	19
L8E 150N	9	9	35	8	29	4	6	7	1	8	7	10	19	20
L8E 100N	9	9	32	10	34	-1	6	7	9	8	7	2	19	18
L8E 50N	8	8	33	9	35	3	5	6	9	8	7	10	18	19
L8E 0N	8	8	33	10	22	1	6	6	10	9	8	2	19	19
L8E 50S	8	8	33	10	39	3	6	6	2	8	7	10	18	3
L8E 100S	10	9	38	11	34	14	7	7	10	9	8	11	19	20
L8E 100S-R	10	10	36	10	32	1	6	7	9	8	8	11	20	19

	141 - HBI	142 - HPH	143 - HA	144 - HBI	145 - HBA	146 - HPH	147 - HBI	148 - HPH	149 - HBI	150 - HPH	151 - HBI	152 - HPH	153 - HPH	154 - HPH
L10E 350N	8	9	42	11	42	14	6	7	9	8	8	1	19	19
L10E 300N	9	9	36	9	39	3	6	7	9	8	8	2	19	19
L10E 250N	8	8	38	10	40	3	6	7	9	1	7	1	18	19
L10E 200N	8	-1	33	9	41	1	6	6	9	2	8	1	18	17
L10E 150N	9	8	36	10	50	2	6	7	1	2	8	10	19	19
L10E 100N	9	9	34	10	49	13	6	7	9	8	8	2	20	3
L10E 50N	8	8	34	10	27	13	6	6	9	1	7	10	18	18
L10E 0N	8	8	27	9	29	2	6	7	8	8	7	10	2	18
L10E 50S	8	8	29	9	27	13	6	6	9	8	7	10	18	19
L12E 350N	8	1	31	9	32	2	6	7	9	8	8	10	20	20
L12E 300N	7	8	29	9	28	3	6	6	1	8	7	2	18	3
L12E 250N	7	8	14	9	29	1	6	6	9	8	7	2	17	4
L12E 200N	8	7	30	9	28	3	6	7	1	8	7	2	18	19
L12E 150N	9	9	35	10	34	14	6	6	9	9	8	11	19	19
L12E 100N	7	8	34	9	31	2	6	6	8	8	8	1	18	2
L12E 100N-R	7	9	28	8	21	13	5	7	9	8	7	10	20	20
L12E 50N	7	8	32	9	32	3	6	7	9	8	7	1	18	3
L12E 0N	8	2	27	8	29	2	6	6	9	8	7	10	18	5
L12E 50S	8	8	29	9	37	14	6	7	9	9	7	10	18	19
L14E 350N	11	13	44	11	37	19	7	9	11	10	8	12	23	23
L14E 300N	8	9	32	10	31	1	6	7	10	8	7	1	18	19
L14E 250N	9	9	31	9	33	3	6	7	9	8	7	2	19	19
L14E 200N	8	9	34	9	24	2	6	7	9	8	7	10	18	3
L14E 150N	9	8	29	10	22	13	7	7	10	8	8	10	2	19
L14E 100N	8	9	39	11	41	2	6	7	9	9	8	10	18	19
L14E 50N	9	9	32	11	28	3	6	7	10	9	8	1	4	4
L14E 0N	9	8	35	10	36	3	6	7	9	1	7	10	18	18
L14E 50S	8	7	28	9	37	3	6	6	9	8	7	2	17	18
L16E 400N	12	2	42	13	36	3	8	8	2	10	8	12	23	22
L16E 350N	11	10	40	13	36	16	8	8	11	10	8	11	21	22
L16E 300N	9	9	41	10	38	2	6	7	10	1	8	10	3	3
L16E 300N-R	9	9	38	10	40	3	7	7	10	9	8	11	19	21
L16E 250N	8	9	30	9	19	14	6	7	10	8	8	10	19	19
L16E 200N	7	9	24	9	23	13	6	7	9	8	7	10	19	18
L16E 150N	8	9	36	10	38	1	7	7	9	8	8	10	20	20
L16E 100N	7	8	29	9	30	13	5	6	8	1	7	1	18	3
L16E 50N	9	8	39	10	42	4	7	7	10	2	8	2	20	3
L16E 0N	10	11	33	11	34	4	7	7	10	9	8	11	3	21
L16E 50S	18	2	115	19	118	3	10	10	15	11	9	14	26	26
L18E 450N	15	19	65	17	50	16	9	11	13	12	8	14	28	26
L18E 400N	11	11	36	2	40	18	8	8	10	1	8	11	20	22
L18E 350N	11	9	39	11	67	2	7	8	10	2	8	12	21	21
L18E 300N	9	9	33	10	37	2	6	7	9	8	7	5	20	20
L18E 250N	8	9	33	9	36	8	6	7	9	8	7	10	19	18
L18E 200N	9	8	30	9	42	13	6	6	9	1	7	10	2	19
L18E 150N	8	8	31	9	31	3	6	6	9	9	8	10	19	21
L18E 100N	8	8	25	9	26	2	6	6	9	8	7	2	19	3
L18E 100N-R	8	9	25	9	20	14	6	7	9	8	8	10	19	20
L18E 50N	8	8	33	9	30	2	6	7	9	2	8	11	20	20
L18E 0N	7	8	29	10	27	13	6	6	9	8	8	2	19	19
L18E 50S	8	8	28	9	26	13	6	7	1	9	7	10	3	20
L18E 100S	8	10	28	9	25	1	6	7	9	8	7	11	21	21
L20E 450N	11	11	36	12	27	16	7	8	10	9	8	11	21	21
L20E 400N	7	9	28	9	26	14	6	7	9	9	8	1	20	20

	141 - HBI	142 - HPH	143 - HA	144 - HBI	145 - HBA	146 - HPH	147 - HBI	148 - HPH	149 - HBI	150 - HPH	151 - HBI	152 - HPH	153 - HPH	154 - HPH
L20E 350N	9	11	43	11	41	2	7	7	10	9	8	11	22	21
L20E 300N	9	10	35	10	32	4	7	8	1	1	8	11	22	20
L20E 250N	7	2	39	10	36	2	6	7	1	1	8	2	19	20
L20E 200N	9	9	32	11	28	14	6	7	9	1	8	2	20	20
L20E 150N	8	10	30	10	32	15	6	7	10	9	7	11	3	20
L20E 100N	8	1	29	9	26	2	6	7	10	8	7	11	20	19
L20E 50N	8	8	32	10	20	2	6	6	9	8	7	11	19	19
L20E 0N	8	1	25	9	24	2	6	7	8	9	8	10	18	3
L20E 50S	10	9	47	11	48	15	7	7	2	9	8	11	19	19
L20E 50S-R	8	9	44	11	39	16	7	8	10	1	8	2	19	4
L20E 100S	7	8	30	8	30	1	6	6	2	8	8	10	2	20
L20E 150S	8	10	34	10	32	15	6	7	9	8	8	2	19	4
L22E 550N	12	16	67	14	39	23	9	10	2	11	9	15	30	27
L22E 500N	9	1	43	10	35	2	6	8	9	2	8	10	18	3
L22E 450N	7	9	27	8	19	1	6	6	1	8	7	1	3	4
L22E 400N	8	1	35	10	24	2	6	7	10	9	8	10	2	20
L22E 350N	8	9	28	9	24	14	6	7	8	2	8	2	18	19
L22E 300N	8	8	34	10	25	1	6	7	2	9	8	10	18	20
L22E 250N	7	8	31	9	23	1	6	7	9	9	8	2	18	3
L22E 200N	7	9	30	9	19	3	6	7	2	9	7	2	18	19
L22E 150N	7	1	27	9	25	2	6	7	1	8	8	10	3	3
L22E 100N	8	1	28	9	28	2	6	6	9	8	8	10	18	2
L22E 50N	7	8	26	9	19	13	6	7	1	8	7	1	17	19
L22E 0N	7	8	32	9	27	13	6	7	9	1	7	1	18	20
L22E 50S	7	8	26	10	23	2	6	6	1	1	7	2	18	18
L22E 50S-R	8	8	29	8	24	8	6	6	9	8	7	10	18	19
L22E 100S	7	8	24	9	21	3	6	6	1	9	7	10	19	19
L22E 150S	7	7	23	8	20	13	5	6	9	8	7	10	18	19
L22E 200S	7	8	26	9	21	13	6	6	8	1	7	10	17	3
L22E 250S	8	8	28	10	20	13	6	6	9	8	7	11	19	19
L24E 550N	9	9	36	10	32	2	6	7	9	8	8	11	20	19
L24E 500N	7	8	27	8	21	2	6	7	1	8	7	9	4	18
L24E 450N	8	9	29	9	26	1	6	6	9	8	8	10	18	3
L24E 400N	7	8	27	9	23	13	5	7	8	8	7	10	18	20
L24E 350N	7	8	23	9	18	3	6	6	9	8	7	9	18	18
L24E 300N	8	1	29	9	30	2	6	6	9	8	7	1	18	3
L24E 250N	8	8	27	9	23	1	6	6	9	8	7	10	19	3
L24E 200N	8	8	26	9	27	3	6	6	2	8	7	2	17	19
L24E 150N	8	1	31	9	25	2	6	6	1	1	8	10	3	19
L24E 100N	10	11	59	11	46	16	6	7	2	1	8	12	23	21
L24E 50N	7	-1	34	9	24	1	6	7	8	7	7	10	19	20
L24E 0N	9	8	46	10	36	14	6	7	9	9	8	10	19	19
L24E 50S	7	8	3	1	23	13	6	7	9	9	8	10	18	2
L24E 50S-R	7	8	35	9	26	2	5	7	9	9	8	10	19	20
L24E 100S	8	9	37	9	29	14	6	7	9	8	7	10	19	20
L24E 150S	9	9	44	10	32	14	6	7	9	8	7	10	19	2
L24E 200S	8	8	41	9	30	3	6	8	9	9	8	11	20	4
L24E 250S	8	9	33	9	25	14	6	7	9	1	8	11	21	19
L26E 500N	22	30	81	23	44	43	14	10	16	5	10	24	19	39
L26E 450N	8	10	31	10	25	16	7	8	9	9	8	11	21	21
L26E 400N	7	8	31	9	25	14	6	7	8	2	8	2	20	3
L26E 350N	8	9	31	10	20	15	6	7	9	9	8	2	19	4
L26E 300N	8	9	33	9	30	14	6	7	9	9	8	1	21	19
L26E 250N	8	9	32	9	24	1	6	7	9	8	7	10	19	21

-1=Reporting Limit of 1pg/g (ppt=parts per trillion)

	141 - HBI	142 - HPH	143 - HA	144 - HBI	145 - HBA	146 - HPH	147 - HBI	148 - HPH	149 - HBI	150 - HPH	151 - HBI	152 - HPH	153 - HPH	154 - HPH
L26E 200N	8	1	32	9	22	2	6	7	9	-1	7	1	19	21
L26E 150N	8	8	36	10	28	3	6	7	10	2	8	11	3	20
L26E 100N	8	8	28	9	26	2	6	7	1	9	8	11	20	21
L26E 100N-R	7	8	28	9	24	13	6	7	9	8	8	10	18	19
L26E 50N	8	9	35	9	27	13	6	7	9	9	8	1	19	20
L26E 0N	7	9	27	9	20	14	6	7	9	9	8	10	18	3
L26E 50S	9	11	37	11	24	17	6	7	1	9	8	11	21	20
L26E 100S	8	9	3	9	23	15	6	7	9	9	8	11	20	21
L26E 150S	9	10	32	10	30	16	6	8	9	9	7	11	21	21
LMB-QA	7	8	28	8	18	3	5	7	8	8	7	9	18	19
LMB-QA	8	2	26	9	23	2	6	7	9	1	7	10	20	19
LMB-QA	8	8	30	10	53	3	6	7	1	8	7	10	18	18
LMB-QA	7	1	27	9	18	2	6	7	9	9	7	10	18	20

	155 - HPH	156 - HBI	157 - HAR	158 - HBA	159 - HBA	160 - HBI	161 - HA	162 - HPH
L0E 50N	3	15	15	45	18	20	12	4
L0E 0N	19	16	16	46	20	19	63	20
L0E 50S	20	-1	16	45	17	20	64	20
L0E 100S	18	15	15	44	18	20	62	3
L0E 150S	19	15	16	44	3	4	66	20
L0E 150S-R	18	17	16	49	19	20	66	20
L0E 200S	18	15	16	47	19	20	59	21
L0E 250S	19	16	17	62	3	21	83	20
L0E 300S	19	16	16	45	19	4	57	22
L0E 350S	19	15	16	43	19	20	61	20
L0E 400S	18	16	15	44	2	21	58	20
L0E 450S	19	15	16	54	19	3	74	21
L0E 500S	20	16	17	70	20	4	101	20
L2E 150N	19	16	17	45	4	2	53	20
L2E 100N	19	15	16	46	3	21	31	20
L2E 50N	19	15	16	44	19	3	50	5
L2E 0N	18	15	15	43	3	18	50	20
L2E 50S	19	15	15	6	19	20	58	5
L2E 100S	19	16	16	46	3	19	56	21
L2E 150S	18	15	17	43	20	18	13	21
L2E 200S	17	15	15	41	19	20	55	3
L2E 200S-R	18	16	15	41	18	18	60	20
L2E 250S	18	-1	16	41	19	20	63	20
L2E 300S	18	15	16	43	4	19	47	3
L2E 350S	17	15	15	42	19	20	56	20
L2E 400S	19	15	16	44	18	19	39	21
L4E 200N	19	16	16	42	20	21	59	3
L4E 150N	18	16	14	42	20	20	54	19
L4E 100N	19	16	17	43	20	19	56	20
L4E 50N	19	15	17	43	18	19	13	21
L4E 0N	18	15	16	45	19	19	59	3
L4E 50S	19	16	16	45	3	20	60	3
L4E 100S	17	14	16	43	3	21	57	19
L4E 150S	19	15	15	39	3	20	54	19
L4E 200S	19	16	16	43	19	21	53	20
L4E 250S	19	16	16	44	19	21	56	20
L4E 300S	18	16	17	41	21	20	55	21
L4E 300S-R	4	15	15	40	18	20	55	20
L6E 200N	20	16	17	53	21	24	68	24
L6E 150N	19	16	17	45	21	22	63	4
L6E 100N	19	16	16	49	21	22	59	3
L6E 50N	20	16	18	44	20	21	57	21
L6E 0N	20	17	16	44	21	23	60	21
L6E 50S	21	17	17	50	3	22	58	21
L8E 300N	19	16	16	43	3	4	54	4
L8E 250N	20	15	17	44	2	4	11	20
L8E 200N	19	15	16	44	21	21	56	19
L8E 150N	21	15	16	45	4	4	51	21
L8E 100N	18	16	17	44	3	21	16	2
L8E 50N	19	16	16	44	21	21	58	22
L8E 0N	20	18	19	46	22	22	58	22
L8E 50S	20	17	17	47	21	22	56	21
L8E 100S	20	17	17	49	22	4	63	22
L8E 100S-R	21	17	17	48	21	20	60	22

	155 - HPH	156 - HBI	157 - HAR	158 - HBA	159 - HBA	160 - HBI	161 - HA	162 - HPH
L10E 350N	19	16	18	46	22	3	57	4
L10E 300N	21	16	16	44	20	21	60	20
L10E 250N	20	16	16	45	3	20	60	21
L10E 200N	18	17	16	45	3	21	57	22
L10E 150N	19	16	18	42	21	21	55	21
L10E 100N	20	17	18	52	3	20	64	22
L10E 50N	19	16	17	46	3	21	56	20
L10E 0N	18	16	16	46	20	20	56	20
L10E 50S	20	17	17	40	21	4	49	4
L12E 350N	19	16	17	42	4	21	56	22
L12E 300N	19	16	17	43	20	21	58	4
L12E 250N	20	16	17	43	21	21	55	4
L12E 200N	19	16	17	-1	21	22	17	22
L12E 150N	19	15	17	41	22	3	63	21
L12E 100N	20	16	17	41	20	21	37	21
L12E 100N-R	19	16	16	47	20	2	63	3
L12E 50N	19	16	17	41	4	22	1	20
L12E 0N	21	16	17	45	20	21	55	3
L12E 50S	19	16	17	45	21	20	53	21
L14E 350N	21	17	19	21	22	22	63	24
L14E 300N	20	17	18	44	5	21	59	3
L14E 250N	20	18	18	25	20	21	37	5
L14E 200N	18	17	17	43	20	21	62	3
L14E 150N	21	16	16	49	20	22	62	3
L14E 100N	20	17	19	45	22	22	61	2
L14E 50N	20	17	18	43	21	22	58	22
L14E 0N	20	16	17	43	21	21	57	20
L14E 50S	20	16	17	38	3	20	55	21
L16E 400N	21	18	20	2	21	22	66	24
L16E 350N	22	16	18	52	22	22	65	23
L16E 300N	20	16	18	49	21	23	63	21
L16E 300N-R	4	17	18	47	21	22	62	22
L16E 250N	23	17	18	45	21	21	56	22
L16E 200N	19	17	18	40	3	22	52	4
L16E 150N	21	16	17	47	21	3	10	22
L16E 100N	19	17	15	37	21	21	54	20
L16E 50N	19	17	18	49	3	22	64	22
L16E 0N	21	17	16	44	21	22	54	3
L16E 50S	23	19	20	81	24	25	112	2
L18E 450N	25	18	20	57	24	27	84	24
L18E 400N	20	17	18	49	4	25	62	24
L18E 350N	21	17	18	53	4	23	64	4
L18E 300N	19	16	16	51	20	3	64	2
L18E 250N	19	16	17	46	20	20	11	21
L18E 200N	19	16	17	33	21	20	52	20
L18E 150N	20	16	16	47	20	22	59	22
L18E 100N	21	17	16	45	3	22	50	22
L18E 100N-R	20	17	18	18	20	21	51	23
L18E 50N	21	17	18	48	21	22	65	23
L18E 0N	19	16	17	3	21	20	55	22
L18E 50S	20	17	18	43	22	21	56	21
L18E 100S	21	16	17	47	21	21	61	23
L20E 450N	21	16	16	48	22	24	61	22
L20E 400N	22	17	18	45	21	21	61	22

	155 - HPH	156 - HBI	157 - HAR	158 - HBA	159 - HBA	160 - HBI	161 - HA	162 - HPH
L20E 350N	21	18	19	52	22	23	68	22
L20E 300N	20	18	18	52	21	21	69	23
L20E 250N	20	17	18	52	21	22	62	3
L20E 200N	19	17	18	24	3	4	55	22
L20E 150N	20	18	16	2	20	22	65	4
L20E 100N	21	18	17	48	3	21	61	22
L20E 50N	20	16	17	45	21	4	11	23
L20E 0N	20	19	17	46	19	21	55	22
L20E 50S	20	17	18	54	3	22	72	23
L20E 50S-R	19	17	18	48	21	22	66	23
L20E 100S	20	16	16	44	21	3	57	3
L20E 150S	21	16	17	48	3	22	58	22
L22E 550N	24	18	19	57	4	26	82	25
L22E 500N	21	-1	17	47	20	20	69	23
L22E 450N	19	16	16	43	20	21	53	3
L22E 400N	21	17	18	19	21	22	55	3
L22E 350N	22	17	17	41	21	22	50	20
L22E 300N	19	16	16	1	20	21	59	22
L22E 250N	20	17	17	45	21	22	50	21
L22E 200N	21	17	18	44	20	20	53	21
L22E 150N	19	17	17	44	20	4	21	22
L22E 100N	20	17	17	47	20	22	56	22
L22E 50N	19	16	17	37	20	20	50	21
L22E 0N	18	16	17	46	21	21	57	3
L22E 50S	19	17	17	43	2	3	52	3
L22E 50S-R	20	15	16	44	21	21	59	22
L22E 100S	20	16	17	45	20	22	54	3
L22E 150S	20	16	17	45	21	22	57	20
L22E 200S	20	16	16	43	21	4	51	20
L22E 250S	18	16	17	44	4	22	34	21
L24E 550N	20	16	18	47	4	20	62	21
L24E 500N	20	16	16	39	19	20	31	4
L24E 450N	19	15	16	41	20	20	62	3
L24E 400N	19	16	16	43	18	20	56	20
L24E 350N	19	17	16	44	3	20	47	21
L24E 300N	18	16	17	42	3	3	49	3
L24E 250N	19	16	15	39	3	19	55	4
L24E 200N	18	17	17	45	4	20	53	22
L24E 150N	19	17	16	42	19	21	58	4
L24E 100N	21	19	19	72	23	22	96	21
L24E 50N	20	17	17	57	4	21	73	22
L24E 0N	20	18	18	64	4	4	85	3
L24E 50S	19	17	18	55	22	3	68	22
L24E 50S-R	20	17	17	56	21	22	70	22
L24E 100S	19	18	18	59	21	22	72	5
L24E 150S	20	18	18	61	22	22	48	23
L24E 200S	22	18	18	60	3	5	76	23
L24E 250S	20	18	19	53	22	24	70	22
L26E 500N	32	22	26	77	28	6	107	39
L26E 450N	21	18	17	53	22	3	63	23
L26E 400N	20	17	17	53	23	24	64	22
L26E 350N	19	18	19	47	3	23	63	23
L26E 300N	21	17	17	56	21	21	77	23
L26E 250N	20	18	17	52	3	21	67	4

	155 - HPH	156 - HBI	157 - HAR	158 - HBA	159 - HBA	160 - HBI	161 - HA	162 - HPH
L26E 200N	20	16	18	53	3	23	59	22
L26E 150N	21	17	17	54	4	21	59	23
L26E 100N	21	18	19	49	22	23	66	21
L26E 100N-R	21	16	17	50	22	22	58	3
L26E 50N	20	18	17	54	3	3	62	23
L26E 0N	20	18	18	48	3	21	62	4
L26E 50S	22	18	17	54	21	24	40	22
L26E 100S	21	17	17	52	20	4	15	23
L26E 150S	21	18	18	55	3	22	73	22
LMB-QA	19	15	16	42	19	3	53	21
LMB-QA	20	16	18	42	3	22	55	21
LMB-QA	20	16	18	45	22	21	59	5
LMB-QA	19	18	17	48	22	22	60	4

Date Submitted: October 29, 2009

Invoice #: **A09-6505REV**

Invoice Date: November 13, 2009

Golden Chalice Resources

P.O Box 1124
Timmins ON
P4N 7J3

Attention: Kevin Montgomery

RE: Your Reference: Penhorwood Property – Timmins West Project

CERTIFICATE OF ANALYSIS

160 Soil samples were submitted for analysis.

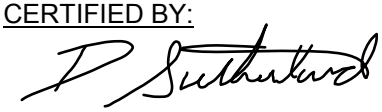
The following analytical package was requested: Code SGH – Soil Gas Hydrocarbon Geochemistry

REPORT/WORKORDER: A09-6505

Notes:

The SGH – Soil Gas Hydrocarbon Geochemistry is a semi-quantitative analytical procedure to detect and measure 162 hydrocarbon compounds as the organic signature in the sample material collected from a survey area. It is not an assay of mineralization but is a predictive geochemical tool used for exploration. This certificate pertains only to the SGH data presented in a Microsoft Excel spreadsheet of results.

CERTIFIED BY:



Dale Sutherland, B.Sc.,B.Sc.,C.Chem.
Forensic Scientist, Organics Manager,
Director of Research
Activation Laboratories Ltd.

Quality Analysis ... *Innovative Technologies*

Date Submitted: 04-Nov-09
Invoice No.: A09-6505 (i)
Invoice Date: 16-Nov-09
Your Reference: PENHORWOOD PROPERTY-TI

Golden Chalice Resources
P.O. Box 1124
Timmins ON P4N 7J3
Canada

ATTN: Kevin Montgomery

CERTIFICATE OF ANALYSIS

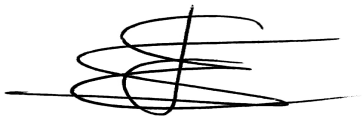
320 Soil samples were submitted for analysis.

The following analytical packages were requested: Code 1H INAA(INAAGEO)/Total Digestion ICP(TOTAL)
Code SGH Soil Gas Hydrocarbons

REPORT **A09-6505 (i)**

Notes:
Elements which exceed the upper limits should be analyzed by assay techniques. Some elements are reported by multiple techniques. These are indicated by MULT.

CERTIFIED BY :



Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL ancaster@actlabsint.com ACTLABS GROUP WEBSITE http://www.actlabsint.com

Analyte Symbol	Au	Ag	Ni	Zn	As	Ba	Br	Co	Cr	Cs	Eu	Fe	Hf	Hg	Ir	Na	Rb	Sb	Sc	Se	Ta	Th	U	W
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	0.3	1	1	0.5	50	0.5	1	2	1	0.2	0.01	1	1	5	0.01	15	0.1	0.1	3	0.5	0.2	0.5	1
Analysis Method	INAA	MULT INAA / TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
GEO L0E 50N	< 2	< 0.3	30	26	< 0.5	520	4.1	8	62	< 1	0.7	1.87	6	< 1	< 5	1.79	< 15	< 0.1	6.6	< 3	< 0.5	3.4	< 0.5	< 1
GEO L0E 0N	< 2	< 0.3	28	25	1.6	440	4.8	6	57	2	0.5	1.69	7	< 1	< 5	1.86	< 15	< 0.1	6.2	< 3	2.2	3.5	< 0.5	< 1
GEO L0E 50S	< 2	< 0.3	19	21	< 0.5	540	4.1	5	51	< 1	0.7	1.43	6	< 1	< 5	1.88	< 15	0.2	5.7	< 3	< 0.5	2.8	0.8	< 1
GEO L0E 100S	< 2	< 0.3	18	23	1.3	420	5.6	4	42	2	0.4	1.56	6	< 1	< 5	1.62	< 15	< 0.1	5.3	< 3	1.6	2.7	< 0.5	< 1
GEO L0E 150S	< 2	< 0.3	18	19	1.6	470	2.0	5	49	< 1	0.6	1.34	6	< 1	< 5	1.80	< 15	< 0.1	5.4	< 3	< 0.5	3.2	1.2	< 1
GEO L0E 200S	4	< 0.3	71	25	2.6	480	4.7	10	81	2	0.7	2.00	6	< 1	< 5	1.85	57	< 0.1	6.7	< 3	< 0.5	3.3	1.0	< 1
GEO L0E 250S	< 2	< 0.3	17	17	< 0.5	330	2.9	4	38	< 1	0.5	1.07	6	< 1	< 5	1.77	48	< 0.1	5.1	< 3	< 0.5	3.3	2.0	< 1
GEO L0E 300S	< 2	< 0.3	17	25	2.3	420	6.9	6	52	2	0.7	1.27	4	< 1	< 5	1.82	< 15	< 0.1	6.6	< 3	< 0.5	2.4	< 0.5	< 1
GEO L0E 350S	< 2	< 0.3	26	45	4.6	460	8.9	6	48	3	0.7	2.02	2	< 1	< 5	1.99	58	< 0.1	7.8	< 3	< 0.5	2.8	< 0.5	< 1
GEO L0E 400S	< 2	0.4	25	36	3.0	520	4.7	8	67	11	0.8	1.75	5	< 1	< 5	1.64	87	< 0.1	7.3	< 3	< 0.5	5.1	< 0.5	< 1
GEO L0E 450S	< 2	< 0.3	28	36	10.7	600	1.6	9	71	7	0.9	2.41	4	< 1	< 5	1.80	62	< 0.1	8.0	< 3	< 0.5	5.6	< 0.5	< 1
GEO L0E 500S	< 2	0.3	25	34	< 0.5	390	2.7	6	73	6	0.8	2.16	4	< 1	< 5	1.75	79	< 0.1	7.6	< 3	< 0.5	5.6	2.1	< 1
GEO L2E 150N	< 2	< 0.3	17	20	< 0.5	530	5.5	4	48	5	0.5	1.47	3	< 1	< 5	1.86	< 15	< 0.1	5.0	< 3	< 0.5	2.4	< 0.5	< 1
GEO L2E 100N	< 2	< 0.3	16	23	2.9	550	2.5	4	48	5	0.5	1.36	6	< 1	< 5	1.83	69	< 0.1	5.6	< 3	< 0.5	3.2	1.1	< 1
GEO L2E 50N	< 2	< 0.3	24	27	4.0	470	4.0	5	61	4	0.7	1.79	5	< 1	< 5	1.86	73	0.2	6.4	< 3	< 0.5	3.6	1.7	< 1
GEO L2E 0N	< 2	< 0.3	20	21	< 0.5	500	4.5	7	52	3	0.6	1.64	3	< 1	< 5	1.91	58	< 0.1	5.8	< 3	< 0.5	2.9	0.8	< 1
GEO L2E 50S	< 2	< 0.3	22	18	3.8	540	4.2	4	52	4	0.6	1.39	7	< 1	< 5	1.86	< 15	< 0.1	5.1	< 3	< 0.5	3.7	1.6	< 1
GEO L2E 100S	5	< 0.3	40	20	3.7	450	5.1	6	62	3	0.5	1.98	6	< 1	< 5	1.65	72	0.3	5.0	< 3	< 0.5	3.0	< 0.5	< 1
GEO L2E 150S	< 2	< 0.3	60	28	3.3	390	3.4	7	139	3	0.6	2.20	6	< 1	< 5	1.63	< 15	< 0.1	6.8	< 3	< 0.5	3.2	< 0.5	< 1
GEO L2E 200S	< 2	< 0.3	20	22	2.0	430	3.9	6	59	3	0.6	1.79	6	< 1	< 5	1.83	55	< 0.1	6.0	< 3	< 0.5	2.9	< 0.5	< 1
GEO L2E 250S	9	< 0.3	21	20	2.0	510	7.5	7	61	3	0.6	1.71	6	< 1	< 5	1.85	74	< 0.1	6.0	< 3	< 0.5	3.4	1.3	< 1
GEO L2E 300S	10	< 0.3	12	16	2.6	470	1.5	4	53	4	0.5	1.25	8	< 1	< 5	1.76	63	0.2	5.1	< 3	< 0.5	3.4	0.9	< 1
GEO L2E 350S	< 2	0.3	23	27	3.6	500	3.7	7	72	3	0.7	2.01	7	< 1	< 5	1.79	70	0.3	6.6	< 3	< 0.5	3.7	< 0.5	< 1
GEO L2E 400S	< 2	< 0.3	26	41	2.2	520	< 0.5	8	85	3	0.6	2.21	6	< 1	< 5	1.91	63	0.3	8.8	< 3	< 0.5	4.6	< 0.5	< 1
GEO L4E 200N	< 2	< 0.3	19	23	1.6	380	4.2	5	67	3	0.6	1.74	5	< 1	< 5	1.87	< 15	< 0.1	6.3	< 3	< 0.5	3.9	1.4	< 1
GEO L4E 150N	< 2	< 0.3	15	27	2.5	470	3.0	3	42	3	0.6	1.06	3	< 1	< 5	1.97	41	0.2	5.2	< 3	< 0.5	2.0	< 0.5	< 1
GEO L4E 100N	< 2	< 0.3	20	27	< 0.5	470	2.2	5	54	3	0.6	1.29	4	< 1	< 5	2.08	< 15	< 0.1	6.2	< 3	< 0.5	2.9	< 0.5	< 1
GEO L4E 50N	< 2	< 0.3	31	28	< 0.5	400	2.3	9	72	3	0.5	1.80	3	< 1	< 5	1.94	< 15	< 0.1	7.4	< 3	< 0.5	2.3	< 0.5	< 1
GEO L4E 0N	27	< 0.3	20	19	2.0	440	3.7	6	58	2	0.4	1.67	4	< 1	< 5	1.69	43	< 0.1	5.5	< 3	< 0.5	2.5	0.9	< 1
GEO L4E 50S	< 2	< 0.3	20	43	3.5	550	2.4	7	69	3	0.6	2.01	5	< 1	< 5	1.93	40	< 0.1	7.7	< 3	< 0.5	3.7	< 0.5	< 1
GEO L4E 100S	< 2	0.3	17	32	3.2	600	2.4	5	64	4	0.6	2.00	6	< 1	< 5	1.87	88	< 0.1	6.9	< 3	< 0.5	3.9	< 0.5	< 1
GEO L4E 150S	< 2	< 0.3	24	34	< 0.5	520	3.8	7	81	3	< 0.2	2.32	5	< 1	< 5	2.14	< 15	0.3	8.1	< 3	< 0.5	2.6	1.3	< 1
GEO L4E 200S	9	< 0.3	53	51	5.9	490	3.5	14	127	3	0.5	4.21	4	< 1	< 5	1.87	64	< 0.1	10.5	< 3	< 0.5	3.2	0.9	< 1
GEO L4E 250S	< 2	< 0.3	23	31	2.2	560	2.5	8	77	4	0.6	2.78	7	< 1	< 5	1.91	< 15	< 0.1	8.4	< 3	1.4	3.6	< 0.5	< 1
GEO L4E 300S	6	< 0.3	35	34	2.2	540	3.9	12	77	3	0.7	2.40	7	< 1	< 5	1.97	43	< 0.1	8.2	< 3	< 0.5	4.1	< 0.5	< 1
GEO L6E 200N	< 2	< 0.3	39	31	3.9	470	< 0.5	5	161	3	0.5	3.18	7	< 1	< 5	1.61	41	< 0.1	6.2	< 3	< 0.5	3.7	< 0.5	< 1
GEO L6E 150N	< 2	< 0.3	16	23	< 0.5	400	3.3	3	50	3	0.6	1.21	4	< 1	< 5	1.99	53	< 0.1	5.6	< 3	< 0.5	2.4	< 0.5	< 1
GEO L6E 100N	9	< 0.3	27	30	1.8	500	3.1	9	73	3	0.5	2.18	6	< 1	< 5	1.83	< 15	< 0.1	7.2	< 3	< 0.5	4.2	< 0.5	< 1
GEO L6E 50N	< 2	< 0.3	20	23	2.4	450	5.6	6	61	3	0.7	2.02	6	< 1	< 5	1.81	47	< 0.1	6.2	< 3	1.8	3.7	< 0.5	< 1
GEO L6E 0N	3	0.4	12	24	< 0.5	470	< 0.5	3	55	3	0.5	1.54	7	< 1	< 5	1.60	66	< 0.1	5.5	< 3	< 0.5	3.2	1.6	< 1
GEO L6E 50S	6	< 0.3	34	49	3.5	460	3.7	10	90	4	0.5	2.92	6	< 1	< 5	1.76	52	< 0.1	8.6	< 3	< 0.5	3.9	1.3	< 1
GEO L8E 300N	< 2	< 0.3	16	22	< 0.5	460	2.4	5	55	2	0.6	1.17	4	< 1	< 5	2.12	43	< 0.1	6.1	< 3	< 0.5	2.9	< 0.5	< 1
GEO L8E 250N	< 2	< 0.3	19	29	3.0	410	< 0.5	6	58	3	0.8	1.55	5	< 1	< 5	2.08	44	0.3	6.9	< 3	< 0.5	3.3	2.0	< 1
GEO L8E 200N	< 2	< 0.3	22	21	1.8	430	1.8	6	50	3	0.7	1.29	5	< 1	< 5	2.07	45	< 0.1	5.7	< 3	< 0.5	2.8	< 0.5	< 1
GEO L8E 150N	< 2	< 0.3	73	44	< 0.5	580	6.5	10	124	4	0.5	2.01	8	< 1	< 5	1.84	84	< 0.1	6.9	< 3	< 0.5	3.6	1.4	< 1
GEO L8E 100N	4	< 0.3	47	29	2.8	560	2.4	6	167	4	0.6	1.52	10	< 1	< 5	1.58	71	< 0.1	7.3	< 3	< 0.5	4.3	1.4	2
GEO L8E 50N	< 2	< 0.3	13	22	< 0.5	570	3.0	4	47	5	0.4	1.43	8	< 1	< 5	1.82	96	< 0.1	5.9	< 3	< 0.5	4.1	1.0	< 1
GEO L8E 0N	< 2	< 0.3	22	27	< 0.5	570	3.5	6	49	4	0.7	1.58	6	< 1	< 5	1.91	84	< 0.1	6.9	< 3	< 0.5	4.3	1.4	< 1
GEO L8E 50S	3	0.4	15	21	< 0.5	460	5.5	5	49	< 1	0.5	1.53	9	< 1	< 5	1.82	79	< 0.1	6.0	< 3	< 0.5	3.9	< 0.5	< 1
GEO L8E 100S	< 2	0.4	19	21	< 0.5	410	4.7	6	50	< 1	0.6	1.38	8	< 1	< 5	2.09	81	< 0.1	6.8	< 3	< 0.5	4.1	1.4	< 1
GEO L10E 350N	< 2	< 0.3	14	16	< 0.5	460	1.8	5	42	1	0.5	1.29	5	< 1	< 5	2.00	41	< 0.1	5.7	< 3	< 0.5	3.0	< 0.5	< 1

Analyte Symbol	Au	Ag	Ni	Zn	As	Ba	Br	Co	Cr	Cs	Eu	Fe	Hf	Hg	Ir	Na	Rb	Sb	Sc	Se	Ta	Th	U	W
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	0.3	1	1	0.5	50	0.5	1	2	1	0.2	0.01	1	1	5	0.01	15	0.1	0.1	3	0.5	0.2	0.5	1
Analysis Method	INAA	MULT INAA / TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
GEO L10E 300N	< 2	< 0.3	16	17	< 0.5	570	2.3	5	40	2	0.5	1.21	5	< 1	< 5	1.96	101	< 0.1	4.9	< 3	< 0.5	2.6	< 0.5	< 1
GEO L10E 250N	3	< 0.3	13	17	< 0.5	510	2.3	4	33	2	0.4	0.97	4	< 1	< 5	2.06	85	< 0.1	4.8	< 3	< 0.5	2.0	< 0.5	< 1
GEO L10E 200N	< 2	< 0.3	10	15	2.0	590	2.6	3	34	< 1	0.4	1.15	6	< 1	< 5	1.90	52	< 0.1	4.9	< 3	< 0.5	2.6	< 0.5	< 1
GEO L10E 150N	< 2	< 0.3	19	20	< 0.5	430	2.8	5	50	2	0.5	1.37	5	< 1	< 5	2.01	79	< 0.1	5.8	< 3	< 0.5	3.2	< 0.5	< 1
GEO L10E 100N	< 2	< 0.3	28	24	9.1	430	< 0.5	6	78	3	0.6	1.83	6	< 1	< 5	1.75	44	< 0.1	6.1	< 3	< 0.5	3.2	< 0.5	< 1
GEO L10E 50N	< 2	< 0.3	28	22	5.1	380	2.8	7	53	2	0.6	1.93	5	< 1	< 5	1.80	55	< 0.1	5.8	< 3	< 0.5	2.9	< 0.5	< 1
GEO L10E 0N	25	< 0.3	31	24	6.3	400	2.5	6	53	3	0.7	1.49	5	< 1	< 5	1.83	< 15	< 0.1	5.7	< 3	0.7	2.7	< 0.5	< 1
GEO L10E 50S	< 2	< 0.3	25	23	7.0	500	3.2	6	46	2	0.5	1.27	4	< 1	< 5	1.78	< 15	0.2	5.3	< 3	< 0.5	2.5	< 0.5	< 1
GEO L12E 350N	< 2	< 0.3	10	17	6.0	470	2.9	3	36	< 1	0.5	1.07	5	< 1	< 5	1.62	57	< 0.1	4.2	< 3	< 0.5	2.8	< 0.5	< 1
GEO L12E 300N	< 2	< 0.3	7	12	6.1	470	2.5	3	30	< 1	0.4	0.93	6	< 1	< 5	1.75	< 15	< 0.1	4.0	< 3	< 0.5	3.1	< 0.5	< 1
GEO L12E 250N	< 2	< 0.3	13	16	4.9	330	< 0.5	4	41	< 1	0.3	1.31	4	< 1	< 5	1.66	< 15	< 0.1	4.6	< 3	< 0.5	2.8	< 0.5	< 1
GEO L12E 200N	< 2	< 0.3	17	16	6.2	340	< 0.5	4	38	< 1	0.5	1.35	5	< 1	< 5	1.64	< 15	< 0.1	4.7	< 3	< 0.5	2.9	< 0.5	< 1
GEO L12E 150N	7	< 0.3	21	26	5.2	460	2.6	7	52	< 1	0.6	1.84	6	< 1	< 5	1.71	< 15	< 0.1	6.0	< 3	< 0.5	3.5	< 0.5	< 1
GEO L12E 100N	< 2	< 0.3	11	12	6.5	500	2.6	2	41	< 1	0.3	0.74	5	< 1	< 5	1.90	< 15	< 0.1	4.3	< 3	< 0.5	2.6	< 0.5	< 1
GEO L12E 50N	< 2	< 0.3	19	18	5.2	390	< 0.5	4	46	< 1	0.6	1.40	4	< 1	< 5	1.86	< 15	< 0.1	5.5	< 3	< 0.5	3.0	< 0.5	< 1
GEO L12E 0N	< 2	< 0.3	10	12	4.5	540	2.5	3	45	< 1	0.5	0.86	6	< 1	< 5	2.02	41	< 0.1	5.0	< 3	< 0.5	3.3	1.7	< 1
GEO L12E 50S	< 2	< 0.3	17	18	4.5	460	3.7	6	51	< 1	0.6	1.41	4	< 1	< 5	2.02	< 15	< 0.1	5.7	< 3	< 0.5	2.8	< 0.5	< 1
GEO L14E 350N	< 2	< 0.3	16	18	4.4	440	< 0.5	3	57	< 1	0.6	1.34	7	< 1	< 5	1.78	57	< 0.1	5.6	< 3	< 0.5	4.3	1.1	< 1
GEO L14E 300N	< 2	< 0.3	21	23	3.2	440	< 0.5	5	69	< 1	0.5	1.74	5	< 1	< 5	1.71	62	< 0.1	6.4	< 3	< 0.5	3.7	< 0.5	< 1
GEO L14E 250N	< 2	< 0.3	24	22	4.6	520	3.2	6	56	< 1	0.5	2.01	4	< 1	< 5	1.91	< 15	< 0.1	6.2	< 3	< 0.5	3.6	< 0.5	< 1
GEO L14E 200N	< 2	< 0.3	16	18	4.2	440	3.6	5	44	< 1	0.4	1.29	4	< 1	< 5	1.95	44	< 0.1	5.3	< 3	< 0.5	2.7	1.1	< 1
GEO L14E 150N	< 2	< 0.3	23	21	4.3	420	1.8	5	47	< 1	0.5	1.37	4	< 1	< 5	1.84	40	< 0.1	5.6	< 3	< 0.5	2.9	< 0.5	< 1
GEO L14E 100N	< 2	< 0.3	21	24	3.0	530	2.3	6	59	2	0.5	1.71	4	< 1	< 5	1.88	60	< 0.1	6.2	< 3	< 0.5	3.0	< 0.5	< 1
GEO L14E 50N	< 2	< 0.3	26	25	4.2	310	1.5	7	58	< 1	0.4	1.75	3	< 1	< 5	1.98	< 15	< 0.1	6.1	< 3	< 0.5	2.4	< 0.5	< 1
GEO L14E 0N	< 2	< 0.3	33	34	5.9	360	3.5	10	88	< 1	0.6	2.61	4	< 1	< 5	2.02	51	< 0.1	8.1	< 3	< 0.5	2.9	1.2	< 1
GEO L14E 50S	< 2	< 0.3	26	32	5.5	430	6.1	7	88	< 1	1.1	1.71	3	< 1	< 5	1.78	53	0.3	9.4	< 3	< 0.5	5.9	< 0.5	< 1
GEO L16E 400N	< 2	< 0.3	23	22	4.9	500	< 0.5	8	64	2	0.6	1.68	4	< 1	< 5	2.07	36	< 0.1	6.8	< 3	< 0.5	3.9	< 0.5	< 1
GEO L16E 350N	< 2	< 0.3	21	23	3.1	370	2.9	7	61	< 1	0.6	1.71	5	< 1	< 5	1.95	65	< 0.1	6.7	< 3	< 0.5	3.7	< 0.5	< 1
GEO L16E 300N	< 2	< 0.3	17	19	3.7	320	< 0.5	4	55	< 1	0.5	1.45	4	< 1	< 5	2.06	< 15	0.2	5.9	< 3	< 0.5	3.6	< 0.5	< 1
GEO L16E 250N	< 2	< 0.3	16	22	4.8	370	< 0.5	5	39	< 1	0.7	1.05	4	< 1	< 5	2.00	55	< 0.1	5.6	< 3	1.4	3.0	1.1	< 1
GEO L16E 200N	3	< 0.3	26	28	6.5	450	3.9	7	69	< 1	0.7	1.93	5	< 1	< 5	2.00	51	< 0.1	7.5	< 3	< 0.5	3.9	1.6	< 1
GEO L16E 150N	< 2	< 0.3	28	33	5.0	520	3.3	8	82	< 1	0.8	2.04	6	< 1	< 5	1.97	65	< 0.1	8.0	< 3	< 0.5	5.0	< 0.5	< 1
GEO L16E 100N	< 2	< 0.3	24	24	5.6	570	3.0	6	57	2	0.8	1.39	7	< 1	< 5	1.94	45	< 0.1	7.0	< 3	< 0.5	3.7	2.0	< 1
GEO L16E 50N	< 2	< 0.3	20	22	4.8	480	3.0	5	50	< 1	0.7	1.53	6	< 1	< 5	1.84	58	0.3	6.3	< 3	< 0.5	3.5	< 0.5	< 1
GEO L16E 0N	< 2	< 0.3	55	39	4.0	670	3.7	10	97	< 1	1.1	2.39	6	< 1	< 5	2.19	< 15	< 0.1	8.1	< 3	< 0.5	5.6	1.8	< 1
GEO L16E 50S	< 2	< 0.3	26	33	3.9	380	2.9	9	66	3	0.8	2.09	4	< 1	< 5	1.63	< 15	< 0.1	7.7	< 3	< 0.5	5.6	< 0.5	< 1
GEO L18E 450N	37	< 0.3	15	20	4.7	440	2.1	5	44	< 1	0.5	1.43	3	< 1	< 5	2.01	< 15	0.2	5.6	< 3	< 0.5	2.7	< 0.5	< 1
GEO L18E 400N	< 2	< 0.3	22	23	3.2	470	3.7	5	79	< 1	0.6	2.06	6	< 1	< 5	1.91	54	< 0.1	7.3	< 3	< 0.5	4.2	1.2	< 1
GEO L18E 350N	< 2	< 0.3	22	20	2.1	380	< 0.5	6	54	< 1	0.5	1.55	4	< 1	< 5	1.97	58	< 0.1	6.1	< 3	< 0.5	3.0	< 0.5	< 1
GEO L18E 300N	3	< 0.3	30	26	3.8	450	4.4	9	78	< 1	0.4	2.09	6	< 1	< 5	1.85	59	0.4	7.4	< 3	< 0.5	4.3	1.7	< 1
GEO L18E 250N	< 2	< 0.3	22	23	2.3	340	5.8	4	78	< 1	0.7	1.79	5	< 1	< 5	2.02	< 15	< 0.1	8.0	< 3	< 0.5	3.7	< 0.5	< 1
GEO L18E 200N	3	< 0.3	34	32	3.2	500	5.4	8	76	2	0.8	2.31	5	< 1	< 5	1.93	< 15	0.2	8.3	< 3	0.9	3.8	< 0.5	< 1
GEO L18E 150N	< 2	< 0.3	15	16	3.7	540	4.7	4	54	< 1	0.5	1.50	5	< 1	< 5	1.93	38	< 0.1	5.5	< 3	< 0.5	3.1	1.4	< 1
GEO L18E 100N	< 2	< 0.3	28	30	4.8	500	8.6	5	74	< 1	0.8	1.13	5	< 1	< 5	1.75	46	0.3	7.7	< 3	< 0.5	4.2	1.7	< 1
GEO L18E 50N	< 2	0.4	20	23	4.3	510	2.4	5	47	2	0.7	1.20	6	< 1	< 5	1.84	< 15	< 0.1	6.2	< 3	< 0.5	3.9	1.5	< 1
GEO L18E 0N	< 2	< 0.3	20	26	4.6	490	< 0.5	7	52	< 1	0.7	1.60	5	< 1	< 5	1.96	35	0.2	6.7	< 3	< 0.5	3.7	< 0.5	< 1
GEO L18E 50S	< 2	< 0.3	26	25	3.7	460	4.1	7	62	2	0.7	1.78	5	< 1	< 5	1.85	< 15	< 0.1	6.6	< 3	< 0.5	3.3	< 0.5	< 1
GEO L18E 100S	< 2	0.3	27	38	5.2	550	< 0.5	8	67	2	0.8	1.89	6	< 1	< 5	1.85	63	0.2	7.8	< 3	< 0.5	4.8	1.7	< 1
GEO L20E 450N	< 2	< 0.3	23	23	3.6	450	3.6	7	57	< 1	0.6	1.98	5	< 1	< 5	1.81	27	< 0.1	6.1	< 3	< 0.5	3.3	0.8	< 1
GEO L20E 400N	< 2	< 0.3	25	28	4.7	510	4.0	8	72	< 1	0.6	2.23	5	< 1	< 5	1.71	31	< 0.1	6.6	< 3	1.1	3.6	< 0.5	< 1
GEO L20E 350N	< 2	< 0.3	19	24	3.7	340	2.1	5	60	2	0.4	1.87	3	< 1	< 5	1.63	< 15	< 0.1	6.0	< 3	< 0.5	3.1	< 0.5	< 1

Analyte Symbol	Au	Ag	Ni	Zn	As	Ba	Br	Co	Cr	Cs	Eu	Fe	Hf	Hg	Ir	Na	Rb	Sb	Sc	Se	Ta	Th	U	W
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	0.3	1	1	0.5	50	0.5	1	2	1	0.2	0.01	1	1	5	0.01	15	0.1	0.1	3	0.5	0.2	0.5	1
Analysis Method	INAA	MULT INAA / TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
GEO L20E 300N	< 2	< 0.3	22	23	3.5	400	2.6	5	63	< 1	0.5	1.68	3	< 1	< 5	1.88	39	< 0.1	6.4	< 3	< 0.5	3.4	1.4	< 1
GEO L20E 250N	< 2	< 0.3	41	41	4.9	530	2.8	8	83	3	0.8	2.10	5	< 1	< 5	1.83	48	< 0.1	8.6	< 3	< 0.5	5.2	1.3	< 1
GEO L20E 200N	< 2	< 0.3	22	19	3.8	420	3.4	6	45	< 1	0.5	1.35	3	< 1	< 5	1.95	< 15	< 0.1	5.8	< 3	< 0.5	2.4	0.8	< 1
GEO L20E 150N	< 2	< 0.3	19	18	3.4	430	4.9	6	50	< 1	0.5	1.59	6	< 1	< 5	1.81	47	< 0.1	5.9	< 3	< 0.5	3.6	< 0.5	< 1
GEO L20E 100N	< 2	0.6	45	48	7.8	520	5.7	11	64	3	0.7	2.28	6	< 1	< 5	1.44	58	< 0.1	7.6	< 3	< 0.5	3.9	1.8	< 1
GEO L20E 50N	< 2	< 0.3	23	22	4.3	460	6.3	6	54	< 1	0.7	2.00	6	< 1	< 5	1.81	54	< 0.1	6.3	< 3	< 0.5	3.2	< 0.5	< 1
GEO L20E 0N	< 2	< 0.3	17	20	3.0	540	4.2	5	50	< 1	0.7	1.47	6	< 1	< 5	1.91	59	< 0.1	6.2	< 3	< 0.5	3.5	1.1	< 1
GEO L20E 50S	< 2	0.3	23	28	5.4	390	4.5	8	63	2	0.7	2.08	7	< 1	< 5	1.71	49	< 0.1	7.0	< 3	< 0.5	3.7	1.6	< 1
GEO L20E 100S	< 2	< 0.3	23	30	2.5	600	2.5	7	50	< 1	1.1	1.76	7	< 1	< 5	1.90	34	< 0.1	7.3	< 3	< 0.5	5.8	< 0.5	< 1
GEO L20E 150S	< 2	< 0.3	27	37	3.5	830	7.7	10	66	2	1.1	1.81	7	< 1	< 5	1.88	< 15	< 0.1	8.3	< 3	< 0.5	6.3	1.7	< 1
GEO L22E 550N	< 2	< 0.3	26	28	< 0.5	470	< 0.5	7	83	< 1	0.8	2.07	5	< 1	< 5	1.85	< 15	< 0.1	7.0	< 3	< 0.5	6.0	2.0	< 1
GEO L22E 500N	< 2	< 0.3	30	40	2.0	640	< 0.5	8	99	3	0.8	2.53	6	< 1	< 5	1.71	< 15	< 0.1	8.2	< 3	< 0.5	5.9	< 0.5	< 1
GEO L22E 450N	< 2	< 0.3	21	30	1.1	570	1.9	6	46	2	0.5	1.64	4	< 1	< 5	1.81	39	< 0.1	4.8	< 3	< 0.5	3.1	1.5	< 1
GEO L22E 400N	< 2	< 0.3	25	38	2.6	420	3.6	6	71	< 1	0.7	2.27	5	< 1	< 5	1.74	71	< 0.1	6.5	< 3	< 0.5	4.7	< 0.5	< 1
GEO L22E 350N	< 2	< 0.3	32	43	3.2	490	3.3	10	140	< 1	1.0	3.46	8	< 1	< 5	1.67	< 15	0.2	9.2	< 3	< 0.5	9.9	1.4	< 1
GEO L22E 300N	< 2	< 0.3	32	36	< 0.5	550	1.9	8	76	2	0.7	2.11	5	< 1	< 5	1.63	57	< 0.1	7.1	< 3	< 0.5	4.5	< 0.5	< 1
GEO L22E 250N	5	< 0.3	19	22	1.6	490	2.4	5	41	< 1	0.6	1.43	4	< 1	< 5	1.86	30	< 0.1	5.1	< 3	< 0.5	3.3	< 0.5	< 1
GEO L22E 200N	< 2	< 0.3	28	25	2.7	350	3.8	7	57	2	0.8	1.97	6	< 1	< 5	1.67	< 15	< 0.1	6.2	< 3	< 0.5	3.5	< 0.5	< 1
GEO L22E 150N	< 2	< 0.3	23	22	2.6	610	5.3	8	56	< 1	0.6	1.79	6	< 1	< 5	1.80	< 15	< 0.1	5.9	< 3	< 0.5	4.0	< 0.5	< 1
GEO L22E 100N	32	< 0.3	28	30	< 0.5	650	3.8	6	60	1	< 0.2	1.79	5	< 1	< 5	1.76	71	< 0.1	6.3	< 3	< 0.5	5.0	2.2	< 1
GEO L22E 50N	9	0.4	23	25	< 0.5	650	3.8	6	55	1	0.8	1.50	7	< 1	< 5	1.86	44	0.1	6.2	< 3	< 0.5	4.4	< 0.5	< 1
GEO L22E 0N	< 2	< 0.3	19	28	4.0	550	6.4	6	63	< 1	0.7	2.45	6	< 1	< 5	1.62	< 15	0.2	5.9	< 3	< 0.5	3.9	< 0.5	< 1
GEO L22E 50S	< 2	0.3	14	20	< 0.5	340	3.0	3	44	1	0.7	1.58	7	< 1	< 5	1.53	44	< 0.1	5.0	< 3	< 0.5	4.7	< 0.5	< 1
GEO L22E 100S	< 2	0.6	23	27	3.2	560	3.5	5	55	< 1	0.7	1.92	6	< 1	< 5	1.70	< 15	< 0.1	6.0	< 3	< 0.5	4.7	1.7	< 1
GEO L22E 150S	< 2	< 0.3	16	19	1.6	620	1.8	6	46	1	0.7	1.22	6	< 1	< 5	1.85	38	< 0.1	5.5	< 3	< 0.5	4.3	1.6	< 1
GEO L22E 200S	6	< 0.3	26	24	2.8	400	4.8	6	60	< 1	0.6	1.48	5	< 1	< 5	1.70	< 15	< 0.1	5.8	< 3	1.2	3.8	1.0	< 1
GEO L22E 250S	< 2	< 0.3	24	27	1.7	480	2.2	6	51	< 1	0.7	1.72	4	< 1	< 5	1.90	< 15	< 0.1	6.1	< 3	< 0.5	3.0	< 0.5	< 1
GEO L24E 550N	< 2	< 0.3	25	24	< 0.5	540	1.7	6	68	1	0.6	1.77	3	< 1	< 5	2.00	39	< 0.1	6.6	< 3	< 0.5	3.2	< 0.5	< 1
GEO L24E 500N	8	< 0.3	29	33	< 0.5	360	6.8	8	87	< 1	0.7	1.81	4	< 1	< 5	1.81	78	< 0.1	8.4	< 3	< 0.5	5.7	1.8	< 1
GEO L24E 450N	< 2	< 0.3	30	34	1.7	510	2.0	7	72	< 1	0.7	2.11	4	< 1	< 5	1.78	< 15	< 0.1	6.9	< 3	< 0.5	4.4	< 0.5	< 1
GEO L24E 400N	< 2	< 0.3	24	25	3.9	450	4.5	6	74	< 1	0.6	2.10	5	< 1	< 5	1.82	< 15	< 0.1	6.2	< 3	1.9	4.2	< 0.5	< 1
GEO L24E 350N	< 2	< 0.3	52	66	8.3	1160	9.8	22	69	2	1.4	5.09	5	< 1	< 5	1.74	44	< 0.1	10.8	< 3	< 0.5	6.9	< 0.5	< 1
GEO L24E 300N	< 2	< 0.3	24	28	2.4	460	3.4	6	67	< 1	0.6	1.91	4	< 1	< 5	1.87	< 15	< 0.1	6.6	< 3	< 0.5	4.5	< 0.5	< 1
GEO L24E 250N	< 2	< 0.3	22	30	2.4	660	3.4	6	68	1	0.7	2.08	5	< 1	< 5	1.75	55	0.3	6.5	< 3	< 0.5	4.3	< 0.5	< 1
GEO L24E 200N	< 2	< 0.3	28	23	3.6	550	< 0.5	7	64	< 1	0.6	1.50	6	< 1	< 5	1.92	46	< 0.1	6.0	< 3	< 0.5	4.0	0.9	< 1
GEO L24E 150N	< 2	0.4	30	32	2.7	530	2.6	8	69	< 1	0.6	1.89	6	< 1	< 5	1.78	< 15	0.2	7.0	< 3	< 0.5	3.6	< 0.5	< 1
GEO L24E 100N	< 2	< 0.3	20	31	< 0.5	630	7.5	7	65	2	0.8	2.23	5	< 1	< 5	1.56	< 15	< 0.1	6.8	< 3	< 0.5	4.5	< 0.5	< 1
GEO L24E 50N	< 2	< 0.3	28	31	3.0	490	3.6	6	71	< 1	0.8	1.84	5	< 1	< 5	1.88	< 15	< 0.1	7.2	< 3	< 0.5	5.6	0.9	< 1
GEO L24E 0N	3	< 0.3	39	43	4.4	630	4.5	12	102	< 1	0.8	2.79	5	< 1	< 5	1.76	51	< 0.1	8.5	< 3	< 0.5	4.9	1.7	< 1
GEO L24E 50S	< 2	0.3	26	49	2.9	550	4.8	7	85	< 1	0.6	1.52	5	< 1	< 5	1.66	60	< 0.1	8.5	< 3	< 0.5	6.1	3.4	< 1
GEO L24E 100S	< 2	< 0.3	25	26	2.3	570	5.0	6	75	< 1	0.6	2.03	4	< 1	< 5	1.77	< 15	< 0.1	6.5	< 3	< 0.5	4.0	< 0.5	< 1
GEO L24E 150S	< 2	< 0.3	48	44	3.4	640	12.6	11	132	< 1	1.0	3.34	7	< 1	< 5	1.73	< 15	0.4	10.2	< 3	< 0.5	6.7	< 0.5	< 1
GEO L24E 200S	< 2	< 0.3	28	28	3.5	630	9.8	8	80	< 1	0.8	2.14	6	< 1	< 5	1.83	< 15	< 0.1	7.7	< 3	< 0.5	5.6	< 0.5	< 1
GEO L24E 250S	< 2	< 0.3	16	21	< 0.5	720	2.8	4	53	2	0.6	1.42	6	< 1	< 5	1.90	55	0.2	5.6	< 3	< 0.5	4.3	< 0.5	< 1
GEO L26E 500N	< 2	0.3	18	18	2.3	660	2.2	6	46	< 1	0.6	1.51	6	< 1	< 5	1.92	36	< 0.1	6.2	< 3	< 0.5	4.6	1.3	< 1
GEO L26E 450N	< 2	< 0.3	16	18	< 0.5	550	< 0.5	4	41	< 1	0.7	1.14	6	< 1	< 5	2.11	34	< 0.1	6.0	< 3	< 0.5	3.3	< 0.5	< 1
GEO L26E 400N	< 2	< 0.3	39	44	3.3	650	< 0.5	11	127	2	1.0	2.47	6	< 1	< 5	2.02	< 15	< 0.1	10.8	< 3	< 0.5	5.7	< 0.5	< 1
GEO L26E 350N	6	< 0.3	21	25	2.2	650	< 0.5	4	56	< 1	0.8	1.31	6	< 1	< 5	1.94	32	< 0.1	6.4	< 3	< 0.5	4.1	< 0.5	< 1
GEO L26E 300N	< 2	< 0.3	22	24	< 0.5	580	4.2	4	62	< 1	0.7	1.49	4	< 1	< 5	1.82	55	< 0.1	6.1	< 3	< 0.5	3.1	< 0.5	< 1
GEO L26E 250N	< 2	< 0.3	32	31	4.0	560	4.6	10	84	1	0.7	2.07	4	< 1	< 5	2.02	59	< 0.1	7.7	< 3	< 0.5	4.8	< 0.5	< 1
GEO L26E 200N	< 2	< 0.3	28	25	1.8	560	2.3	9	70	< 1	0.7	1.72	4	< 1	< 5	2.07	39	< 0.1	6.6	< 3	< 0.5	3.4	< 0.5	< 1

Analyte Symbol	Au	Ag	Ni	Zn	As	Ba	Br	Co	Cr	Cs	Eu	Fe	Hf	Hg	Ir	Na	Rb	Sb	Sc	Se	Ta	Th	U	W
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	0.3	1	1	0.5	50	0.5	1	2	1	0.2	0.01	1	1	5	0.01	15	0.1	0.1	3	0.5	0.2	0.5	1
Analysis Method	INAA	MULT INAA / TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
GEO L26E 150N	< 2	< 0.3	33	38	3.5	680	2.9	9	79	1	0.7	2.10	4	< 1	< 5	1.94	< 15	0.3	7.5	< 3	< 0.5	4.6	< 0.5	< 1
GEO L26E 100N	< 2	< 0.3	22	21	< 0.5	650	6.7	7	67	1	0.7	2.02	6	< 1	< 5	1.88	< 15	< 0.1	7.1	< 3	< 0.5	4.7	< 0.5	< 1
GEO L26E 50N	< 2	< 0.3	37	25	3.4	670	< 0.5	10	90	< 1	0.9	1.84	6	< 1	< 5	2.08	< 15	< 0.1	7.4	< 3	< 0.5	4.3	< 0.5	< 1
GEO L26E 0N	< 2	< 0.3	19	22	3.9	750	< 0.5	4	50	< 1	0.7	1.48	6	< 1	< 5	1.95	< 15	0.3	5.4	< 3	< 0.5	3.1	< 0.5	< 1
GEO L26E 50S	< 2	0.4	21	23	3.4	660	1.2	7	53	1	1.0	1.72	6	< 1	< 5	2.05	47	< 0.1	7.2	< 3	< 0.5	5.4	< 0.5	< 1
GEO L26E 100S	< 2	< 0.3	10	15	< 0.5	710	3.2	3	43	1	0.6	1.28	6	< 1	< 5	1.86	41	< 0.1	4.7	< 3	< 0.5	3.2	< 0.5	< 1
GEO L26E 150S	< 2	< 0.3	27	30	2.1	800	4.5	9	67	< 1	0.8	1.90	6	< 1	< 5	1.84	< 15	< 0.1	6.9	< 3	< 0.5	4.6	< 0.5	< 1

Analyte Symbol	La	Ce	Nd	Sm	Sn	Tb	Yb	Lu	Mass	Cu	Cd	Mo	Pb	S	Al	Be	Bi	Ca	K	Mg	Mn	P	Sr	Ti
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	g	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	%	%	ppm	%	ppm	%
Detection Limit	0.5	3	5	0.1	0.01	0.5	0.2	0.05		1	0.3	1	3	0.01	0.01	1	2	0.01	0.01	0.01	1	0.001	1	0.01
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GEO L0E 50N	12.8	24	< 5	2.0	< 0.01	< 0.5	1.0	0.21	33.2	8	< 0.3	< 1	9	0.02	6.31	1	< 2	1.55	1.84	0.55	268	0.039	278	0.27
GEO L0E 0N	13.4	26	7	2.1	< 0.01	< 0.5	1.1	0.20	34.6	5	< 0.3	< 1	9	0.01	6.36	1	< 2	1.70	1.90	0.53	268	0.040	299	0.24
GEO L0E 50S	13.8	30	7	2.1	< 0.01	< 0.5	0.9	0.18	37.8	4	< 0.3	< 1	9	< 0.01	6.31	1	< 2	1.85	1.72	0.55	279	0.047	315	0.24
GEO L0E 100S	11.9	22	7	1.8	< 0.01	< 0.5	1.0	0.19	34.7	3	< 0.3	< 1	7	0.02	6.26	1	< 2	1.76	1.88	0.51	249	0.048	299	0.21
GEO L0E 150S	12.6	22	7	1.8	< 0.01	< 0.5	0.9	0.20	35.1	3	< 0.3	< 1	9	< 0.01	5.98	1	< 2	1.65	2.02	0.48	239	0.028	298	0.24
GEO L0E 200S	13.0	25	8	1.9	< 0.01	< 0.5	1.0	0.11	36.1	15	< 0.3	< 1	9	0.01	6.35	1	< 2	1.72	1.78	0.68	277	0.037	296	0.10
GEO L0E 250S	11.4	21	< 5	1.5	< 0.01	< 0.5	1.0	0.18	32.3	3	< 0.3	< 1	10	< 0.01	5.92	1	< 2	1.55	1.91	0.40	208	0.011	298	0.08
GEO L0E 300S	12.5	22	< 5	2.1	< 0.01	< 0.5	1.1	0.17	32.0	7	< 0.3	< 1	7	0.13	5.65	1	< 2	2.29	1.61	0.62	334	0.047	321	0.23
GEO L0E 350S	12.0	23	7	2.0	< 0.01	< 0.5	1.1	0.18	34.5	4	0.5	< 1	9	0.05	6.52	1	< 2	2.60	1.56	0.87	1690	0.052	340	0.18
GEO L0E 400S	20.5	34	10	3.0	< 0.01	< 0.5	1.4	0.25	25.7	10	< 0.3	< 1	10	0.06	6.00	1	< 2	2.22	1.94	0.71	265	0.042	269	0.23
GEO L0E 450S	22.5	42	13	3.1	< 0.01	< 0.5	1.2	0.25	30.0	8	0.3	< 1	5	0.01	10.5	1	< 2	2.05	2.45	1.10	505	0.041	370	0.30
GEO L0E 500S	22.7	39	16	2.8	< 0.01	< 0.5	1.3	0.23	27.9	10	< 0.3	< 1	9	< 0.01	5.88	1	< 2	4.77	1.88	1.47	365	0.036	267	0.22
GEO L2E 150N	9.7	17	9	1.5	< 0.01	< 0.5	0.8	0.11	39.4	2	< 0.3	< 1	10	< 0.01	6.30	1	< 2	1.67	1.79	0.43	218	0.043	305	0.19
GEO L2E 100N	13.0	24	12	1.7	< 0.01	< 0.5	1.1	0.20	30.0	5	< 0.3	< 1	11	< 0.01	6.02	1	< 2	1.52	2.23	0.49	252	0.024	291	0.18
GEO L2E 50N	14.3	27	9	1.9	< 0.01	< 0.5	0.8	0.13	29.3	5	< 0.3	< 1	10	< 0.01	6.42	1	< 2	1.66	2.12	0.64	304	0.036	294	0.18
GEO L2E 0N	10.9	19	< 5	1.6	< 0.01	< 0.5	0.8	0.15	36.0	4	< 0.3	1	8	0.01	6.29	1	< 2	1.78	1.89	0.53	278	0.047	314	0.21
GEO L2E 50S	12.0	24	8	1.6	< 0.01	< 0.5	0.9	0.19	30.1	2	< 0.3	< 1	10	< 0.01	5.87	1	< 2	1.45	1.93	0.41	203	0.017	281	0.09
GEO L2E 100S	11.8	23	7	1.6	< 0.01	< 0.5	0.9	0.16	31.8	4	< 0.3	< 1	12	0.02	5.92	1	< 2	1.42	1.75	0.41	239	0.020	273	0.16
GEO L2E 150S	12.4	22	6	1.8	< 0.01	< 0.5	0.9	0.24	27.3	8	< 0.3	< 1	11	0.02	5.38	< 1	< 2	1.61	1.67	0.83	290	0.021	267	0.08
GEO L2E 200S	12.7	19	12	1.8	< 0.01	< 0.5	0.8	0.14	36.9	3	< 0.3	1	11	< 0.01	6.30	1	< 2	1.69	1.93	0.50	249	0.041	303	0.19
GEO L2E 250S	12.9	25	10	1.8	< 0.01	< 0.5	1.1	0.18	33.2	3	< 0.3	< 1	9	0.01	4.65	1	< 2	1.39	1.70	0.43	232	0.027	247	0.24
GEO L2E 300S	12.5	21	< 5	1.7	< 0.01	< 0.5	1.1	0.18	29.7	3	< 0.3	1	8	< 0.01	5.53	< 1	< 2	1.37	1.78	0.34	207	0.045	272	0.31
GEO L2E 350S	13.9	23	< 5	1.9	< 0.01	< 0.5	1.2	0.21	30.7	5	< 0.3	< 1	9	0.01	6.49	1	< 2	1.59	1.78	0.52	272	0.044	280	0.29
GEO L2E 400S	15.6	28	< 5	2.3	< 0.01	< 0.5	1.3	0.25	29.4	6	< 0.3	< 1	10	0.01	6.38	1	< 2	1.88	1.58	0.68	349	0.024	298	0.10
GEO L4E 200N	13.4	24	9	1.8	< 0.01	< 0.5	0.9	0.16	39.4	2	< 0.3	< 1	9	0.01	6.13	1	< 2	1.89	1.64	0.54	347	0.040	313	0.20
GEO L4E 150N	10.1	18	7	1.6	< 0.01	< 0.5	0.9	0.13	36.8	3	< 0.3	< 1	9	0.02	5.61	1	< 2	1.90	1.61	0.45	326	0.033	314	0.15
GEO L4E 100N	14.8	24	9	2.2	< 0.01	< 0.5	0.9	0.20	39.0	8	< 0.3	< 1	10	< 0.01	6.53	1	< 2	2.08	1.99	0.57	331	0.044	351	0.21
GEO L4E 50N	10.2	17	9	1.5	< 0.01	< 0.5	0.8	0.16	44.7	9	< 0.3	< 1	10	< 0.01	6.73	1	< 2	1.94	1.82	0.73	295	0.021	326	0.10
GEO L4E 0N	9.8	16	5	1.3	< 0.01	< 0.5	0.9	0.17	43.7	3	< 0.3	< 1	10	0.01	6.18	1	< 2	1.56	1.66	0.44	228	0.027	283	0.17
GEO L4E 50S	13.3	22	9	1.9	< 0.01	< 0.5	1.2	0.25	27.3	6	< 0.3	< 1	11	0.02	6.74	1	< 2	1.90	1.57	0.57	338	0.057	318	0.29
GEO L4E 100S	12.8	20	5	1.9	< 0.01	< 0.5	1.2	0.17	29.9	4	< 0.3	< 1	9	< 0.01	4.81	< 1	< 2	1.54	1.70	0.46	340	0.053	256	0.29
GEO L4E 150S	11.6	19	< 5	1.6	< 0.01	< 0.5	1.1	0.21	30.0	8	< 0.3	< 1	7	0.01	6.78	1	< 2	2.02	1.55	0.63	291	0.018	330	0.27
GEO L4E 200S	11.5	20	6	1.9	< 0.01	< 0.5	1.2	0.24	27.4	18	0.3	< 1	7	0.01	7.33	1	< 2	2.09	1.39	1.16	404	0.023	290	0.09
GEO L4E 250S	13.4	24	< 5	2.0	< 0.01	< 0.5	1.3	0.26	26.3	7	< 0.3	< 1	9	0.01	6.21	1	< 2	1.73	1.69	0.64	292	0.013	274	0.16
GEO L4E 300S	18.0	30	9	2.4	< 0.01	< 0.5	1.3	0.23	35.3	20	0.4	< 1	8	0.01	6.71	1	< 2	2.02	1.77	0.75	361	0.036	316	0.11
GEO L6E 200N	12.7	24	8	1.8	< 0.01	< 0.5	1.1	0.19	29.9	9	0.3	< 1	11	0.01	5.65	1	< 2	1.48	1.75	0.55	249	0.051	260	0.15
GEO L6E 150N	12.1	21	7	1.9	< 0.01	< 0.5	0.8	0.17	38.8	4	< 0.3	< 1	10	0.01	5.79	1	< 2	1.83	1.72	0.47	365	0.027	317	0.16
GEO L6E 100N	14.4	29	10	2.2	< 0.01	0.6	1.2	0.18	34.4	13	< 0.3	< 1	9	0.01	6.43	1	< 2	1.77	1.69	0.63	292	0.029	298	0.13
GEO L6E 50N	13.9	24	8	2.0	< 0.01	< 0.5	0.9	0.24	31.4	4	< 0.3	2	9	0.01	4.85	3	< 2	1.39	1.61	0.41	223	0.033	232	0.26
GEO L6E 0N	12.2	22	< 5	1.7	< 0.01	< 0.5	1.1	0.18	31.9	3	< 0.3	< 1	8	< 0.01	5.47	< 1	< 2	1.47	1.83	0.43	240	0.021	264	0.30
GEO L6E 50S	12.9	23	6	2.0	< 0.01	< 0.5	1.1	0.21	28.6	10	0.4	< 1	8	0.02	6.59	1	< 2	1.89	1.56	0.78	359	0.034	283	0.28
GEO L8E 300N	13.1	20	8	2.0	< 0.01	< 0.5	0.9	0.18	40.5	5	< 0.3	< 1	7	0.02	5.85	2	< 2	1.95	1.68	0.50	260	0.036	327	0.18
GEO L8E 250N	16.7	26	12	2.5	< 0.01	< 0.5	1.1	0.22	33.5	5	< 0.3	2	8	0.02	5.84	1	< 2	1.88	1.76	0.52	279	0.046	303	0.21
GEO L8E 200N	12.3	22	8	2.0	< 0.01	< 0.5	0.8	0.20	38.7	2	< 0.3	< 1	9	< 0.01	6.02	1	< 2	1.91	1.98	0.49	239	0.042	325	0.17
GEO L8E 150N	13.8	25	11	2.1	< 0.01	< 0.5	1.3	0.19	31.2	33	< 0.3	< 1	9	0.02	5.83	1	< 2	1.63	1.61	0.62	309	0.022	274	0.10
GEO L8E 100N	16.1	27	7	2.2	< 0.01	< 0.5	1.4	0.22	28.3	5	< 0.3	< 1	10	< 0.01	4.96	< 1	< 2	1.56	1.83	0.92	283	0.017	237	0.06
GEO L8E 50N	12.9	21	7	1.6	< 0.01	< 0.5	0.9	0.18	32.3	4	< 0.3	< 1	13	0.01	5.69	1	< 2	1.54	2.01	0.42	259	0.016	286	0.11
GEO L8E 0N	18.6	35	12	2.6	< 0.01	< 0.5	1.2	0.18	33.8	14	< 0.3	< 1	7	< 0.01	5.78	1	< 2	3.80	1.83	1.10	367	0.055	293	0.23
GEO L8E 50S	14.8	27	7	2.1	< 0.01	< 0.5	1.1	0.24	33.2	6	< 0.3	< 1	9	0.01	5.05	< 1	< 2	1.43	1.65	0.38	268	0.030	256	0.27
GEO L8E 100S	16.7	31	9	2.6	< 0.01	< 0.5	1.3	0.24	39.5	3	< 0.3	< 1	8	< 0.01	6.02	1	< 2	1.85	1.82	0.52	282	0.049	308	0.23
GEO L10E 350N	10.5	18	6	1.5	< 0.01	< 0.5	0.8	0.14	38.8	2	< 0.3	< 1	8	< 0.01	5.83	1	< 2	1.69	1.65	0.42	253	0.020	306	0.21
GEO L10E 300N	9.7	17	5	1.4	< 0.01	< 0.5	0.6	0.14	38.4	3	< 0.3	< 1	9	< 0.01	5.98	1	< 2	1.56	1.82	0.40	202	0.033	300	0.19

Analyte Symbol	La	Ce	Nd	Sm	Sn	Tb	Yb	Lu	Mass	Cu	Cd	Mo	Pb	S	Al	Be	Bi	Ca	K	Mg	Mn	P	Sr	Ti
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	g	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	%	%	ppm	%	ppm	%
Detection Limit	0.5	3	5	0.1	0.01	0.5	0.2	0.05		1	0.3	1	3	0.01	0.01	1	2	0.01	0.01	0.01	1	0.001	1	0.01
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GEO L10E 250N	8.8	16	5	1.3	< 0.01	< 0.5	0.7	0.13	37.8	2	< 0.3	2	8	< 0.01	5.66	1	< 2	1.44	1.69	0.32	181	0.033	290	0.14
GEO L10E 200N	9.7	15	10	1.4	< 0.01	< 0.5	0.8	0.16	36.8	2	< 0.3	< 1	11	< 0.01	5.65	1	< 2	1.41	1.86	0.32	186	0.015	287	0.10
GEO L10E 150N	11.2	23	9	1.8	< 0.01	< 0.5	0.8	0.15	42.6	3	< 0.3	< 1	9	0.01	6.16	1	< 2	1.71	1.77	0.48	264	0.043	314	0.19
GEO L10E 100N	12.0	23	< 5	1.7	< 0.01	< 0.5	0.9	0.20	31.8	6	< 0.3	< 1	11	0.02	5.93	1	< 2	1.52	1.66	0.46	228	0.048	271	0.20
GEO L10E 50N	10.9	20	< 5	1.8	< 0.01	< 0.5	0.9	0.19	38.8	4	< 0.3	< 1	8	0.05	6.98	1	< 2	1.67	1.78	0.49	242	0.053	305	0.22
GEO L10E 0N	13.3	25	< 5	2.0	< 0.01	< 0.5	1.1	0.16	31.7	5	< 0.3	1	7	0.02	5.87	1	< 2	1.97	1.63	0.56	264	0.040	300	0.17
GEO L10E 50S	13.6	22	7	2.0	< 0.01	0.6	0.6	0.20	38.1	12	< 0.3	< 1	8	0.04	5.66	1	< 2	2.15	1.70	0.56	240	0.050	316	0.20
GEO L12E 350N	8.9	15	< 5	1.3	< 0.01	< 0.5	0.7	0.16	35.7	2	< 0.3	2	8	< 0.01	3.90	< 1	< 2	1.15	1.61	0.23	187	0.028	215	0.22
GEO L12E 300N	9.8	15	< 5	1.2	< 0.01	< 0.5	0.7	< 0.05	32.0	1	< 0.3	< 1	8	< 0.01	4.99	< 1	< 2	1.29	1.63	0.24	169	0.016	268	0.21
GEO L12E 250N	9.3	18	< 5	1.4	< 0.01	< 0.5	0.6	0.14	37.8	2	< 0.3	< 1	9	< 0.01	5.85	1	< 2	1.53	1.68	0.37	222	0.046	286	0.21
GEO L12E 200N	9.8	18	7	1.4	< 0.01	< 0.5	0.7	0.17	37.9	2	< 0.3	< 1	9	0.01	6.05	1	< 2	1.50	1.80	0.39	232	0.025	284	0.24
GEO L12E 150N	12.6	23	11	1.9	< 0.01	< 0.5	0.9	0.17	34.4	5	< 0.3	< 1	11	< 0.01	6.00	1	< 2	1.50	1.84	0.45	257	0.028	274	0.11
GEO L12E 100N	9.4	15	< 5	1.3	< 0.01	< 0.5	0.8	0.12	31.0	1	< 0.3	< 1	11	0.01	5.59	1	< 2	1.41	1.74	0.29	177	0.016	293	0.12
GEO L12E 50N	11.8	19	9	1.7	< 0.01	< 0.5	0.9	0.16	43.1	3	< 0.3	< 1	9	< 0.01	5.97	1	< 2	1.84	1.71	0.51	256	0.028	318	0.10
GEO L12E 0N	10.9	17	7	1.3	< 0.01	< 0.5	0.9	0.17	34.5	2	< 0.3	< 1	10	< 0.01	5.72	1	< 2	1.53	1.85	0.34	196	0.004	303	0.17
GEO L12E 50S	10.9	23	8	1.6	< 0.01	< 0.5	1.0	0.14	39.6	2	< 0.3	1	9	< 0.01	6.09	1	< 2	1.78	1.74	0.46	268	0.033	308	0.13
GEO L14E 350N	13.1	22	7	1.7	< 0.01	< 0.5	1.1	0.22	31.3	2	< 0.3	< 1	9	< 0.01	3.78	< 1	< 2	1.16	1.52	0.29	218	0.028	215	0.27
GEO L14E 300N	12.2	20	6	1.7	< 0.01	< 0.5	1.0	0.17	40.3	4	< 0.3	< 1	8	0.02	6.19	1	38	1.84	1.64	0.59	347	0.038	305	0.27
GEO L14E 250N	12.3	23	10	1.7	< 0.01	< 0.5	0.9	0.17	36.6	5	< 0.3	< 1	8	< 0.01	6.41	1	< 2	1.77	1.61	0.52	284	0.019	302	0.09
GEO L14E 200N	10.4	22	6	1.4	< 0.01	< 0.5	0.8	0.17	35.7	3	< 0.3	< 1	9	< 0.01	5.88	1	< 2	1.52	1.77	0.41	207	0.024	291	0.10
GEO L14E 150N	11.1	18	< 5	1.6	< 0.01	< 0.5	1.0	0.16	41.6	3	< 0.3	< 1	9	0.01	6.43	1	< 2	1.73	1.86	0.52	273	0.034	309	0.15
GEO L14E 100N	10.2	17	10	1.5	< 0.01	< 0.5	1.0	0.17	37.5	2	< 0.3	< 1	9	0.02	6.39	1	< 2	1.79	1.73	0.56	283	0.049	316	0.21
GEO L14E 50N	9.7	20	8	1.6	< 0.01	< 0.5	0.8	0.18	39.9	4	< 0.3	< 1	12	< 0.01	6.19	1	< 2	1.79	1.70	0.60	274	0.027	316	0.09
GEO L14E 0N	11.6	18	< 5	1.6	< 0.01	< 0.5	1.0	0.23	35.2	3	< 0.3	< 1	8	0.01	6.73	1	< 2	1.83	1.58	0.79	352	0.016	299	0.09
GEO L14E 50S	37.4	57	21	4.4	< 0.01	< 0.5	1.4	0.25	29.0	17	0.4	< 1	7	0.08	5.84	1	< 2	2.32	1.48	0.74	344	0.057	296	0.26
GEO L16E 400N	12.7	24	6	1.8	< 0.01	< 0.5	1.0	0.19	41.9	4	< 0.3	2	6	< 0.01	6.10	1	< 2	1.72	1.57	0.52	322	0.039	306	0.22
GEO L16E 350N	12.5	23	7	1.7	< 0.01	< 0.5	1.0	0.21	38.9	4	< 0.3	1	8	0.02	6.15	1	< 2	1.57	1.69	0.47	259	0.038	281	0.22
GEO L16E 300N	12.4	28	7	1.7	< 0.01	< 0.5	1.0	0.20	39.6	4	< 0.3	< 1	8	< 0.01	5.53	1	< 2	1.68	1.60	0.45	273	0.040	298	0.19
GEO L16E 250N	14.0	22	10	2.0	< 0.01	< 0.5	0.9	0.18	36.3	7	< 0.3	1	7	0.03	5.78	1	< 2	1.96	1.80	0.47	219	0.045	319	0.18
GEO L16E 200N	20.5	30	15	2.6	< 0.01	< 0.5	1.1	0.23	35.9	11	< 0.3	< 1	8	0.01	6.33	1	< 2	1.92	1.81	0.62	410	0.025	307	0.15
GEO L16E 150N	19.4	35	9	2.7	< 0.01	< 0.5	1.3	0.22	28.0	10	< 0.3	< 1	12	0.01	6.49	1	< 2	1.80	2.03	0.72	348	0.036	296	0.13
GEO L16E 100N	17.2	29	10	2.4	< 0.01	< 0.5	1.6	0.24	33.5	16	< 0.3	< 1	10	< 0.01	6.18	1	< 2	1.93	1.85	0.55	258	0.022	306	0.11
GEO L16E 50N	14.4	26	7	2.0	< 0.01	< 0.5	1.2	0.20	30.7	5	< 0.3	< 1	10	< 0.01	6.24	1	< 2	1.66	1.97	0.53	255	0.021	291	0.09
GEO L16E 0N	28.5	57	20	3.7	< 0.01	< 0.5	1.0	0.19	34.7	27	< 0.3	< 1	9	0.01	7.16	2	< 2	1.77	1.80	1.10	299	0.060	421	0.15
GEO L16E 50S	21.8	37	10	3.0	< 0.01	< 0.5	1.3	0.24	28.3	15	< 0.3	< 1	8	< 0.01	5.58	1	< 2	7.31	1.85	2.17	387	0.045	252	0.16
GEO L18E 450N	9.5	17	< 5	1.4	< 0.01	< 0.5	0.9	0.17	37.8	26	< 0.3	2	10	0.02	3.49	1	< 2	1.47	1.45	0.31	239	0.023	261	0.16
GEO L18E 400N	14.4	24	9	1.9	< 0.01	< 0.5	1.3	0.21	32.7	3	< 0.3	2	7	0.01	6.31	1	< 2	1.62	1.53	0.52	292	0.049	278	0.31
GEO L18E 350N	11.2	18	9	1.5	< 0.01	< 0.5	0.9	0.17	42.5	4	< 0.3	< 1	7	0.01	5.99	1	< 2	1.65	1.60	0.49	276	0.025	294	0.21
GEO L18E 300N	13.2	24	< 5	1.9	< 0.01	< 0.5	1.0	0.22	34.9	5	< 0.3	< 1	8	0.01	6.62	1	< 2	1.59	1.49	0.54	324	0.046	270	0.25
GEO L18E 250N	17.3	23	12	2.7	< 0.01	< 0.5	1.3	0.25	35.0	4	< 0.3	< 1	8	0.01	6.21	1	< 2	1.92	1.53	0.60	342	0.012	312	0.06
GEO L18E 200N	17.3	32	11	2.7	< 0.01	< 0.5	1.4	0.23	34.5	7	< 0.3	< 1	8	0.01	6.09	1	< 2	2.10	1.75	0.72	439	0.055	307	0.22
GEO L18E 150N	10.9	19	6	1.4	< 0.01	< 0.5	0.9	0.14	33.0	2	< 0.3	< 1	9	< 0.01	5.66	1	< 2	1.48	1.61	0.39	225	0.012	279	0.09
GEO L18E 100N	23.3	36	17	3.2	< 0.01	< 0.5	1.6	0.31	25.6	171	< 0.3	2	8	0.09	5.71	1	< 2	2.17	1.97	0.54	215	0.082	264	0.23
GEO L18E 50N	16.6	28	12	2.5	< 0.01	< 0.5	1.1	0.20	30.6	6	< 0.3	< 1	7	0.03	6.03	1	< 2	2.13	1.90	0.58	273	0.067	309	0.24
GEO L18E 0N	16.4	27	7	2.4	< 0.01	< 0.5	1.1	0.19	38.1	9	< 0.3	< 1	9	< 0.01	5.94	1	< 2	3.13	1.93	0.99	306	0.047	300	0.15
GEO L18E 50S	13.6	29	7	2.0	< 0.01	< 0.5	1.1	0.23	28.5	9	< 0.3	< 1	8	0.02	6.97	< 1	< 2	1.78	1.59	0.59	345	0.056	276	0.23
GEO L18E 100S	20.4	36	14	2.8	< 0.01	< 0.5	1.4	0.24	29.4	17	0.3	< 1	8	0.03	6.25	1	< 2	2.44	2.08	0.97	282	0.056	285	0.27
GEO L20E 450N	11.9	20	5	1.7	< 0.01	< 0.5	0.9	0.17	37.5	5	< 0.3	< 1	9	0.02	6.51	1	< 2	1.54	1.72	0.49	244	0.045	272	0.24
GEO L20E 400N	12.6	21	< 5	1.8	< 0.01	< 0.5	1.0	0.18	34.6	8	< 0.3	< 1	10	0.01	6.53	1	< 2	1.54	1.49	0.53	315	0.060	269	0.21
GEO L20E 350N	10.4	16	5	1.5	< 0.01	< 0.5	0.9	0.19	36.7	3	< 0.3	< 1	8	0.02	6.29	1	< 2	1.55	1.51	0.49	314	0.037	277	0.13
GEO L20E 300N	12.0	21	6	1.6	< 0.01	< 0.5	0.8	0.19	36.8	6	< 0.3	< 1	9	0.01	6.10	1	< 2	1.84	1.53	0.55	328	0.009	303	0.07
GEO L20E 250N	25.7	39	14	3.4	< 0.01	< 0.5	1.3	0.24	30.6	13	< 0.3	< 1	12	0.02	7.92	2	< 2	2.31	2.34	0.96	407	0.029	359	0.08

Analyte Symbol	La	Ce	Nd	Sm	Sn	Tb	Yb	Lu	Mass	Cu	Cd	Mo	Pb	S	Al	Be	Bi	Ca	K	Mg	Mn	P	Sr	Ti
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	g	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	%	%	ppm	%	ppm	%
Detection Limit	0.5	3	5	0.1	0.01	0.5	0.2	0.05		1	0.3	1	3	0.01	0.01	1	2	0.01	0.01	0.01	1	0.001	1	0.01
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GEO L20E 200N	10.2	16	6	1.5	< 0.01	< 0.5	0.8	0.17	39.8	3	< 0.3	< 1	8	< 0.01	6.22	1	< 2	1.78	1.69	0.50	250	0.021	318	0.07
GEO L20E 150N	12.3	23	7	1.9	< 0.01	< 0.5	1.0	0.21	33.9	3	< 0.3	3	8	0.01	3.37	< 1	< 2	1.34	1.51	0.33	242	0.039	235	0.22
GEO L20E 100N	19.3	33	10	2.6	< 0.01	0.7	1.4	0.27	24.5	57	< 0.3	< 1	8	0.02	7.86	1	< 2	1.70	1.64	0.70	920	0.028	259	0.39
GEO L20E 50N	14.0	23	10	2.1	< 0.01	< 0.5	1.1	0.18	33.1	4	< 0.3	< 1	11	< 0.01	6.07	1	< 2	1.62	1.83	0.53	259	0.030	282	0.16
GEO L20E 0N	15.3	27	6	2.1	< 0.01	< 0.5	0.9	0.21	39.3	3	< 0.3	< 1	9	< 0.01	5.77	1	< 2	1.78	1.84	0.52	267	0.044	298	0.17
GEO L20E 50S	14.6	26	8	2.0	< 0.01	< 0.5	1.0	0.20	26.0	5	< 0.3	< 1	11	0.01	6.19	1	< 2	1.55	1.84	0.62	294	0.027	270	0.17
GEO L20E 100S	22.6	51	25	3.6	< 0.01	< 0.5	1.5	0.19	34.5	8	< 0.3	< 1	10	< 0.01	6.23	1	< 2	2.06	1.88	0.65	333	0.047	300	0.22
GEO L20E 150S	26.3	51	18	4.0	< 0.01	< 0.5	1.5	0.34	26.7	31	< 0.3	< 1	8	0.02	6.21	1	< 2	2.14	1.99	0.71	531	0.062	283	0.26
GEO L22E 550N	17.3	36	< 5	2.4	< 0.01	< 0.5	1.4	0.14	41.7	5	0.3	< 1	7	0.02	6.03	1	< 2	1.82	1.58	0.63	392	0.045	296	0.27
GEO L22E 500N	16.1	34	13	2.5	< 0.01	< 0.5	1.7	0.21	33.5	6	< 0.3	< 1	10	0.03	6.86	1	< 2	1.76	1.46	0.67	414	0.062	286	0.26
GEO L22E 450N	9.1	21	< 5	1.4	< 0.01	< 0.5	0.7	0.10	39.3	35	0.4	< 1	11	0.01	6.54	1	< 2	1.61	1.83	0.45	282	0.040	309	0.20
GEO L22E 400N	11.7	25	14	1.9	< 0.01	< 0.5	1.2	0.15	30.4	10	0.3	< 1	9	0.02	6.67	1	< 2	1.59	1.67	0.56	352	0.065	275	0.32
GEO L22E 350N	25.4	51	27	3.5	< 0.01	< 0.5	1.8	0.30	32.5	8	< 0.3	< 1	8	0.01	3.43	< 1	< 2	1.38	1.24	0.51	454	0.070	216	0.41
GEO L22E 300N	14.0	30	< 5	2.2	< 0.01	< 0.5	1.2	0.24	37.7	6	< 0.3	< 1	9	0.02	5.82	1	< 2	1.60	1.63	0.62	335	0.061	276	0.27
GEO L22E 250N	10.4	21	< 5	1.7	< 0.01	< 0.5	0.8	0.17	40.8	3	< 0.3	2	10	0.01	5.67	1	< 2	1.67	1.69	0.48	256	0.052	298	0.16
GEO L22E 200N	12.3	27	14	2.0	< 0.01	< 0.5	1.3	0.15	32.8	7	< 0.3	< 1	9	0.01	6.25	1	< 2	1.63	1.73	0.55	253	0.057	278	0.23
GEO L22E 150N	13.5	36	17	2.3	< 0.01	< 0.5	1.4	0.22	29.6	7	< 0.3	< 1	10	0.01	6.46	1	< 2	1.68	1.96	0.56	266	0.029	294	0.11
GEO L22E 100N	15.1	29	< 5	2.2	< 0.01	< 0.5	1.4	0.10	25.1	18	< 0.3	< 1	11	0.02	6.17	1	< 2	1.60	1.90	0.64	304	0.038	277	0.23
GEO L22E 50N	15.2	34	< 5	2.4	< 0.01	< 0.5	1.3	0.20	30.2	7	< 0.3	< 1	9	0.01	6.39	1	< 2	1.76	1.99	0.58	271	0.040	307	0.24
GEO L22E 0N	13.4	27	< 5	2.0	< 0.01	< 0.5	1.4	0.17	31.2	4	< 0.3	< 1	14	0.02	6.52	1	< 2	1.59	1.85	0.52	320	0.044	282	0.23
GEO L22E 50S	13.1	30	14	1.9	< 0.01	< 0.5	1.4	0.10	30.0	4	< 0.3	< 1	13	0.02	5.45	< 1	< 2	1.44	1.82	0.40	235	0.023	260	0.21
GEO L22E 100S	13.8	34	15	2.0	< 0.01	< 0.5	1.3	0.21	28.6	9	< 0.3	< 1	8	0.03	6.22	1	< 2	1.66	2.06	0.62	294	0.082	292	0.36
GEO L22E 150S	14.1	29	9	2.0	< 0.01	< 0.5	1.3	0.20	33.3	4	< 0.3	< 1	9	< 0.01	3.96	1	< 2	1.39	1.72	0.41	237	0.027	253	0.24
GEO L22E 200S	12.0	26	< 5	1.9	< 0.01	< 0.5	1.0	0.18	32.6	23	< 0.3	1	9	0.01	5.15	1	< 2	1.54	1.68	0.50	238	0.027	263	0.19
GEO L22E 250S	11.9	23	11	2.0	< 0.01	< 0.5	1.0	0.13	41.3	20	< 0.3	< 1	7	0.01	5.98	1	< 2	2.13	1.71	0.67	361	0.063	325	0.20
GEO L24E 550N	11.8	22	13	1.9	< 0.01	< 0.5	1.0	0.08	39.5	3	< 0.3	< 1	8	< 0.01	5.67	1	< 2	1.81	1.53	0.59	302	0.034	307	0.17
GEO L24E 500N	21.9	42	26	3.3	< 0.01	< 0.5	1.6	0.30	28.7	6	< 0.3	2	8	0.03	6.13	2	< 2	1.85	1.55	0.74	333	0.060	287	0.24
GEO L24E 450N	12.3	27	9	2.0	< 0.01	< 0.5	1.2	0.22	38.7	10	< 0.3	< 1	9	0.02	7.09	1	< 2	1.86	1.74	0.65	354	0.059	318	0.26
GEO L24E 400N	12.7	24	12	2.1	< 0.01	< 0.5	1.0	0.15	36.0	7	< 0.3	< 1	9	0.02	6.35	1	< 2	1.79	1.69	0.60	334	0.028	307	0.13
GEO L24E 350N	40.7	68	29	5.8	< 0.01	< 0.5	2.5	0.45	28.1	28	0.5	< 1	6	0.03	6.33	1	< 2	2.41	1.55	1.03	3710	0.086	302	0.23
GEO L24E 300N	11.6	22	< 5	1.8	< 0.01	< 0.5	1.3	0.15	36.0	4	< 0.3	< 1	9	< 0.01	6.44	1	< 2	1.75	1.59	0.56	355	0.028	298	0.05
GEO L24E 250N	12.9	27	14	2.2	< 0.01	< 0.5	1.5	0.18	32.0	5	< 0.3	< 1	10	0.01	6.61	1	< 2	1.56	1.77	0.53	270	0.046	277	0.11
GEO L24E 200N	13.3	28	6	2.2	< 0.01	< 0.5	1.3	0.14	36.1	5	< 0.3	1	8	< 0.01	5.89	1	< 2	1.71	1.36	0.56	288	0.025	301	0.25
GEO L24E 150N	12.7	27	8	2.1	< 0.01	< 0.5	1.2	0.12	36.2	10	< 0.3	< 1	8	0.01	6.01	1	< 2	1.72	1.52	0.64	414	0.036	293	0.29
GEO L24E 100N	15.5	33	17	2.9	< 0.01	< 0.5	1.4	0.22	27.7	4	< 0.3	2	10	0.02	6.57	1	< 2	1.60	1.54	0.52	236	0.037	270	0.26
GEO L24E 50N	16.0	37	16	2.8	< 0.01	< 0.5	1.5	0.16	38.1	5	< 0.3	< 1	9	< 0.01	6.17	1	< 2	1.92	1.61	0.64	362	0.024	306	0.20
GEO L24E 0N	17.0	44	7	2.8	< 0.01	< 0.5	1.4	0.31	30.6	23	< 0.3	< 1	7	0.02	7.18	1	< 2	1.97	1.60	0.84	507	0.050	303	0.30
GEO L24E 50S	21.0	40	12	3.7	< 0.01	< 0.5	1.7	0.33	25.8	35	0.6	< 1	6	0.20	6.18	1	< 2	2.47	1.87	0.82	318	0.089	265	0.33
GEO L24E 100S	12.3	25	9	2.1	< 0.01	< 0.5	1.0	0.18	36.3	6	< 0.3	< 1	12	0.03	6.93	1	< 2	1.74	1.72	0.60	320	0.023	301	0.08
GEO L24E 150S	19.8	37	13	2.9	< 0.01	< 0.5	1.6	0.14	29.6	14	0.5	< 1	8	0.04	7.73	1	< 2	2.08	1.54	1.02	495	0.041	275	0.27
GEO L24E 200S	17.7	44	12	2.8	< 0.01	< 0.5	1.2	0.17	33.4	6	< 0.3	< 1	9	0.02	6.54	1	< 2	1.79	1.58	0.62	398	0.034	290	0.10
GEO L24E 250S	11.7	21	9	1.8	< 0.01	< 0.5	1.1	0.12	37.3	2	< 0.3	< 1	11	< 0.01	5.82	1	< 2	1.72	1.76	0.50	270	0.018	303	0.12
GEO L26E 500N	13.3	30	12	2.1	< 0.01	< 0.5	1.0	0.10	36.3	3	< 0.3	< 1	9	< 0.01	3.57	1	< 2	1.37	1.53	0.36	257	0.028	246	0.21
GEO L26E 450N	11.3	28	11	2.1	< 0.01	< 0.5	0.8	0.19	37.7	2	< 0.3	< 1	7	0.01	5.84	1	< 2	1.98	1.71	0.53	281	0.053	326	0.21
GEO L26E 400N	17.6	36	21	3.0	< 0.01	< 0.5	1.6	0.30	35.6	4	< 0.3	< 1	7	0.02	6.16	1	< 2	2.34	1.59	1.11	518	0.049	311	0.27
GEO L26E 350N	13.6	28	14	2.3	< 0.01	0.6	1.3	0.13	36.9	3	< 0.3	< 1	7	0.04	6.15	1	< 2	2.11	1.82	0.64	295	0.058	328	0.25
GEO L26E 300N	12.8	24	13	2.0	< 0.01	< 0.5	1.1	0.18	37.8	3	< 0.3	< 1	9	0.02	6.19	1	< 2	1.88	1.68	0.58	331	0.043	309	0.15
GEO L26E 250N	15.1	40	10	2.3	< 0.01	< 0.5	1.4	0.17	39.5	6	< 0.3	< 1	9	0.01	6.56	1	< 2	1.99	1.68	0.71	441	0.042	327	0.13
GEO L26E 200N	12.3	29	< 5	2.0	< 0.01	< 0.5	1.1	0.08	41.5	5	< 0.3	< 1	7	0.02	6.66	1	< 2	1.84	1.67	0.62	311	0.037	319	0.20
GEO L26E 150N	14.1	28	12	2.2	< 0.01	< 0.5	1.4	0.11	36.9	6	< 0.3	< 1	6	0.03	6.94	2	< 2	1.76	1.63	0.64	333	0.075	296	0.25
GEO L26E 100N	13.7	32	19	2.3	< 0.01	< 0.5	1.2	0.21	34.7	3	< 0.3	< 1	9	0.03	6.94	1	< 2	1.58	1.72	0.52	271	0.025	291	0.11
GEO L26E 50N	16.8	38	16	2.9	< 0.01	< 0.5	1.6	0.12	36.2	14	< 0.3	< 1	9	< 0.01	6.28	1	< 2	1.82	1.81	0.63	351	0.040	315	0.23

Analyte Symbol	La	Ce	Nd	Sm	Sn	Tb	Yb	Lu	Mass	Cu	Cd	Mo	Pb	S	Al	Be	Bi	Ca	K	Mg	Mn	P	Sr	Ti
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	g	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	%	%	ppm	%	ppm	%
Detection Limit	0.5	3	5	0.1	0.01	0.5	0.2	0.05		1	0.3	1	3	0.01	0.01	1	2	0.01	0.01	0.01	1	0.001	1	0.01
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GEO L26E 0N	11.8	22	< 5	2.0	< 0.01	< 0.5	1.1	0.20	35.9	4	< 0.3	< 1	9	< 0.01	6.31	1	< 2	1.70	1.72	0.47	284	0.049	311	0.24
GEO L26E 50S	22.4	44	27	3.9	< 0.01	< 0.5	1.7	0.38	31.2	11	< 0.3	< 1	8	< 0.01	2.82	1	< 2	1.44	1.72	0.47	354	0.041	228	0.23
GEO L26E 100S	10.1	20	< 5	1.6	< 0.01	< 0.5	1.1	0.11	36.2	2	< 0.3	1	7	< 0.01	5.49	< 1	< 2	1.46	1.75	0.36	211	0.013	283	0.22
GEO L26E 150S	15.3	39	12	2.7	< 0.01	< 0.5	1.1	0.32	30.4	8	< 0.3	< 1	9	0.01	6.53	1	< 2	1.53	1.46	0.70	299	0.027	274	0.28

Analyte Symbol	V	Y
Unit Symbol	ppm	ppm
Detection Limit	2	1
Analysis Method	TD-ICP	TD-ICP
GEO L0E 50N	56	9
GEO L0E 0N	50	9
GEO L0E 50S	47	10
GEO L0E 100S	44	9
GEO L0E 150S	41	9
GEO L0E 200S	28	10
GEO L0E 250S	11	8
GEO L0E 300S	45	11
GEO L0E 350S	49	10
GEO L0E 400S	48	13
GEO L0E 450S	62	24
GEO L0E 500S	46	12
GEO L2E 150N	43	7
GEO L2E 100N	34	8
GEO L2E 50N	41	9
GEO L2E 0N	45	8
GEO L2E 50S	14	7
GEO L2E 100S	32	7
GEO L2E 150S	21	8
GEO L2E 200S	43	9
GEO L2E 250S	48	6
GEO L2E 300S	49	8
GEO L2E 350S	61	9
GEO L2E 400S	23	11
GEO L4E 200N	52	11
GEO L4E 150N	32	7
GEO L4E 100N	45	11
GEO L4E 50N	28	8
GEO L4E 0N	41	7
GEO L4E 50S	63	9
GEO L4E 100S	58	7
GEO L4E 150S	73	8
GEO L4E 200S	37	10
GEO L4E 250S	43	9
GEO L4E 300S	27	11
GEO L6E 200N	50	8
GEO L6E 150N	33	9
GEO L6E 100N	33	10
GEO L6E 50N	54	6
GEO L6E 0N	51	8
GEO L6E 50S	77	10
GEO L8E 300N	37	9
GEO L8E 250N	42	11
GEO L8E 200N	32	9
GEO L8E 150N	28	9
GEO L8E 100N	16	8
GEO L8E 50N	22	7
GEO L8E 0N	49	11
GEO L8E 50S	51	7
GEO L8E 100S	46	11
GEO L10E 350N	46	7
GEO L10E 300N	40	6

Analyte Symbol	V	Y
Unit Symbol	ppm	ppm
Detection Limit	2	1
Analysis Method	TD-ICP	TD-ICP
GEO L10E 250N	31	5
GEO L10E 200N	19	6
GEO L10E 150N	45	8
GEO L10E 100N	50	8
GEO L10E 50N	52	9
GEO L10E 0N	37	10
GEO L10E 50S	40	11
GEO L12E 350N	40	4
GEO L12E 300N	33	5
GEO L12E 250N	46	7
GEO L12E 200N	47	7
GEO L12E 150N	26	9
GEO L12E 100N	18	6
GEO L12E 50N	28	8
GEO L12E 0N	21	6
GEO L12E 50S	31	8
GEO L14E 350N	49	5
GEO L14E 300N	61	9
GEO L14E 250N	23	9
GEO L14E 200N	25	7
GEO L14E 150N	35	9
GEO L14E 100N	51	8
GEO L14E 50N	23	7
GEO L14E 0N	26	9
GEO L14E 50S	63	16
GEO L16E 400N	47	8
GEO L16E 350N	46	8
GEO L16E 300N	44	7
GEO L16E 250N	35	9
GEO L16E 200N	41	13
GEO L16E 150N	31	12
GEO L16E 100N	19	12
GEO L16E 50N	16	9
GEO L16E 0N	40	12
GEO L16E 50S	40	12
GEO L18E 450N	40	4
GEO L18E 400N	69	9
GEO L18E 350N	47	7
GEO L18E 300N	59	9
GEO L18E 250N	13	12
GEO L18E 200N	54	13
GEO L18E 150N	21	7
GEO L18E 100N	38	17
GEO L18E 50N	43	12
GEO L18E 0N	35	11
GEO L18E 50S	47	11
GEO L18E 100S	57	13
GEO L20E 450N	57	8
GEO L20E 400N	56	8
GEO L20E 350N	40	8
GEO L20E 300N	15	9
GEO L20E 250N	24	17

Analyte Symbol	V	Y
Unit Symbol	ppm	ppm
Detection Limit	2	1
Analysis Method	TD-ICP	TD-ICP
GEO L20E 200N	17	8
GEO L20E 150N	40	4
GEO L20E 100N	75	15
GEO L20E 50N	35	9
GEO L20E 0N	36	10
GEO L20E 50S	34	9
GEO L20E 100S	48	14
GEO L20E 150S	54	15
GEO L22E 550N	63	12
GEO L22E 500N	66	11
GEO L22E 450N	52	7
GEO L22E 400N	80	9
GEO L22E 350N	98	6
GEO L22E 300N	61	9
GEO L22E 250N	40	8
GEO L22E 200N	56	9
GEO L22E 150N	25	10
GEO L22E 100N	45	9
GEO L22E 50N	45	10
GEO L22E 0N	54	10
GEO L22E 50S	43	8
GEO L22E 100S	59	9
GEO L22E 150S	40	6
GEO L22E 200S	39	8
GEO L22E 250S	46	10
GEO L24E 550N	38	8
GEO L24E 500N	47	13
GEO L24E 450N	63	10
GEO L24E 400N	33	10
GEO L24E 350N	60	23
GEO L24E 300N	17	9
GEO L24E 250N	32	10
GEO L24E 200N	53	8
GEO L24E 150N	65	9
GEO L24E 100N	57	10
GEO L24E 50N	44	11
GEO L24E 0N	77	12
GEO L24E 50S	66	15
GEO L24E 100S	25	9
GEO L24E 150S	86	11
GEO L24E 200S	29	11
GEO L24E 250S	18	8
GEO L26E 500N	47	5
GEO L26E 450N	39	9
GEO L26E 400N	60	13
GEO L26E 350N	45	11
GEO L26E 300N	38	10
GEO L26E 250N	35	11
GEO L26E 200N	49	9
GEO L26E 150N	63	10
GEO L26E 100N	30	9
GEO L26E 50N	54	11

Analyte Symbol	V	Y
Unit Symbol	ppm	ppm
Detection Limit	2	1
Analysis Method	TD-ICP	TD-ICP
GEO L26E 0N	50	8
GEO L26E 50S	50	6
GEO L26E 100S	46	6
GEO L26E 150S	58	9

Quality Control

Analyte Symbol	Au	Zn	As	Ba	Co	Cr	Fe	Na	Sc	U	W	La	Ce	Sm	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	Be
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
Detection Limit	2	50	0.5	50	1	2	0.01	0.01	0.1	0.5	1	0.5	3	0.1	0.3	1	0.3	1	3	1	1	0.01	0.01	1
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas															29.4	1260	3.3	16	693	41	714	0.25	2.24	1
GXR-1 Cert															31.0	1110	3.30	18.0	730	41.0	760	0.257	3.52	1.22
DNC-1 Meas															< 0.3	108		< 1	< 3	245	53	0.05	9.60	< 1
DNC-1 Cert															0.0270	96.0		0.700	6.30	247	66.0	0.0390	9.69	1.00
GXR-4 Meas															3.2	6370	0.7	313	41	44	65	1.79	6.21	2
GXR-4 Cert															4.00	6520	0.860	310	52.0	42.0	73.0	1.77	7.20	1.90
GXR-2 Meas															19.4	93	4.5	1	739	21	570	0.03	11.4	2
GXR-2 Cert															17.0	76.0	4.10	2.10	690	21.0	530	0.0313	16.5	1.70
SDC-1 Meas															< 0.3	31	< 0.3	< 1	20	36	99	0.06	8.34	3
SDC-1 Cert															0.0410	30.0	0.0800	0.250	25.0	38.0	103	0.0650	8.34	3.00
SCO-1 Meas															< 0.3	29	< 0.3	1	26	28	95		7.21	2
SCO-1 Cert															0.134	28.7	0.140	1.37	31.0	27.0	103		7.24	1.84
GXR-6 Meas															0.4	71	0.7	< 1	89	29	124	0.01	13.6	1
GXR-6 Cert															1.30	66.0	1.00	2.40	101	27.0	118	0.0160	17.7	1.40
OREAS 13P Meas																2740				2100				
OREAS 13P Cert																2500				2260				
DMMAS 109 Meas	485	220	2540	620	63	163	6.98	0.83	15.9	35.2	13	15.4	32	3.1										
DMMAS 109 Cert	458.3	223	2434	573	64.9	156.3	6.8	0.7	15.3	32.1	15.4	15.2	24.5	2.7										
GEO L2E 150N Orig															< 0.3	2	< 0.3	1	9	17	21	< 0.01	6.28	1
GEO L2E 150N Dup															< 0.3	2	< 0.3	< 1	11	17	18	< 0.01	6.32	1
GEO L4E 100N Orig															< 0.3	8	< 0.3	< 1	9	19	26	< 0.01	6.08	1
GEO L4E 100N Dup															< 0.3	8	< 0.3	< 1	11	22	29	0.01	6.98	1
GEO L8E 0N Orig															< 0.3	15	< 0.3	< 1	7	23	28	< 0.01	5.96	1
GEO L8E 0N Dup															< 0.3	13	< 0.3	< 1	7	21	25	< 0.01	5.60	1
GEO L12E 250N Orig															< 0.3	3	< 0.3	< 1	10	13	16	< 0.01	5.78	1
GEO L12E 250N Dup															< 0.3	2	< 0.3	< 1	9	14	16	< 0.01	5.92	1
GEO L16E 150N Orig															< 0.3	11	< 0.3	< 1	12	29	34	0.01	6.45	1
GEO L16E 150N Dup															< 0.3	10	< 0.3	< 1	11	28	32	0.01	6.53	1
GEO L18E 0N Orig															< 0.3	9	< 0.3	< 1	9	20	24	< 0.01	5.86	1
GEO L18E 0N Dup															< 0.3	9	< 0.3	< 1	8	20	27	< 0.01	6.02	1
GEO L22E 300N Orig															0.3	6	< 0.3	2	8	31	32	0.02	4.09	1
GEO L22E 300N Dup															< 0.3	6	< 0.3	< 1	10	33	39	0.03	7.54	1
GEO L24E 450N Orig															< 0.3	7	0.3	< 1	10	29	35	0.02	7.04	1
GEO L24E 450N Dup															< 0.3	12	< 0.3	< 1	8	31	34	0.02	7.14	1
GEO L24E 200S Orig															< 0.3	6	< 0.3	< 1	9	29	28	0.02	6.60	1
GEO L24E 200S Dup															< 0.3	6	< 0.3	< 1	10	27	27	0.02	6.48	1
Method Blank Method Blank															< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1
Method Blank Method Blank															< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	0.02	< 1
Method Blank Method Blank															< 0.3	< 1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1
Method Blank Method Blank															< 0.3	1	< 0.3	< 1	< 3	< 1	< 1	< 0.01	< 0.01	< 1

Quality Control

Analyte Symbol	Bi	Ca	K	Mg	Mn	P	Sr	Ti	V	Y
Unit Symbol	ppm	%	%	%	ppm	%	ppm	%	ppm	ppm
Detection Limit	2	0.01	0.01	0.01	1	0.001	1	0.01	2	1
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	1390	0.90	0.04	0.21	873	0.062	297		95	31
GXR-1 Cert	1380	0.960	0.0500	0.217	852	0.0650	275		80.0	32.0
DNC-1 Meas	< 2	7.84	0.20	5.95	1050	0.028	133	0.30	161	17
DNC-1 Cert	0.0200	8.06	0.190	6.06	1150	0.0370	145	0.287	148	18.0
GXR-4 Meas	11	1.06	2.46	1.66	144	0.134	202		94	14
GXR-4 Cert	19.0	1.01	4.01	1.66	155	0.120	221		87.0	14.0
GXR-2 Meas	< 2	0.99	1.33	0.81	1090	0.069	154		66	18
GXR-2 Cert	0.690	0.930	1.37	0.850	1010	0.105	160		52.0	17.0
SDC-1 Meas	< 2	1.16	2.77	1.06	887	0.058	178	0.10	36	37
SDC-1 Cert	2.60	1.00	2.72	1.02	883	0.0690	183	0.606	102	40.0
SCO-1 Meas	< 2	2.06	2.38	1.64	379	0.080	164	0.19	112	21
SCO-1 Cert	0.370	1.87	2.30	1.64	410	0.0900	174	0.380	131	26.0
GXR-6 Meas	< 2	0.21	1.83	0.63	1020	0.034	43		103	14
GXR-6 Cert	0.290	0.180	1.87	0.609	1010	0.0350	35.0		186	14.0
OREAS 13P Meas										
OREAS 13P Cert										
DMMAS 109 Meas										
DMMAS 109 Cert										
GEO L2E 150N Orig	< 2	1.66	1.81	0.43	225	0.043	305	0.19	43	7
GEO L2E 150N Dup	< 2	1.67	1.78	0.43	212	0.044	306	0.18	43	7
GEO L4E 100N Orig	< 2	1.95	1.84	0.53	312	0.041	326	0.20	43	10
GEO L4E 100N Dup	< 2	2.20	2.14	0.61	350	0.047	375	0.22	46	12
GEO L8E 0N Orig	< 2	3.88	1.89	1.13	382	0.056	301	0.23	50	12
GEO L8E 0N Dup	< 2	3.72	1.77	1.07	352	0.054	286	0.23	47	11
GEO L12E 250N Orig	< 2	1.51	1.67	0.36	229	0.046	282	0.21	46	7
GEO L12E 250N Dup	< 2	1.54	1.69	0.37	216	0.045	291	0.21	46	7
GEO L16E 150N Orig	< 2	1.79	2.02	0.72	347	0.036	295	0.16	37	13
GEO L16E 150N Dup	< 2	1.82	2.04	0.73	350	0.035	296	0.10	26	12
GEO L18E 0N Orig	< 2	3.10	1.91	0.98	307	0.044	298	0.11	29	11
GEO L18E 0N Dup	< 2	3.16	1.95	1.00	304	0.051	302	0.18	41	11
GEO L22E 300N Orig	< 2	1.34	1.44	0.54	311	0.055	234	0.30	67	7
GEO L22E 300N Dup	< 2	1.87	1.83	0.70	359	0.067	319	0.24	56	10
GEO L24E 450N Orig	< 2	1.83	1.74	0.65	356	0.058	311	0.23	57	10
GEO L24E 450N Dup	< 2	1.88	1.74	0.66	352	0.059	325	0.30	70	10
GEO L24E 200S Orig	< 2	1.83	1.60	0.63	411	0.038	293	0.09	27	11
GEO L24E 200S Dup	< 2	1.75	1.56	0.60	384	0.031	287	0.10	31	10
Method Blank Method Blank	< 2	< 0.01	< 0.01	< 0.01	4	< 0.001	< 1	< 0.01	< 2	< 1
Method Blank Method Blank	< 2	< 0.01	< 0.01	< 0.01	< 1	< 0.001	< 1	< 0.01	< 2	< 1
Method Blank Method Blank	< 2	< 0.01	< 0.01	< 0.01	5	< 0.001	< 1	< 0.01	< 2	< 1
Method Blank Method Blank	< 2	< 0.01	< 0.01	< 0.01	1	< 0.001	< 1	< 0.01	< 2	< 1

APPENDIX C GEOCHEMICAL SURVEY INTERPRETATION REPORTS

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SOIL GAS HYDROCARBON (SGH) GEOCHEMISTRY - OVERVIEW

SGH is a deep penetrating geochemistry that involves the analysis of surficial samples from over potential mineral or petroleum targets. The analysis involves the testing for 162 hydrocarbon compounds in the C5-C17 carbon series range applicable to a wide variety of sample types. SGH has been successful for delineating targets found at over 500 metres in depth. Samples of various media have been successfully analyzed such as soil (any horizon), drill core, rock, peat, lake-bottom sediments and even snow. The SGH analysis incorporates a very weak leach, essentially aqueous, that only extracts the surficial bound hydrocarbon compounds and those compounds in interstitial spaces around the sample particles. These are the hydrocarbons that have been mobilized from the target depth. SGH is unique and should not be confused with other hydrocarbon tests or traditional analyses that measure C1 (Methane) to C5 (Pentane) or other gases. SGH is also different from soil hydrocarbon tests that thermally extract or desorb all of the hydrocarbons from the whole soil sample. This test is less specific as it does not separate the hydrocarbons and thus does not identify or measure the responses as precisely. These tests also do not use a forensic approach to identification. The hydrocarbons in the SGH extract are separated by high resolution capillary column gas chromatography to isolate, confirm, and measure the presence of only the individual hydrocarbons that have been found to be of interest from initial research and development and from performance testing in two Canadian Mining Industry Research Organization (CAMIRO) projects (97E04 and 01E02).

Over the past 13+ years of research, Activation Laboratories Ltd. has developed an in-depth understanding of the unique SGH signatures associated with different commodity targets. Using a forensic approach we have developed target signatures or templates for identification, and the understanding of the expected geochromatography that is exhibited by each class of SGH compounds. In 2004 we began to include an SGH interpretation report delivered with the data to enable our clients to realize the complete value and understanding of the SGH results in the shortest time frame and provide the benefit from past research sponsored by Actlabs, CAMIRO, OMET and other projects.

SGH has attracted the attention of a large number of Exploration companies. In the above mentioned research projects the sponsors have included (in no order): Western Mining Corporation, BHP-Billiton, Inco, Noranda, Outokumpu, Xstrata, Cameco, Cominco, Rio Algom, Alberta Geological Survey, Ontario Geological Survey, Manitoba Geological Survey and OMET. Further, beyond this research, Activation Laboratories Ltd. has interpreted the SGH data for over 400 targets from clients since January of 2004. In both CAMIRO research projects over known mineralization and in exploration projects over unknown targets, SGH has performed exceptionally well. As an example, in the first CAMIRO research project that commenced in 1997 (Project 97E04), there were 10 study areas that were submitted blindly to Actlabs. These study sites were selected since other inorganic geochemistries were unsuccessful at illustrating anomalies related to the target.

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SOIL GAS HYDROCARBONS (SGH) GEOCHEMISTRY – OVERVIEW

Although Actlabs was only provided with the samples and their coordinates, SGH was able to locate the blind mineralization with exceptional accuracy in 9 of the 10 surveys. SGH has recently been very successful in exploration and discovery of unknown targets e.g. Golden Band Resources drilled an SGH anomaly and discovered a significant vein containing "visible" gold. (www.goldenbandresources.com)

Sample Type and Survey Design: It is highly recommended that a ***minimum*** of 50 sample "locations" is preferred to obtain enough samples into background areas on both sides of small suspected targets (wet gas plays, Kimberlite pipes, Uranium Breccia pipes, veins, etc.). SGH is not interpreted in the same way as inorganic based geochemistries. SGH must have enough samples over both the target and background areas in order to fully study the dispersion patterns or geochromatography of the SGH classes of compounds. Based on our minimum recommendation of at least 50 sample locations we further suggest that all samples be evenly spaced with about one-third of the samples over the target and one-third on each side of the target in order for SGH to be used for exploration. Targets other than gas plays, pipes, dykes or veins usually require additional samples to represent both the target and background areas.

SGH has been shown to be very robust to the use of different sample types even "within" the same survey or transect. Research has illustrated that it is far more important to the ultimate interpretation of the results to take a complete sample transect or grid than to skip samples due to different sample media. The most ideal natural sample is still believed to be soil from the "Upper B-Horizon", however excellent results can also be obtained from other soil horizons, humus, peat, lake-bottom sediments, and even snow. The sampling design is suggested to use evenly spaced samples from 15 metres to 200 metres and line spacing from 50 metres to 500 metres depending on the size and type of target. A 4:1 ratio is suggested, however, larger orientation surveys have also been successful. Ideally even large grids should have one-third of the samples over the target and two-thirds of the samples into anticipated background areas. This will allow the proper assessment of the SGH geochromatographic vectoring and background site signature levels with minimal bias. Individual samples taken at significant distances from the main survey area to represent background are not of value in the SGH interpretation as SGH results are not background subtracted. Samples can be drip dried in the field and do not need special preservation for shipping and has been specifically designed to avoid common contaminants from sample handling and shipping. SGH has also been shown to be robust to cultural activities even to the point that successful results and interpretation has been obtained from roadside right-of-ways.

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SOIL GAS HYDROCARBONS (SGH) GEOCHEMISTRY – OVERVIEW

Sample Preparation and Analysis: Upon receipt at Activation Laboratories the samples are air-dried in isolated and dedicated environmentally controlled rooms set to 40°C. The dried samples are then sieved. In the sieving process, it is important that compressed air is not used to clean the sieves between samples as trace amounts of compressor oils "may" poison the samples and significantly affect some target signatures. At Activation Laboratories a vacuum is used to clean the sieve between each sample. The -60 mesh sieve fraction (<250 microns, although different mesh sizes can be used at the preference of the exploration geologist) is collected and packaged in a Kraft paper envelope and transported from our sample preparation building to our analytical building on the same street in Ancaster Ontario. Each sample is then extracted, separated by gas chromatography and analyzed by mass spectrometry using customized parameters enabling the highly specific detection of the 162 targeted hydrocarbons at a reporting limit of one part-per-trillion (ppt). This trace level limit of reporting is critical to the detection of these hydrocarbons that, through research, have been found to be related at least in part to the breakdown and release of hydrocarbons from the death phase of microbes directly interacting with a deposit at depth. The hydrocarbon signatures are directly linked to the deposit type which is used as a food source. The hydrocarbons that are mobilized and metabolized by the microbes are released in the death phase of each successive generation. Very few of the hydrocarbons measured are actually due to microbe cell structure, or hydrocarbons present or formed in the genesis of the deposit or from anthropogenic contamination. The results of the SGH analysis is reported in raw data form in an Excel spreadsheet as "semi-quantitative" concentrations without any additional statistical modification.

Mobilized Inorganic Geochemical Anomalies: It is important to note that SGH is essentially "blind" to any inorganic content in samples as only organic compounds as hydrocarbons are measured. Thus inorganic geochemical surface anomalies that have migrated away from the mineral source, and thus may be interpreted and found to be a false target location, is not detected and does not affect SGH results. This fact is of great advantage when comparing the SGH results to inorganic geochemical results. If there is agreement in the location of the anomalies between the organic an inorganic technique, such as Actlabs' Enzyme Leach, a significant increase in confidence in the target location can be realized. If there is no agreement or a shift in the location of the anomalies between the techniques, the inorganic anomaly may have been mobilized in the surficial environment.

The Nugget Effect: As SGH is "blind" to the inorganic content in the survey samples, any concern of a "nugget effect" will not be encountered with SGH data. A "nugget effect" may be of a concern for inorganic geochemistries from surveys over copper, gold, lead, nickel, etc. type targets.

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SOIL GAS HYDROCARBONS (SGH) GEOCHEMISTRY – OVERVIEW

SGH Interpretation Report: All SGH submissions must be accompanied by relative or UTM coordinates so that we may ensure that the sample survey design is appropriate for use with SGH, and to provide an SGH interpretation with the results. In our interpretation procedure, we separate the results into 19 SGH sub-classes. These classes include specific alkanes, alkenes, thiophenes, aromatic, and polyaromatic compounds. Note that none of the SGH hydrocarbons are "gaseous" at room temperature and pressure. The classes are then evaluated in terms of their geochromatography and for coincident compound class anomalies that are unique to different types of mineralization. Actlabs uses a six point scale in assigning a subjective rating of similarity of the SGH signatures found in the submitted survey to signatures previously reviewed and researched from known case studies over the same commodity type. Also factored into this rating is the appropriateness of the survey and amount of data/sample locations that is available for interpretation. This rating scale is described in detail in the following section.

SGH RATING SYSTEM

To date SGH has been found to be successful in the depiction of buried mineralization for Gold, Nickel, VMS, SEDEX, Uranium, Polymetallic, and Copper, as well as for Kimberlites. SGH data has developed into a dual exploration tool. From the interpretation, a vertical projection of the predicted location of the target can be made as well as a statement on the rating of the comparability of the identification of the anticipated target type to that from known case studies, e.g. if the client anticipates the target to be a Gold deposit, what is the rating or comparability that the target is similar to the SGH results over a Gold deposit in Nunavut, shear hosted as well as sediment hosted deposits in Nevada, Paleochannel Gold mineralization in Western Australia.

- A rating of "6" is the highest or best rating, and means that the SGH classes most important to describing a Gold related hydrocarbon signature are all present and consistently vector to the same location with well defined anomalies. To obtain this rating there also needs to be other SGH classes that when mapped lend support to the predicted location.
- A rating of "5" means that the SGH classes most important to describing a Gold signature are all present and consistently describe the same location with well defined anomalies. The SGH signatures may not be strong enough to also develop additional supporting classes.
- A rating of "4" means that the SGH classes most important to describing a Gold signature are mostly present describing the location with well defined anomalies. Supporting classes may also be present.

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SGH RATING SYSTEM (continued)

- A rating of "3" means that the SGH classes most important to describing a Gold signature are mostly present and describe the same location with fairly well defined anomalies. Some supporting classes may or may not be present.
- A rating of "2" means that some of the SGH classes most important to describing a Gold signature are present but a predicted location is difficult to determine. Some supporting classes may be present
- A rating of "1" is the lowest rating, and means that one of the SGH classes most important to describing a Gold signature is present but a predicted location is difficult to determine. Supporting classes are also not helpful.
- The SGH rating is directly and significantly affected by the survey design. Small data sets, especially if significantly <50 sample locations, or transects/surveys that are geographically too short will automatically receive a lower rating no matter how impressive an SGH anomaly might be. When there is not enough sample locations to adequately review the SGH class geochromatography, or when the sample spacing is inadequate, or if the spacing is highly variable such that it biases the interpretation of the results, then the confidence in the interpretation of any geochemistry is adversely affected. The SGH rating is not just a rating of the agreement between the SGH pathfinder classes for a particular target type; it is a rating of the overall confidence in the SGH results from this particular survey. The interpretation is only based on the SGH results without any information from other geochemical, geological or geophysical information unless otherwise specified.

SGH DATA QUALITY

- **Reporting Limit:** The SGH Excel spreadsheet of results contains the raw unaltered concentrations of the individual SGH compounds in units of "part-per-trillion" (ppt). The reporting of these ultra low levels is vital to the measurement of the small amounts of hydrocarbons now known to be leached/metabolized and subsequently released by dead bacteria that have been interacting with the ore at depth. To ensure that the data has a high level of confidence, a "reporting limit" is used. The reporting limit of 1 ppt actually represents a level of confidence of approximately 5 standard deviations where SGH data is assured to be "real" and non-zero. Thus in SGH the use of a reporting limit automatically removes site variability and there is no need to further background subtract any data as the reporting limit has already filtered out any site background effects. Thus we recommend that all data that is equal to or greater than 2 ppt should be used in any data review. It is important to review all SGH data as low values that may be the centre of halo anomalies and higher values as apical anomalies or as halo ridges are all important.

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SGH DATA QUALITY (continued)

- **Laboratory Replicate Analysis:** A laboratory replicate is a sample taken randomly from the submitted survey being analyzed and are not unrelated samples taken from some large stockpile of bulk material. In the Organics laboratory an equal portion of this sieved sample, or pulp, is taken and analyzed in the same manner using the Gas Chromatography/Mass Spectrometer. The comparison of laboratory replicate and field duplicate results for chemical tests in the parts-per-million or even parts-per-billion range has typically been done using an absolute "relative percent difference (RPD)" statistic which is an easy proxy for error estimation rather than a more complete analysis of precision as specified by Thompson and Howarth. An RPD statistic is not appropriate for SGH results as the reporting limit for SGH is 1 part-per-trillion. Further, SGH is a semi-quantitative technique and was not designed to have the same level of precision as other less sensitive geochemistries as it is only used as an exploration tool and not for any assay work. SGH is also designed to cover a wide range of organic compounds with an unprecedented 162 compounds being measured for each sample. In order to analyze such a wide molecular weight range of compounds, sacrifices were made to the variability especially in the low molecular weight range of the SGH analysis. The result is that the first fifteen SGH compounds in the Excel spreadsheet is expected to exhibit more imprecision than the other 147 compounds. An SGH laboratory replicate is a large set of data for comparison even for just a few pairs of analyses. Precision calculations using a Thompson and Howarth approach should only be used for estimating error in individual measurements, and not for describing the average error in a larger data set. In geochemical exploration geochemists seek concentration patterns to interpret and thus rigorous precision in individual samples is not required because the concentrations of many samples are interpreted collectively. For these reasons recent and independent research at Acadia University in Canada promote that a percent Coefficient of Variation (%CV) should be used as a universal measurement of relative error in all geochemical applications. As SGH results are a relatively large data set for nearly all submissions, %CV is a better statistic for use with SGH. By using %CV, the concentration of duplicate pairs is irrelevant because the units of concentration cancel out in the formation of the coefficient of variation ratio. For SGH, the %CV is calculated on all values ≥ 2 ppt. These values are averaged and represent a value for each pair of replicate analysis of the sample. All of the %CV values for the replicates are then averaged to report one %CV value to represent the overall estimate of the relative error in the laboratory sub-sampling from the prepared samples, and any instrumental variability, in the SGH data set for the survey. Actlabs' has successfully addressed the analytical challenge to minimize analytical variability for such a large list of compounds. Thus as SGH is also interpreted as a signature and is solely used for exploration and not assay measurement, the data from SGH is **"fit for purpose"** as a geochemical exploration tool.

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SGH DATA QUALITY (continued)

- **Historical SGH Precision:** In the general history of geochemistry, studies indicate that a large component of total measurement error is introduced during the collection of the initial sample and in sub-sampling, and that only a subordinate amount of error in the result is introduced during preparation and analysis. A historical record encompassing many projects for SGH, having a wide variety of sample types, geology and geography, shows that the consistency and precision for the analysis of SGH is excellent with an overall precision of 6.6% Coefficient of Variation (%CV). When last calculated, this number has a range having a maximum of 10% CV and a minimum of 3% CV in a population made up of a total of some 400 targets interpreted since June of 2004 which has encompassed a wide variety of sample types as soils, peat, etc. in over 32,000 samples. When field duplicates have been revealed to us, we have found that the precision of the field duplicates are in the range of about 9 to 12 %CV. As SGH is interpreted using a combination of compounds as a chemical "class" or signature, the affect of a few concentrations that may be imprecise in a direct comparison of duplicates is not significant. Further, projects that have been re-sampled at different times or seasons are expected to have different SGH concentrations. The SGH anomalies may not be in exactly the same position or of the same intensity due to variable conditions that may have affected the dispersion of different pathfinder classes. However, the SGH "signature" as to the presence of the specific mix of SGH pathfinder classes will definitely still exist, and will retain the ability to identify the deposit type and vector to the same target location.

- **LABORATORY MATERIALS BLANK – QUALITY ASSURANCE (LMB-QA):**

  The Laboratory Materials Blank Quality Assurance measurements (LMB-QA) shown in the SGH spreadsheet of results are matrix free blanks analyzed for SGH. These blanks are not standard laboratory blanks as they do not accurately reflect an amount expected to be from laboratory handling or laboratory conditions that may be present and affect the sample analysis result. The LMB-QA measurements are a pre-warning system to only detect any contamination originating from laboratory glassware, vials or caps. As there is no substrate to emulate the sample matrix, the full solvating power of the SGH leaching solution, effectively a water leach, is fully directed at the small surface area of the glassware, vials or caps. In a sample analysis the solvating power of the SGH leaching solution is distributed between the large sample surface area (from soil, humus, sediments, peat, till, etc.) and the relatively small contribution from the laboratory materials surfaces. The sample matrix also buffers the solvating or leaching effect in the sample versus the more vigourous leaching of the laboratory materials which do not experience this buffering effect. Thus the level of the LMB-QA reported is biased high relative to the sample concentration and the

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SGH DATA QUALITY (continued)

LABORATORY MATERIALS BLANK – QUALITY ASSURANCE (LMB-QA): (cont.)

actual contribution of the laboratory reagents, equipment, handling, etc. to the values in samples is significantly lower. This situation in organic laboratory analysis only occurs at such extremely low part-per-trillion (ppt) measurement levels. This is one of the reasons that SGH uses a reporting limit and not a detection limit. The 1 ppt reporting limit used in the SGH spreadsheet of raw concentration data is 3 to 5 times greater than a detection limit. The reporting limit automatically filters out analytical noise, the actual LMB-QA, and most of the sample survey site background. This has been proven as SGH values of 1 to 3 parts-per-trillion (ppt) have very often illustrated the outline of anomalies directly related to mineral targets. Thus all SGH values greater than or equal to 1 or 2 ppt should be used as reliable values for interpretations.

The LMB-QA values thus should not be used to background subtract any SGH data. The LMB-QA values are only an early warning as a quality assurance procedure to indicate the relative cleanliness of laboratory glassware, vials, caps, and the laboratory water supply at the ppt concentration level. Do not subtract the LMB-QA values from SGH sample data.

EVALUATION OF SGH RESULTS – A09-6505
GOLDEN CHALICE RESOURCES – PENHORWOOD - TIMMINS WEST PROJECT

- This report is based on the SGH results from the analysis of a total of 160 soil samples from the Penhorwood Property-Timmins West Project. This project area is comprised of 14 parallel North-South trending transects of varying lengths having from 6 to 17 samples. The samples are spaced approximately 50 metres apart. UTM coordinates were provided for mapping of the SGH results for these soil samples.
- The number of samples submitted for this project is adequate to use SGH as an exploration tool. Note that the SGH data is only reviewed for the particular target deposit type requested, in this case for the presence of a Gold or VMS type deposit. It is also assumed that there is only one potential target. To obtain the best interpretation the client should indicate if there are possible multiple targets, say from geophysical data. The possibility of multiple targets should be known due to potential overlap and increased complexity of resulting geochromatographic anomalies which could alter the interpretation.
- Note that the associated SGH results are presented in a separate Excel spreadsheet. This raw data is semi-quantitative and is presented in units of pg/g or parts-per-trillion (ppt).

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EVALUATION OF SGH RESULTS – A09-6505
GOLDEN CHALICE RESOURCES – PENHORWOOD - TIMMINS WEST PROJECT

- **The overall precision of the SGH analysis for these samples at the Penhorwood-Timmins West project was excellent** as demonstrated by 11 samples taken from this survey which were used for laboratory replicate analysis. The average Coefficient of Variation (%CV) of this replicate result for this project samples in this submission was 7.5% which represents an excellent level of analytical performance.

- SGH has been described by the Ontario Geological Survey (OGS) as a "REDOX cell locator". Many SGH surveys for Gold and other mineral targets can result in multiple anomalies depending on the class of SGH compounds used even over the same target. Thus "Apical", "Nested-Halo" and "Rabbit-Ear" or "Halo" type anomalies are all typically observed from the effect of REDOX cells that have developed over deposits. REDOX cells are also related to bacteriological activity.

- All maps shown in this report are SGH "Pathfinder Class maps". These maps represent the simple summation of several individual compound concentrations for hydrocarbon compounds grouped from within the same chemical class. These maps can thus be reviewed with a higher degree of confidence as they represent the results of data from many individual measurements. A legend of the compound classes appears at the bottom of the SGH data spreadsheet.

- The SGH class maps have been shown to be robust as they are each described using from 4 to 14 chemically related SGH compounds which are simply summed to create each class map. Thus each map has a high level of confidence as it is not illustrating just one compound response. The overall SGH interpretation has a higher level of confidence as it further relies on the consensus between at least two additional pathfinder classes (not shown) that are also specific to Gold type targets.

- The client should use a combination of these SGH results and its report with additional geochemical, geophysical, and geological information to possibly obtain a more confident and precise target location.

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EVALUATION OF SGH RESULTS – A09-6505
GOLDEN CHALICE RESOURCES – PENHORWOOD - TIMMINS WEST PROJECT

- The Gold template of SGH Pathfinder Classes uses low and medium weight classes of hydrocarbon compounds. At least three Pathfinder Class maps, associated with the SGH signature for Gold, must be present to begin to be considered for assignment of a good rating. The Pathfinder Class anomalies must also concur and support a consistent interpretation, in relation to the expected geochromatographic characteristics of the Pathfinder Class, for a specific area. This general Gold template has been shown to be applicable to epithermal, porphyry and other types of gold deposits. The Pathfinder Class map on page 12 is one of the most diagnostic for the presence of gold based mineralization.

- The outer dotted black irregularly shaped oval applied to the SGH Pathfinder Class map on page 12, is the area that the SGH data predicts is the outer boundary of an East-West trending REDOX cell. Several other SGH Pathfinder Class maps (not shown in this report) also agree on this REDOX cell boundary. This particular map shows a weak apical anomaly between two larger anomalies on most transects and thus defines nested halo anomalies if each sample line were considered separately. These small "nested" central apical anomalies represent the centre and strongest area of the REDOX cell. These apical anomalies have been linked within a narrow dashed black oval, which represents the location that SGH predicts to be the best drill target. This map also illustrates that the sampling lines were generally too short to observe the complete REDOX cell edge anomalies as is observed in the centre sample lines where SGH predicts the mineralization to be narrower. The shorter than recommended sample lines has reduced the rating applied below.

- After review of all of the SGH Pathfinder Class maps, the SGH results from these soil samples, suggest a **"rating of 5.5"** within the dotted black oval interpretation on the plan view map on page 12, in relation to the presence of a Gold based target beneath this area at the Penhorwood Property – Timmins West project area. This rating is based on a scale of 6, with a value of 6 being the best. This rating represents the similarity of these SGH results and the developed Pathfinder Class maps, primarily to case studies for Gold in Nunavut, shear hosted as well as sediment hosted deposits in Nevada, and Paleochannel Gold deposits in Australia. The degree of confidence in the rating only starts to be "good" at a level of 4.0.

- The interpretation, based only on of these SGH results, indicates that there may be an East-West, gold based mineralized corridor across these transects, at the Penhorwood Property – Timmins West project.

- The client should use a combination of these SGH results and its report with additional geochemical, geophysical, and geological information to possibly obtain a more confident and precise target location.

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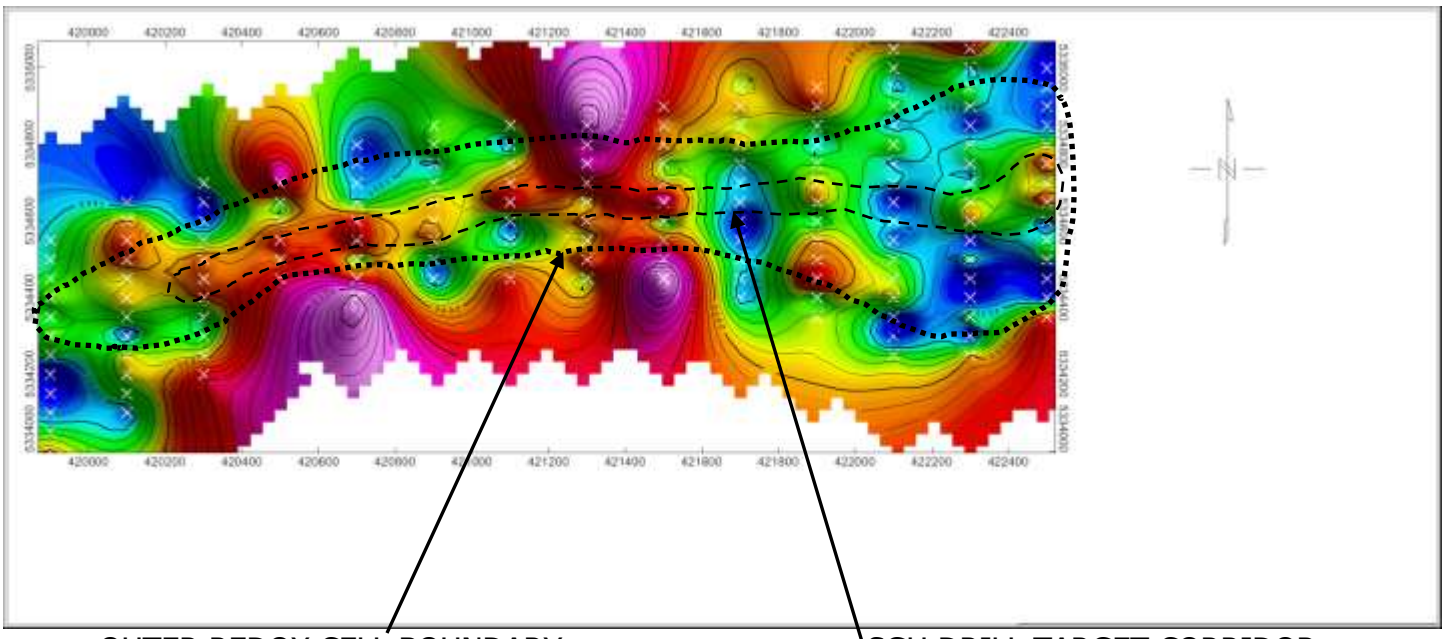
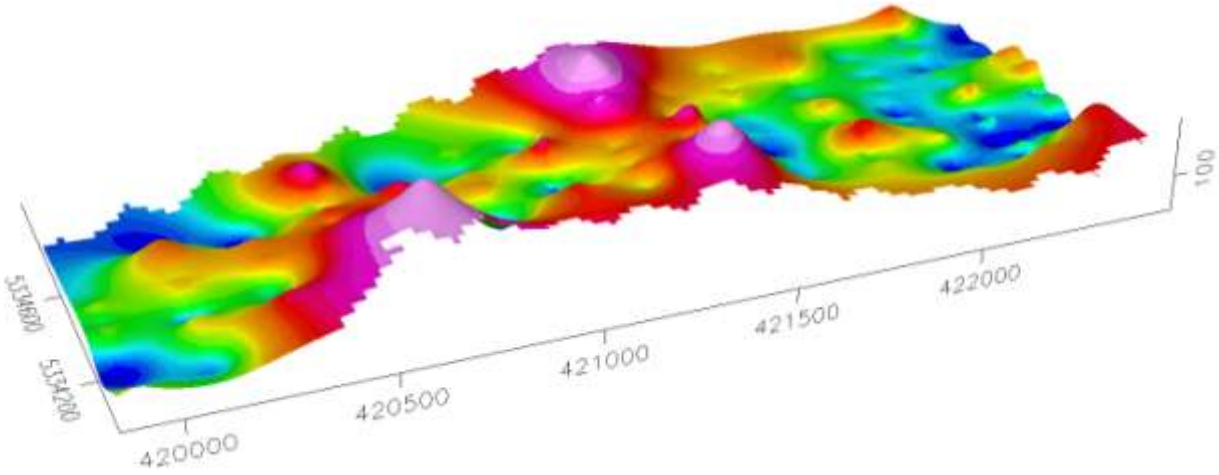
EVALUATION OF SGH RESULTS – A09-6505
GOLDEN CHALICE RESOURCES – PENHORWOOD - TIMMINS WEST PROJECT

SGH GOLD PATHFINDER CLASS MAP





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EVALUATION OF SGH RESULTS – A09-6505
GOLDEN CHALICE RESOURCES – PENHORWOOD - TIMMINS WEST PROJECT

- The Base Metal or VMS template of SGH Pathfinder Classes uses medium weight classes of hydrocarbon compounds. At least three SGH Pathfinder Class maps, associated with the SGH signature for Base Metals, must be present to begin to be considered for assignment of a good rating. The Pathfinder Class anomalies must also concur and support a consistent interpretation, in relation to the expected geochromatographic characteristics of the Pathfinder Class, for a specific area. The Pathfinder Class map on page 14 is one of the most diagnostic for the presence of Base Metal or VMS type mineralization.

- At the Penhorwood Property – Timmins West project area the SGH VMS type signature is difficult to separate from the SGH Gold signature. The black irregularly shaped ovals applied to the SGH Gold Pathfinder Class map on page 12 are similarly applied in the same location on the SGH VMS Pathfinder Class map on page 14. Again, this is where the SGH data predicts is the outer boundary of an East-West trending REDOX cell, and the central area of weak apical anomalies have the support of several other SGH Pathfinder Class maps (not shown in this report). This map again illustrates that the sampling lines were generally too short to observe the complete REDOX cell edge anomalies. As the SGH VHS Pathfinder Classes are generally slightly heavier than those for Gold, it is expected that this compound class would disperse to a slightly greater distance away from the target. This is observed on the map on page 14 as a lack of detection of the expected stronger REDOX cell edge anomalies at the ends of the sampling lines as they may have dispersed to a greater distance from the target. This Pathfinder Class map tends to indicate a potential for a stronger presence, or higher weighting, of Base Metal mineralization at the west end of the REDOX cell corridor as illustrated within the yellow dot-and-dashed oval area.

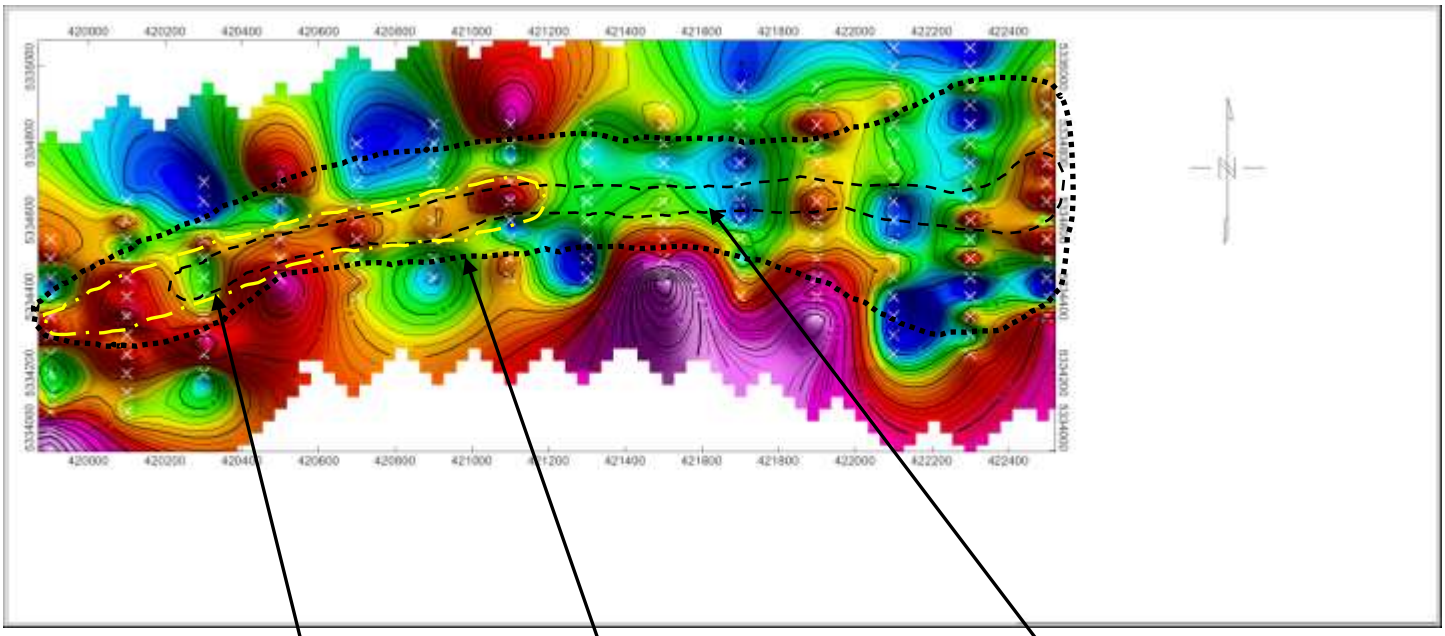
- After review of the SGH pathfinder class maps, the SGH results suggest a **"rating of 4.5"** within the yellow dot-and-dashed oval drawn on the map on page 14 in relation to the presence of a Base Metal or VMS based target. This rating is based on a scale of 6.0, with a value of 6.0 being the best. This rating represents the similarity of these SGH results and the SGH Pathfinder Class maps primarily with case studies, over Volcanic Massive Sulphide (VMS) type deposits, conducted at the Hanson Lake VMS deposit in Saskatchewan, the South Gilmour VMS deposit in New Brunswick or the Cross Lake VMS deposit in Ontario. The degree of confidence in the SGH ratings only starts to be "good" at a level of 4.0 on the scale of 6.0.

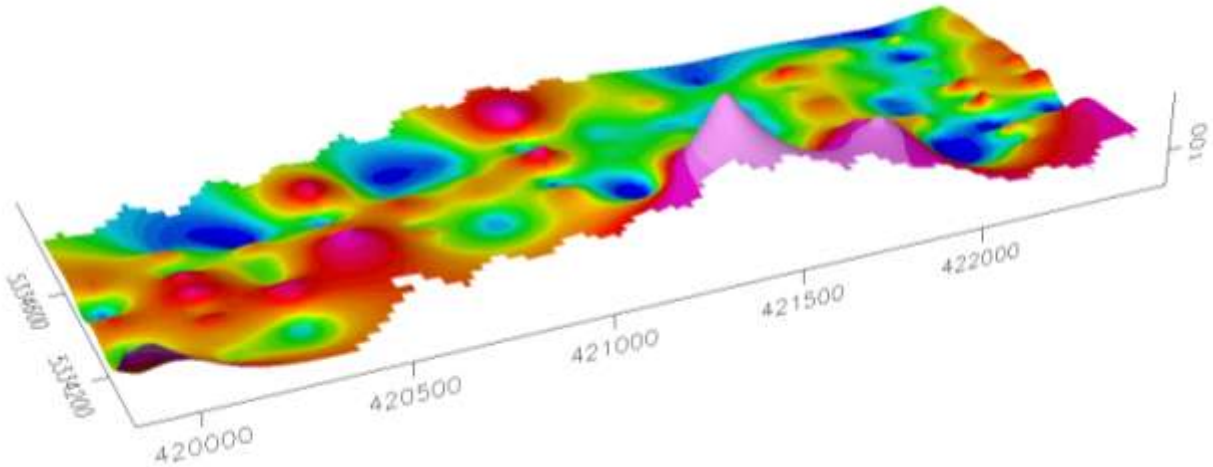
- The client should use a combination of these SGH results and its report with additional geochemical, geophysical, and geological information to possibly obtain a more confident and precise target location.

1336 Sandhill Drive ● Ancaster, ON ● L9G 4V5 ● Tel: (905) 648-9611 ● Fax: (905) 648-9613 ● Toll Free: 1-888-ACTLABS
E-mail: dalesutherland@actlabsint.com ● Web Site: www.actlabs.com

EVALUATION OF SGH RESULTS – A09-6505
GOLDEN CHALICE RESOURCES – PENHORWOOD - TIMMINS WEST PROJECT

SGH BASE METAL/VMS PATHFINDER CLASS MAP





GEOSOFT

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Cautionary Note Regarding Assumptions and Forward Looking Statements

The statements and target rating made in the Soil Gas Hydrocarbon (SGH) interpretive report or in other communications may contain certain forward-looking information related to a target or SGH anomaly.

Statements related to the rating of a target are based on comparison of the SGH signatures derived by Activation Laboratories Ltd. through previous research on known case studies. The rating is not derived from any statistics or other formula. The rating is a subjective value on a scale of 0 to 6 relative to the similarity of the SGH signature reviewed compared to the results of previous scientific research and case studies based on the analysis of surficial samples over known ore bodies. No information on other geochemistries, geophysics, or geology is usually available as additional information for the interpretation and assignment of a rating value unless otherwise stated. The rating does not imply ore grade and is not to be used in mineral resource estimate calculations. References to the rating should be viewed as forward-looking statements to the extent that it involves a subjective comparison to known SGH case studies. As with other geochemistries, the implied rating and anticipated target characteristics may be different than that actually encountered if the target is drilled or the property developed.

Activation Laboratories Ltd. may also make a scientifically based reference in this interpretive report to an area that might be used as a drill target. Usually the nearest sample is identified as an approximation to a "possible drill target" location. This is based only on SGH results and is to be regarded as a guide based on the current state of this science.

Unless stated, Activation Laboratories Ltd. has not physically observed the exploration site and has no prior knowledge of any site description or details. Actlabs makes general recommendations for sampling and shipping of samples. Unless stated, the laboratory does not witness sampling, does not take into consideration the specific sampling procedures used, season, handling, packaging, or shipping methods. The majority of the time, Activation Laboratories Ltd. has had no input into sampling survey design. Where specified Activation Laboratories Ltd. may not have conducted sample preparation procedures as it may have been conducted at the client's assigned laboratory. Although the Company has attempted to identify important factors that could cause actual actions, events or results to differ scientifically which may impact the associated interpretation and target rating from those described in forward-looking statements, there may be other factors that cause actions, events or results not to be as anticipated, estimated or intended.

In general, any statements that express or involve discussions with respect to predictions, expectations, beliefs, plans, projections, objectives, assumptions, future events or performance are not statements of historical fact. These "scientifically based educated theories" should be viewed as "forward-looking statements".

Readers of this interpretive report are cautioned not to place undue reliance on forward-looking information. Forward looking statements are made based on scientific beliefs, estimates and opinions on the date the statements are made and the interpretive report issued. The Company undertakes no obligation to update forward-looking statements or otherwise revise previous reports if these beliefs, estimates and opinions, future scientific developments, other new information, or other circumstances should change that may affect the analytical results, rating, or interpretation.

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E-mail: dalesutherland@actlabsint.com ● Web Site: www.actlabs.com

Analysis and Interpretation of the Results of the 2009 Soil Geochemical Survey on the Penhorwood Property, Timmins West Project, Ontario

Prepared For:

GOLDEN CHALICE RESOURCES INC

J Kevin Montgomery MSc (A), PGeo.

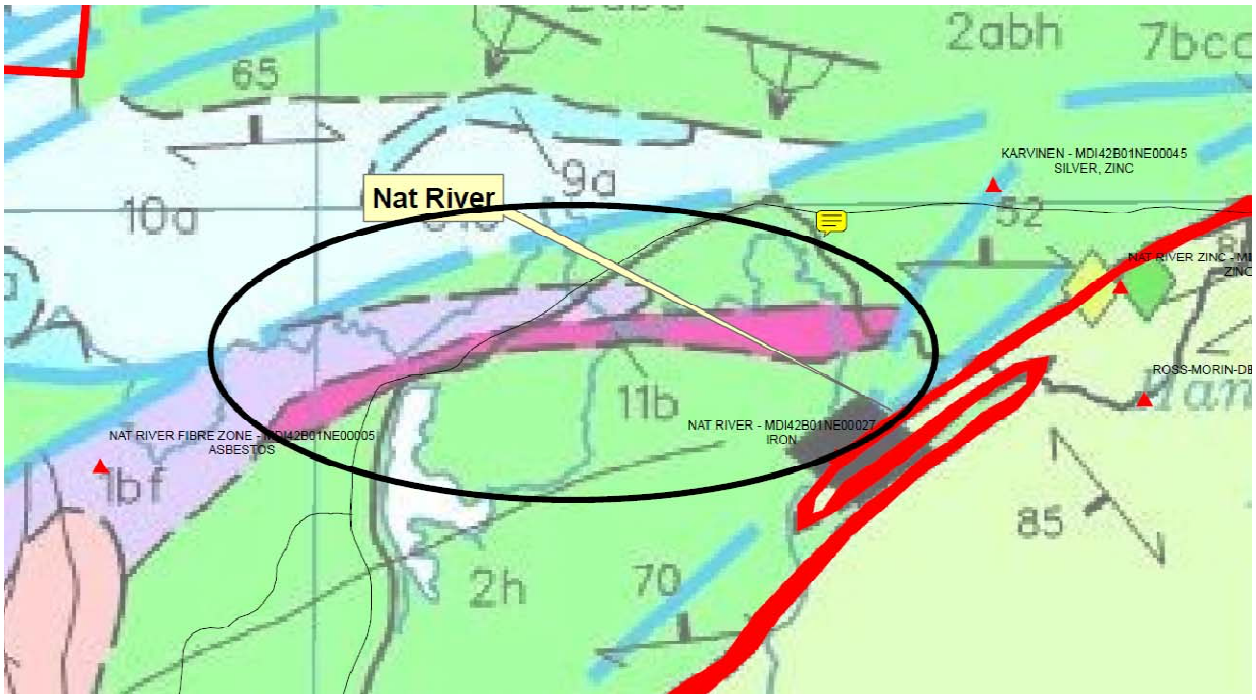
SUMMARY

The soil geochemical survey at Golden Chalice Resources Penhorwood Property was conducted to aid in the search for a variety of metal deposit types. The deposits sought are quartz gold lode, gold-copper porphyry, volcanogenic massive sulphide (Cu,Zn,Pb) and nickel kambalda. It has delineated several distinctive multi sample geochemical anomalies. These include a gold anomaly with an adjacent copper anomaly in the central west portion of the survey area. Also four zinc anomalies (extreme southwest corner, southwest central, southeast & northeast) and two nickel anomalies (southwest & central). The host rocks to these anomalous responses are interpreted by Ontario government geologists to be quartz-feldspar porphyry intrusions and mafic to ultramafic lithologies. The anomalies vary from medium-contrast to high-contrast in character. They will need to be correlated to the Mobile Metal Ions (MMI) and Soil Gas Hydrocarbon (SGH) analysis results to determine their importance as possible drill targets. Follow-up work such as geophysical surveys over the anomalies may be required to prioritize them as diamond drill targets.

INTRODUCTION

This report is an interpretation of the results from a soil geochemical survey conducted on an area in the north central portion of the Golden Chalice Resources Penhorwood Property. A total of 160 soil samples collected on north-south flagged lines that were 200 m apart. Samples were collected at 50 m spacing along the lines (see Map 1 Sample locations). The samples were sent to Activation Laboratories and analyzed for the following elements: Au, Ag, Ni, Zn, As, Ba, Br, Co, Cr, Cs, Eu, Fe, Hf, Ir, Hg, Ir, Na, Rb, Sb, Sc, Se, Ta, Th, U, W, La, Ce, Nd, Sm, Sn, Tb, Yb, Lu, Cu, Mo, Pb, S, Al, Be, Bi, Ca, K, Mg, Mn, P, Sr, Ti, V and Y. The quality control of the analysis and the data quality was good (see assay certificates).

The metal deposit types sought by Golden Chalice Resources over the surveyed area are quartz gold lode, gold-copper porphyry, volcanogenic massive sulphide (Cu,Zn,Pb) and nickel kambalda. These targets are based on the MNDM geological compilation maps and detail geology maps which show the area is hypothesized to be underlain by a quartz-feldspar porphyry intrusion with mafic to ultramafic volcanic to the north and south.



As a result of the exploration targets sought, this interpretation report will focus on the main elements of interest of the above deposit types. These are gold, silver, copper, zinc, lead and nickel.

MATHE MATICAL ANALYSIS

The Laboratory data from the two assay certificates were inputted and merged into an excel spreadsheet along with the NAD 83 GPs locations of each of the samples. This excel spreadsheet was then imported into the computer program Oasis Montaj. The geochemical module of the Oasis Montaj program was used to conduct a mathematical analysis of the gold, silver, copper, zinc, lead and nickel assays (see table below). All element values below their detection limit were assigned a zero value.

Table 1

	Gold	**Silver**	**Copper**	**Zinc**	**Lead**	**Nickel**
Detection Limit	2 ppb	0.3 ppm	1 ppm	1 ppm	3 ppm	1 ppm
Minimum	0	0	1	12	5	7
Maximum	37	0.6	171	66	14	73
Mean	1.53	0.04	8.61	26.63	8.89	24.52
Standard Deviation	5.1	0.12	15.1	8.6	1.5	10.3
Skewness	4.87	2.79	8.22	1.28	0.51	1.99
Kurtosis	25.8	6.67	86.63	2.39	0.67	5.79

NB Minimums for gold and silver were below detection limits.

Based on the mathematical analysis of each element, five ranges of values where selected for each element. Utilizing the Oasis Montaj program, the results of each selected element were assigned to a range and a colour bubble map was produced. This was done to determine anomalous areas and spots in the survey area. The maps for each of the six selected elements are attached at the end of this report (Map 2 to 7).

RESULTS

Gold

The plot of the results (Map 2) indicates one moderately significant gold soil anomaly located at Line 22E 0/50N (422100E, 5334550/600N). Three gold spot anomalies are present in the survey area and will require geological investigation or tighter follow-up sampling. Values below 5 ppb are background and likely caused by the underlying mafic volcanic stratigraphy.

Silver

The plot of the results (Map 3) indicates weak silver values and no significant silver soil anomaly.

Copper

The plot of the results (Map 4) indicates one moderately significant copper soil anomaly located at Line 18E and Line 20E at 100N (421700 to 900E, 5334600N). Values below 20 ppm are background and likely caused by the underlying mafic volcanic stratigraphy.

Zinc

Four zinc anomalous areas are outlined from the plot of the assay results (Map 5).
They are as follows:
1. Line 0 350S & Line 2E 400S (419900E, 5334150N & 420100E, 5334100N)
2. Line 4-6E, 50S (420300 to 500E, 5334450N)
3. Line 24E 0 & 50S (422300E, 5334450/500N)
4. A Linear anomaly extending from Line 20E, 250N to Line 26E, 400N (421900E 5334750N to 422500E 5334900N).

Values below 40 ppm are background and likely caused by the underlying mafic volcanic stratigraphy.

Lead

The plot of the results (Map 6) indicates weak silver values and no significant silver soil anomaly.

Nickel

Two nickel anomalous areas are outlined from the plot of the assay results (Map 7).
The first is located in the southwest central portion of the survey area at Line 0 to 4E 200S (419900 to 420300E, 5334300N). The second is found in the central portion of the survey area at Line 8E 100/150 N (420700E, 5334600/650N). Values below 40 ppm are background and likely caused by the underlying mafic volcanic stratigraphy.

None of the above anomalies are multi-element.

CONCLUSIONS

The soil geochemical survey has detected one gold anomaly, one copper anomaly, four zinc anomalies and two nickel anomalies. None of these anomalies coincide with each other. The anomalies need to be correlated to the geology of the area and are likely hosted by mafic volcanics, ultramafic volcanics or quartz-feldspar porphyry intrusions. The cause of the anomalies is speculative at this time until diamond drilling determines whether they are caused by sulphide mineralization. The importance of these soil geochemical anomalies needs to be related to the Mobile Metal Ions (MMI) and Soil Gas Hydrocarbon (SGH) analysis results to determine follow up exploration plans.

CERTIFICATE OF QUALIFICATIONS

I, J. Kevin Montgomery, of the City of Timmins, Province of Ontario, do hereby certify that:

(1) I am a professional Consulting Geologist, residing at 1190 Lozanne Crescent, Timmins Ontario, P4P 1E8.

(2) I hold a B.Sc. Honours degree in Geological Sciences (1984) from Queen's University of Kingston, Ontario and a M.Sc.(App.) in Mineral Exploration (1987) from McGill University at Montreal, Quebec.

(3) I am a registered professional geoscientist with the Association of Professional Geoscientists of Ontario.

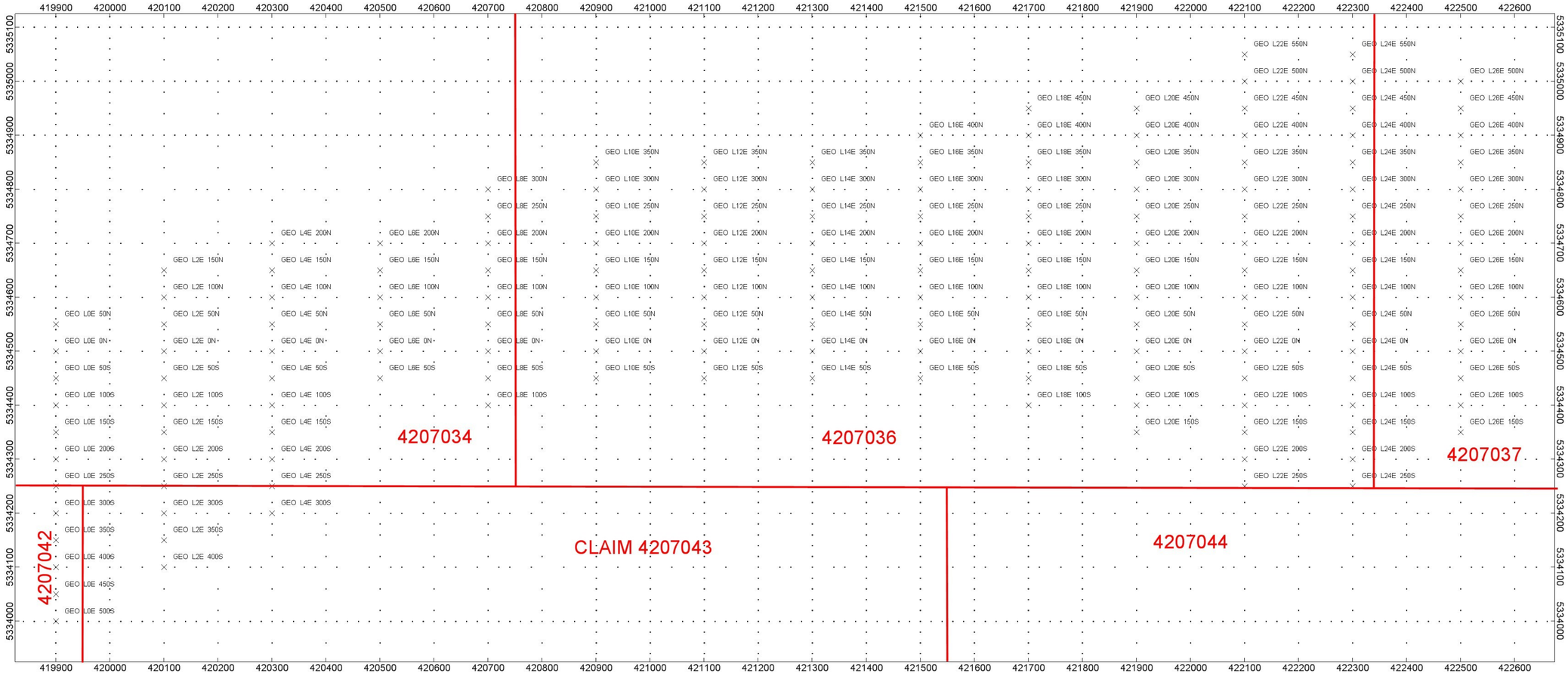
(4) This report is based on my analysis of the 2009 Soil Geochemical results on the Penhorwood Property. I have over 27 years of geological and geochemical experience in Archean terrains.

(5) I have no personal interest in the Penhorwood Property covered by this report.

(6) Permission is granted for the use of this report, in whole or in part, for assessment and qualification requirements but not for advertising purposes.

Dated at Timmins, Ontario

This 16th day of November, 2009 J. Kevin Montgomery M.Sc. (App.) P.Geo



Scale 1:5000

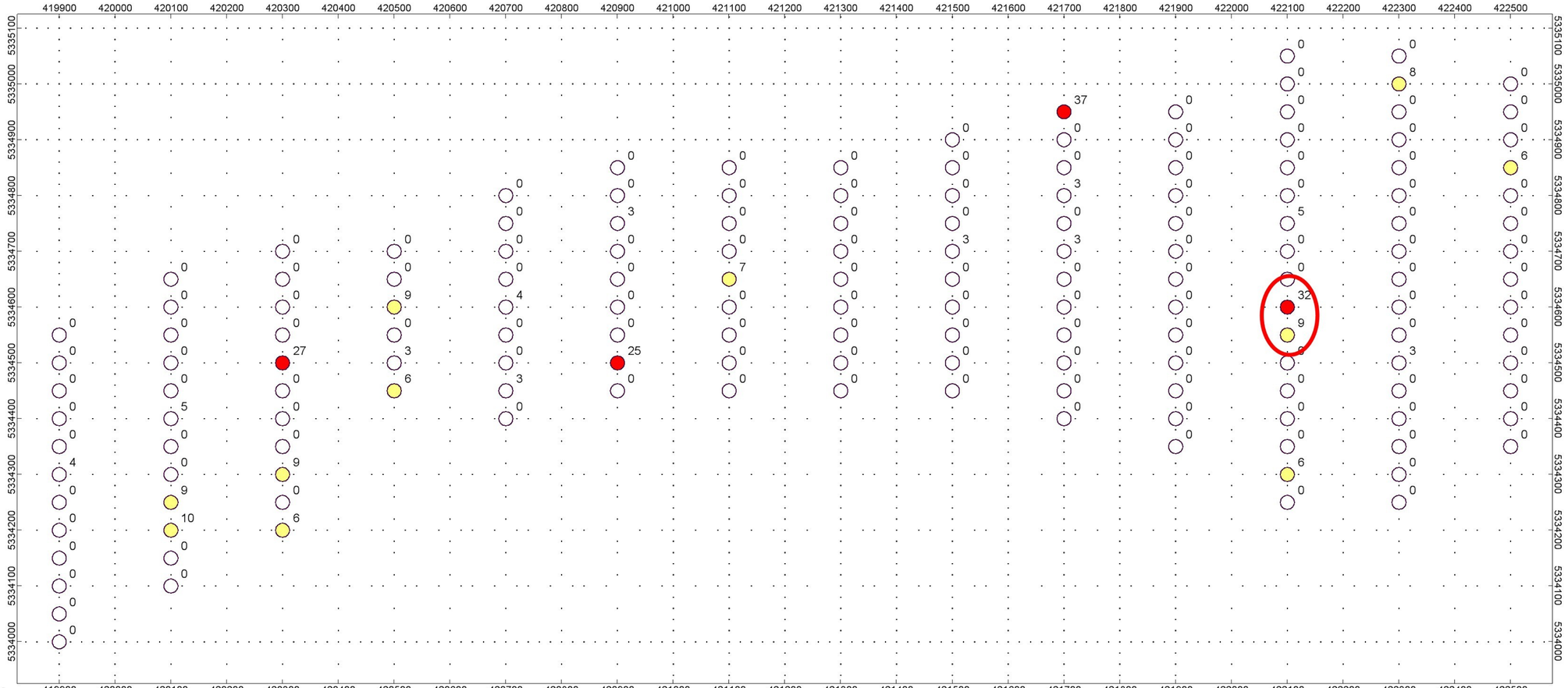
100 0 100 200 300

(meters)

NAD83 / UTM zone 17N

Map 1

Golden Chalice Resources
Central Porphyry Grid, Penhorwood Property **Sample Numbers/Location NAD 83**
K Montgomery



Au (ppb)

- > 20
- 15 - 20
- 10 - 15
- 5 - 10
- < 5

Anomalous Gold Area

Scale 1:5000

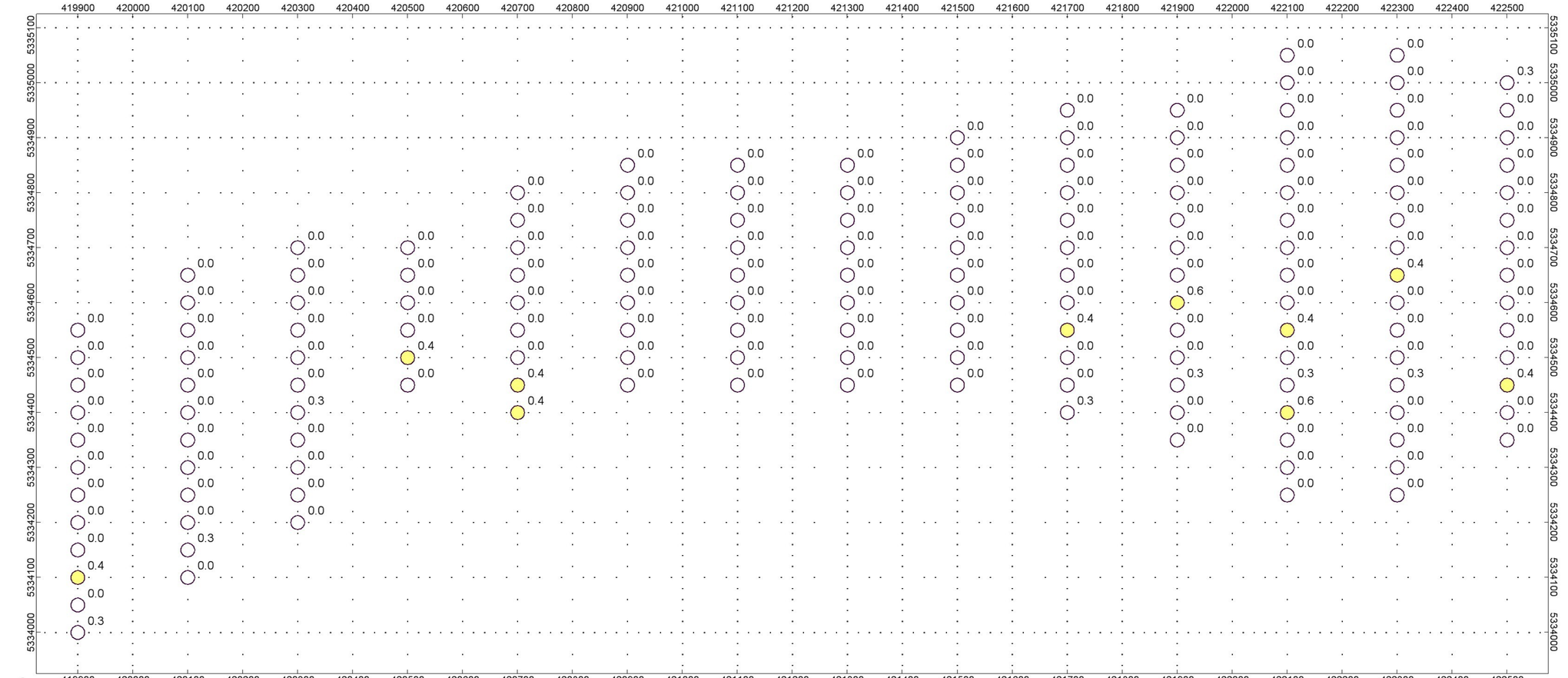
100 0 100 200 300

(meters)

NAD83 / UTM zone 17N

Map 2

Golden Chalice Resources
Central Porphyry Grid, Penhorwood Property Soil Geochem Gold Results
K Montgomery



Ag (ppm)

- > 2
- 1 - 2
- 0.6 - 1
- 0.3 - 0.6
- < 0.3

Scale 1:5000

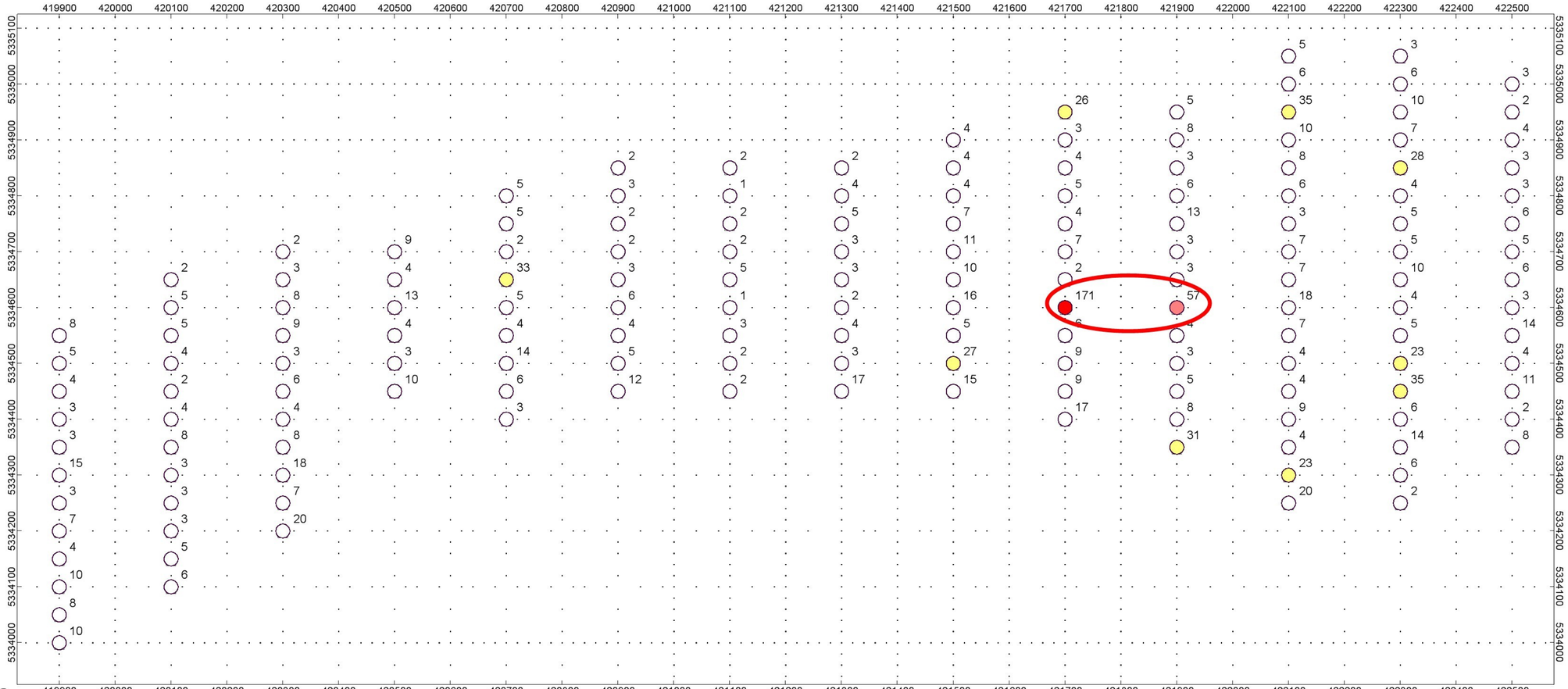
100 0 100 200 300

(meters)

NAD83/UTM zone 17N

Map 3

Golden Chalice Resources
Central Porphyry Grid, Penhorwood Property **Soil Geochem Silver Results**
K Montgomery



Cu (ppm)

- > 80
- 60 - 80
- 40 - 60
- 20 - 40
- < 20

Anomalous Copper Area

Scale 1:5000

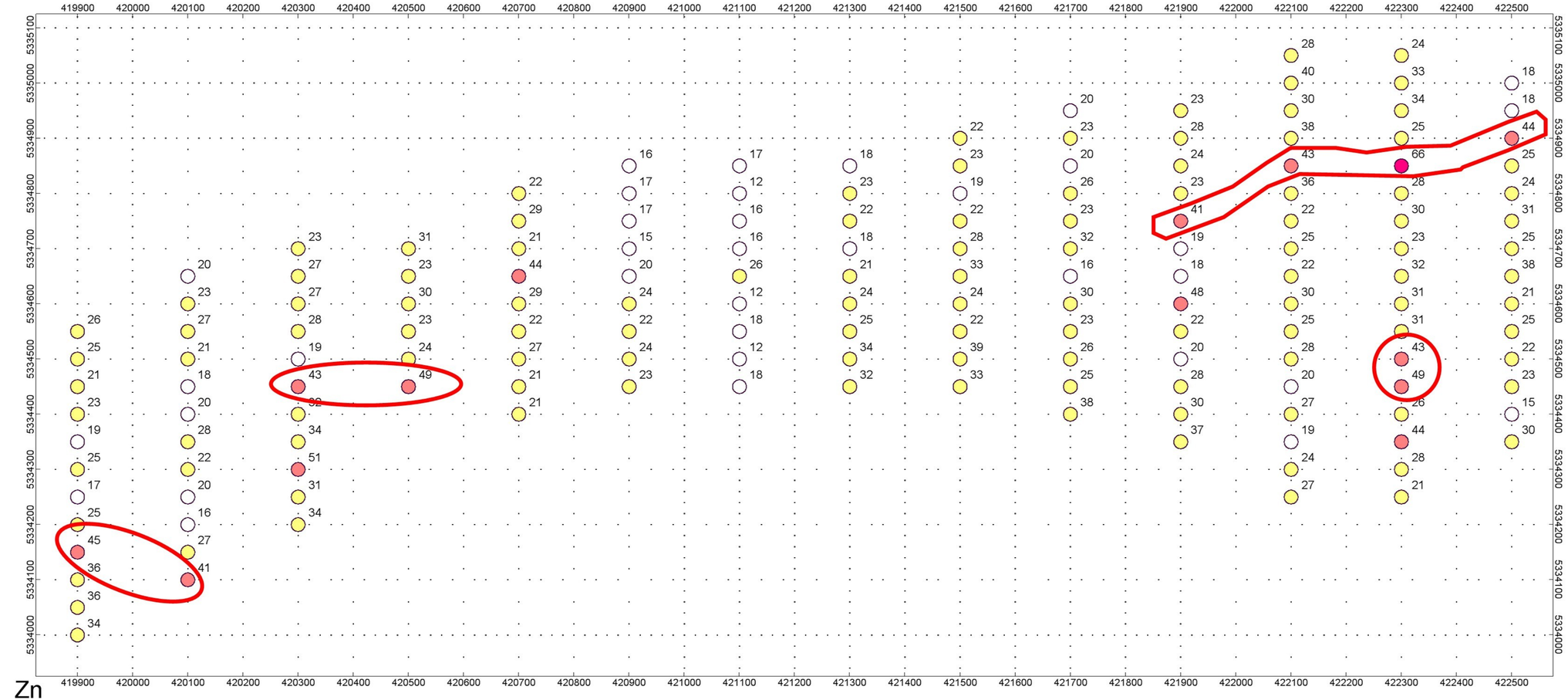
100 0 100 200 300

(meters)

NAD83 / UTM zone 17N

Map 4

Golden Chalice Resources
Central Porphyry Grid, Penhorwood Property **Soil Geochem Copper Results**
K Montgomery



Zn (ppm)

- > 80
- 60 - 80
- 40 - 60
- 20 - 40
- < 20

Anomalous zinc area.

Scale 1:5000

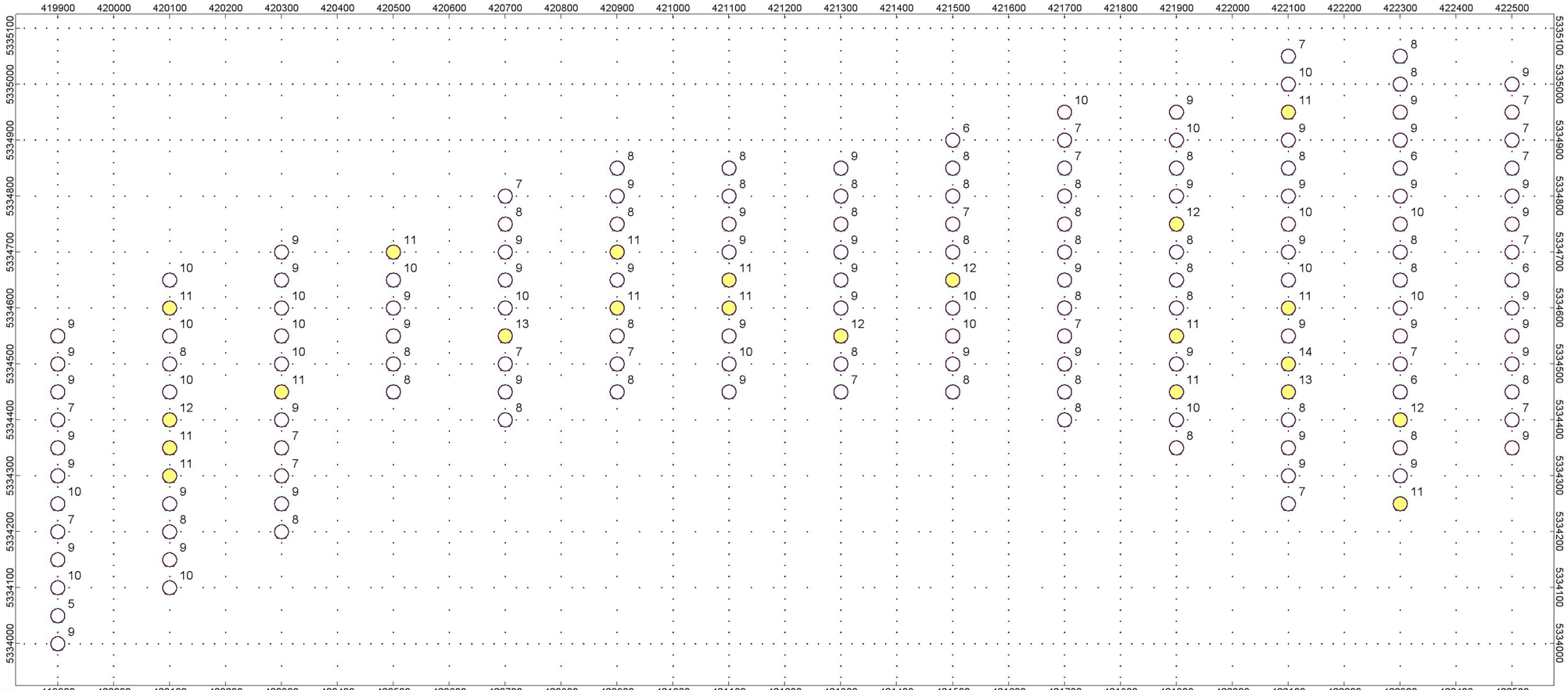
100 0 100 200 300

(meters)

NAD83 / UTM zone 17N

Map 5

Golden Chalice Resources
Central Porphyry Grid, Penhorwood Property **Soil Geochem Zinc Results**
K Montgomery



Pb (ppm)

- > 50
- 30 - 50
- 20 - 30
- 10 - 20
- < 10

Scale 1:5000

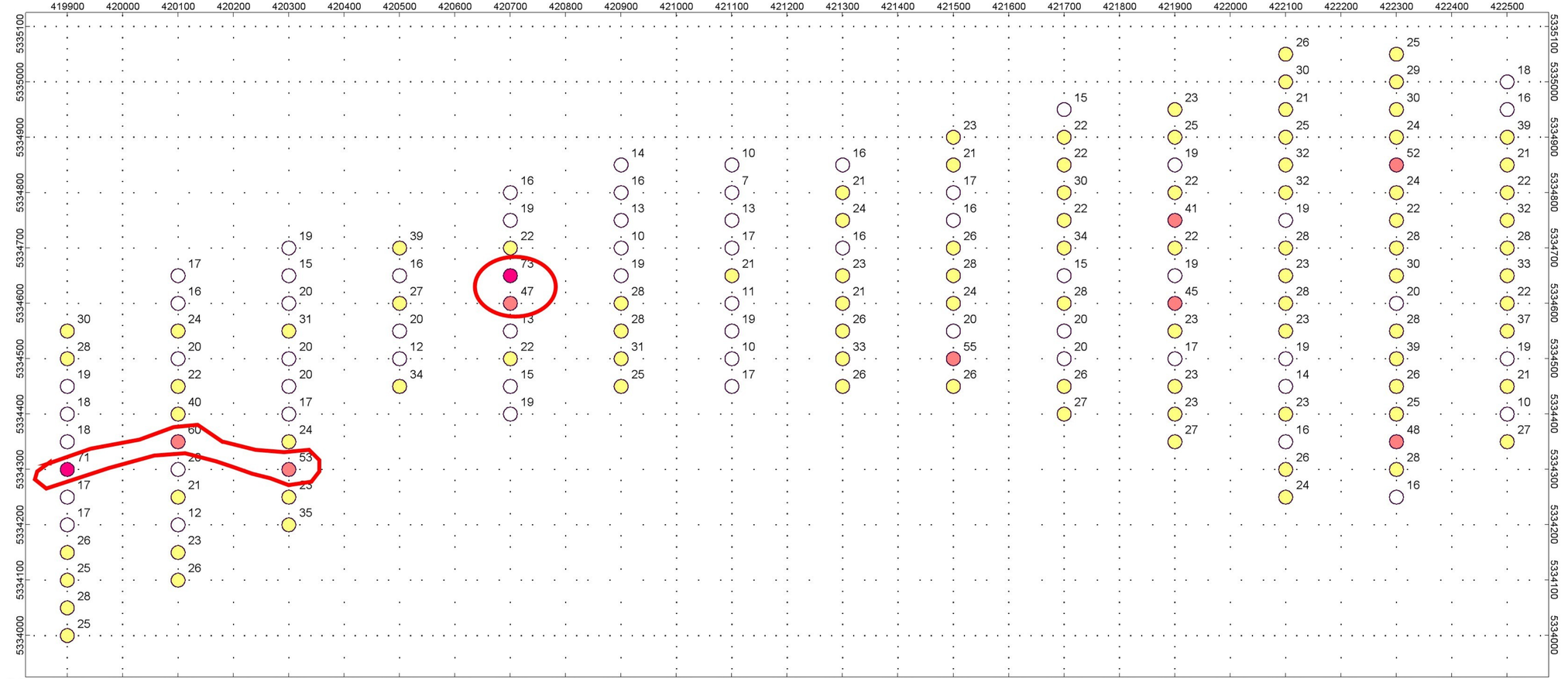
100 0 100 200 300

(meters)

NAD83 / UTM zone 17N

Map 6

Golden Chalice Resources
Central Porphyry Grid, Penhorwood Property **Soil Geochem Lead Results**
K Montgomery



Ni (ppm)

- > 80
- 60 - 80
- 40 - 60
- 20 - 40
- < 20

Anomalous Nickel area

Scale 1:5000

100 0 100 200 300

(meters)

NAD83 / UTM zone 17N

Map 7

Golden Chalice Resources
Central Porphyry Grid, Penhorwood Property **Soil Geochem Nickel Results**
K Montgomery

Preliminary Review of the Results of AMobile Metal Ions (MMI-M) Soil Geochemical Survey (2009) on the Penharwood Property of Golden Chalice Resources Inc.

Prepared For:

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Prepared By:

Mount Morgan Resources Ltd.

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SUMMARY

This MMI-M survey at Golden Chalice Resources Penhorwood property has delineated four distinctive MMI-M anomalies that are both multi-element and multi-sample in nature. The anomalous responses include Ni-Co-Ni/Cr with Ca, Ce and Mg (Lines 6+00E through 8+00E), Zn-Cd-Pb (Lines 2+00E through 6+00E; northwest corner of grid), Zn-Cd (North end of lines 16+00E through 24+00E; a second anomaly at the south end of lines 18+00E through 22+00E), and Cu-Ca-Mg-Sr (Lines 16+00E through 20+00E). The host rocks to these anomalous responses are interpreted to be quartz-feldspar porphyry intrusions and mafic to ultramafic lithologies that have been mapped in the area according to MNDM geological compilations. The anomalies vary from low-contrast to high-contrast and are single- to multi-sample in character. Data is interpreted to be both accurate and reproducible based on element associations. Based on the quality of the analytical data the sample collection has been methodical and consistent. The materials sampled are appropriate for MMI-M surveys.

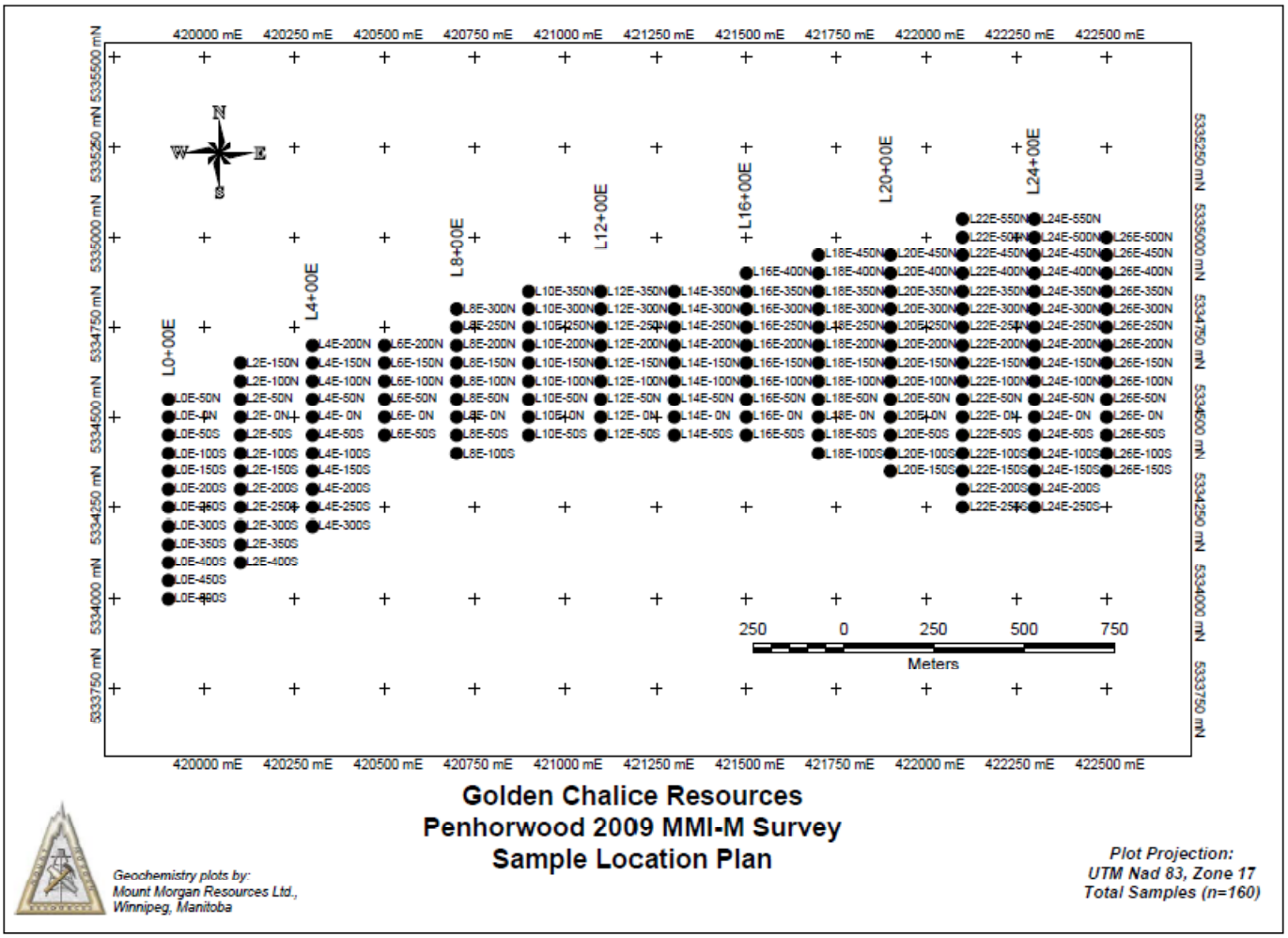
INTRODUCTION

This report is a preliminary interpretation of MMI-M data from the Penhorwood property area of West Timmins. The author was contracted by Mr. Kevin Montgomery of Golden Chalice Resources Inc. to prepare this brief report complete with graphics and interpretations.

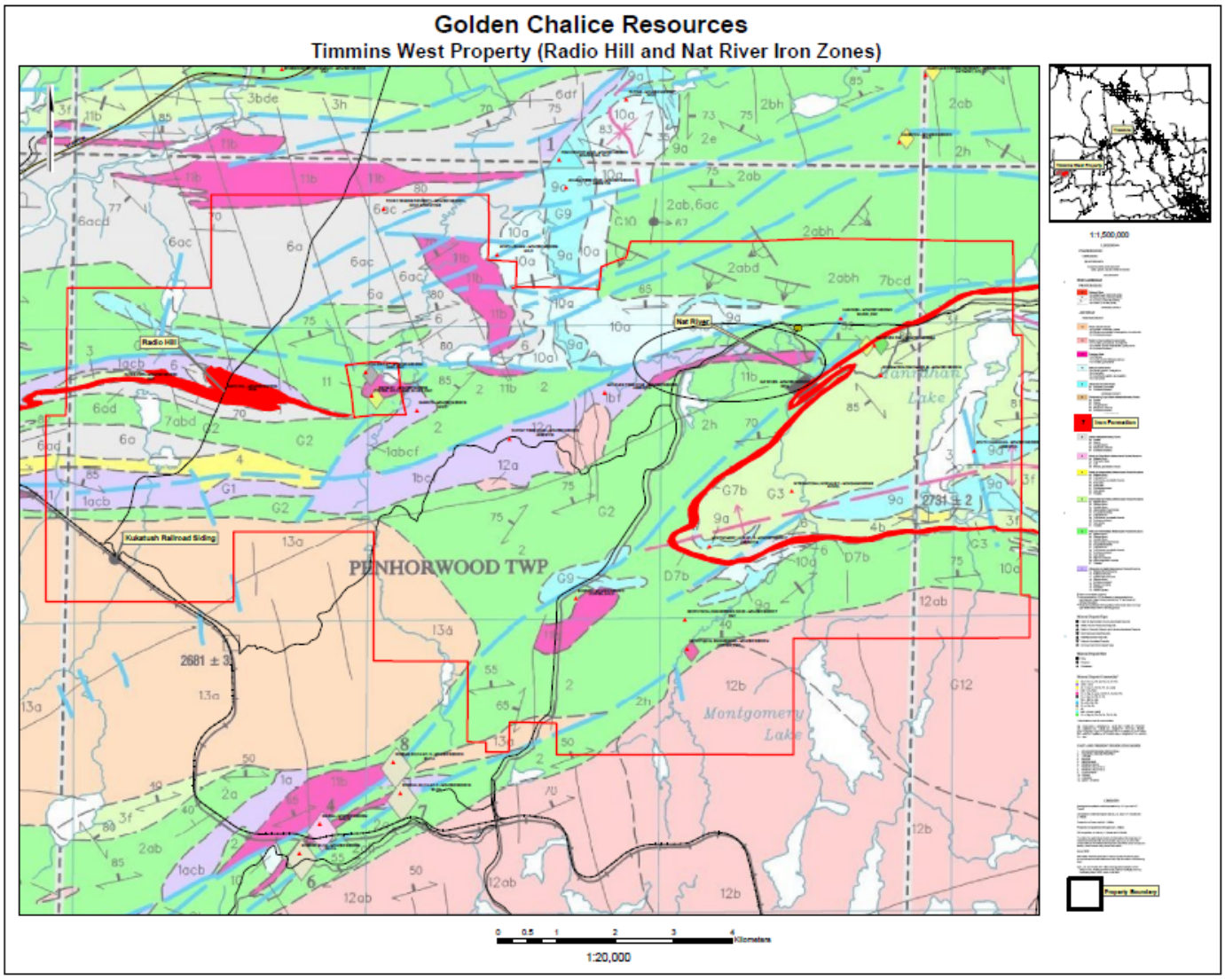
No attempt at the assessment of quality control and data quality was requested. Indirectly, based on element associations however, the reproducibility and the accuracy of the analyses appear to be acceptable for the purposes of delineating anomalous responses in the data.

Samples were collected at 50 m spacing along north-south grid lines that were 200 m apart.

Penhorwood Grid Sample Locations (n=160)



Timmins West MNDM Geological Compilation (Penhorwood)



Penhorwood Grid Survey Area

Timmins West MNDM Geological Compilation (Penhorwood)

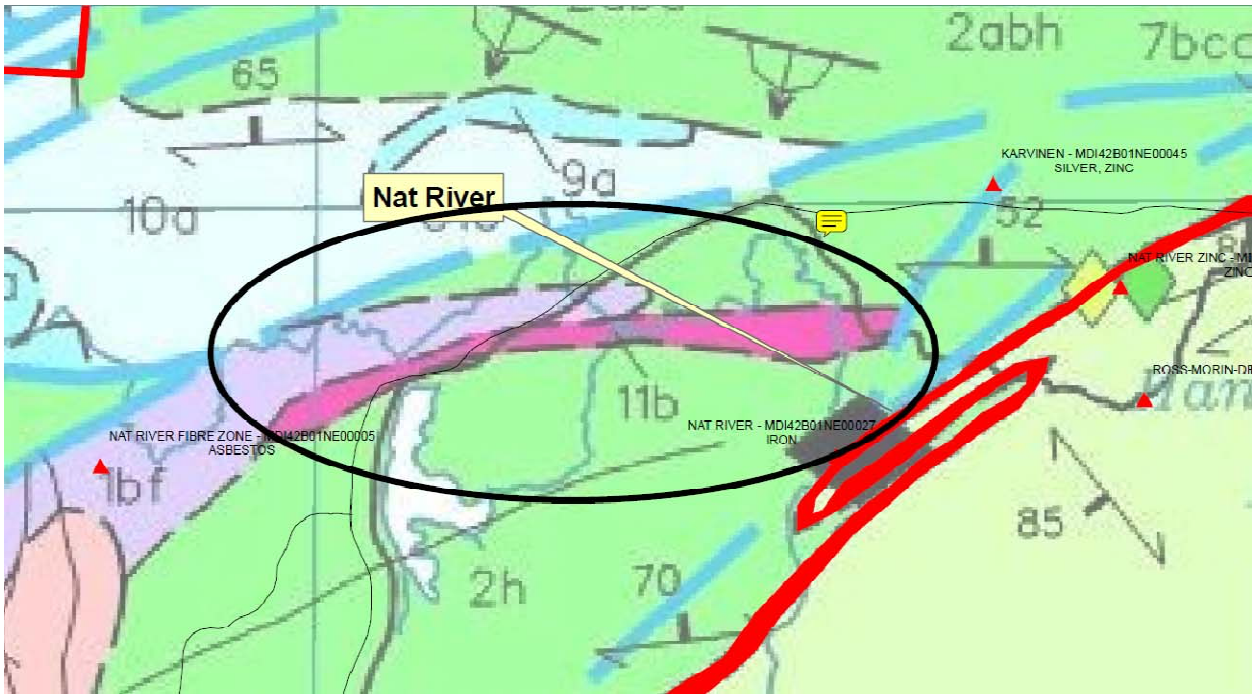
Lithologies

11b: Quartz +/- feldspar porphyry

10a: Diorite, gabbro, melagabbro

2h: Mafic to intervediate metavolcanic rocks and related intrusions

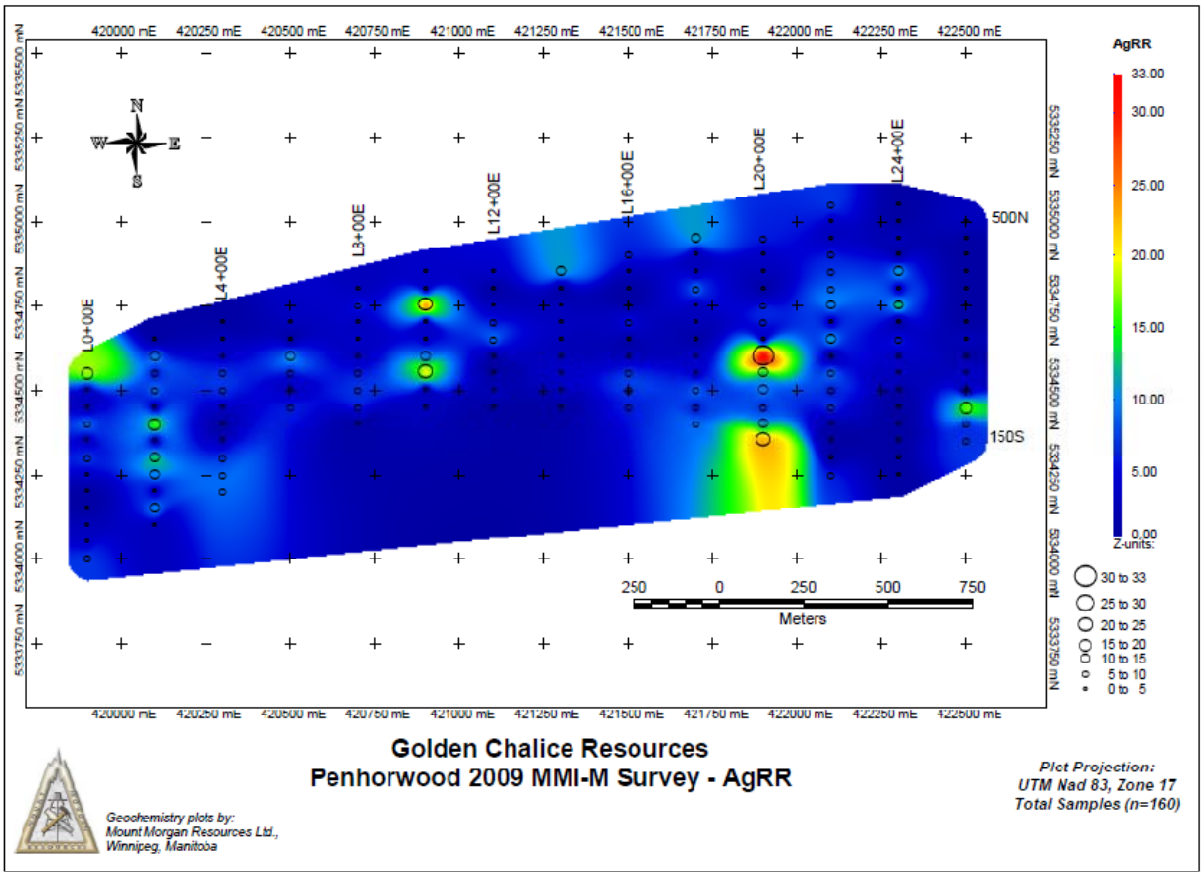
1bf: Polysutured to schistose-textured mafic to ultramafic flows



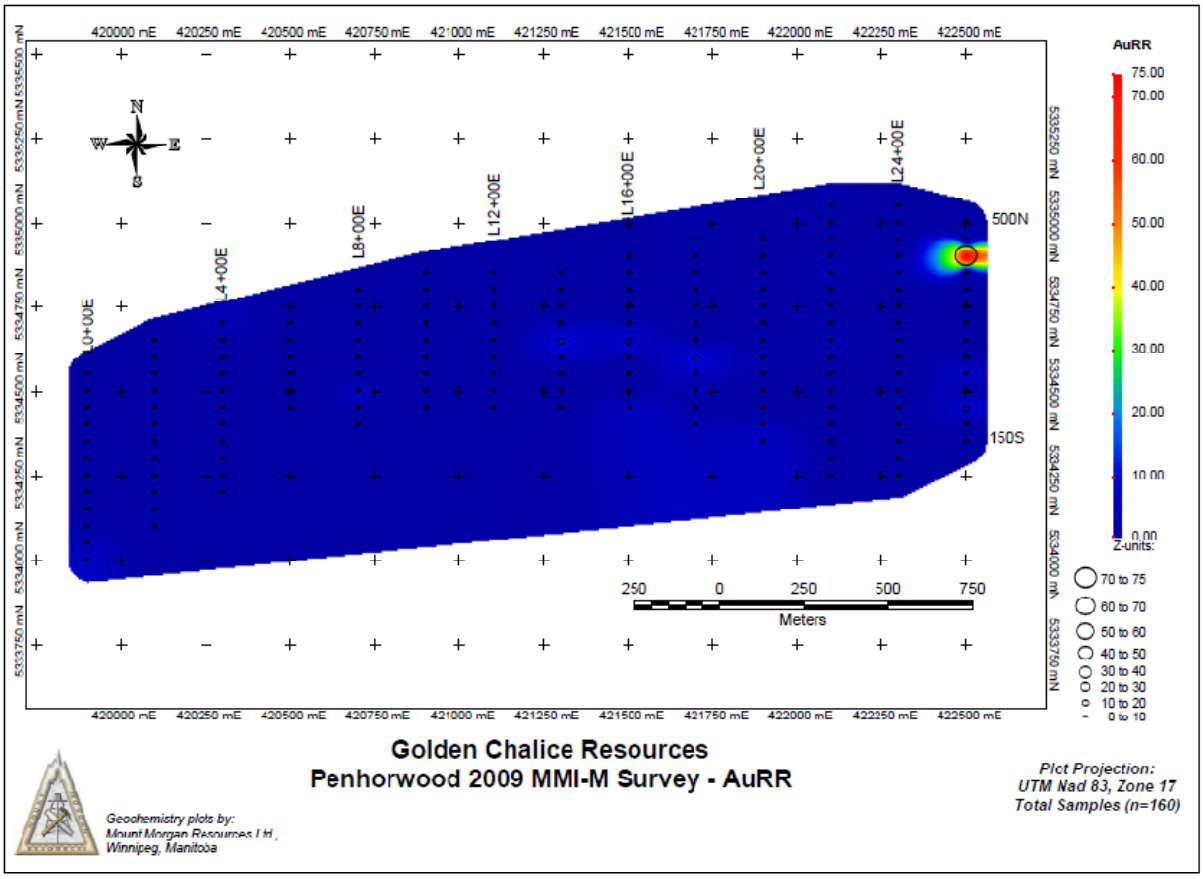
RESULTS

Precious Metals (Ag, Au)

AgRR (1-33): Spotty moderate-contrast single sample responses characterize the grid. There are no focused responses or vectors to a mineralized zone or lithology.

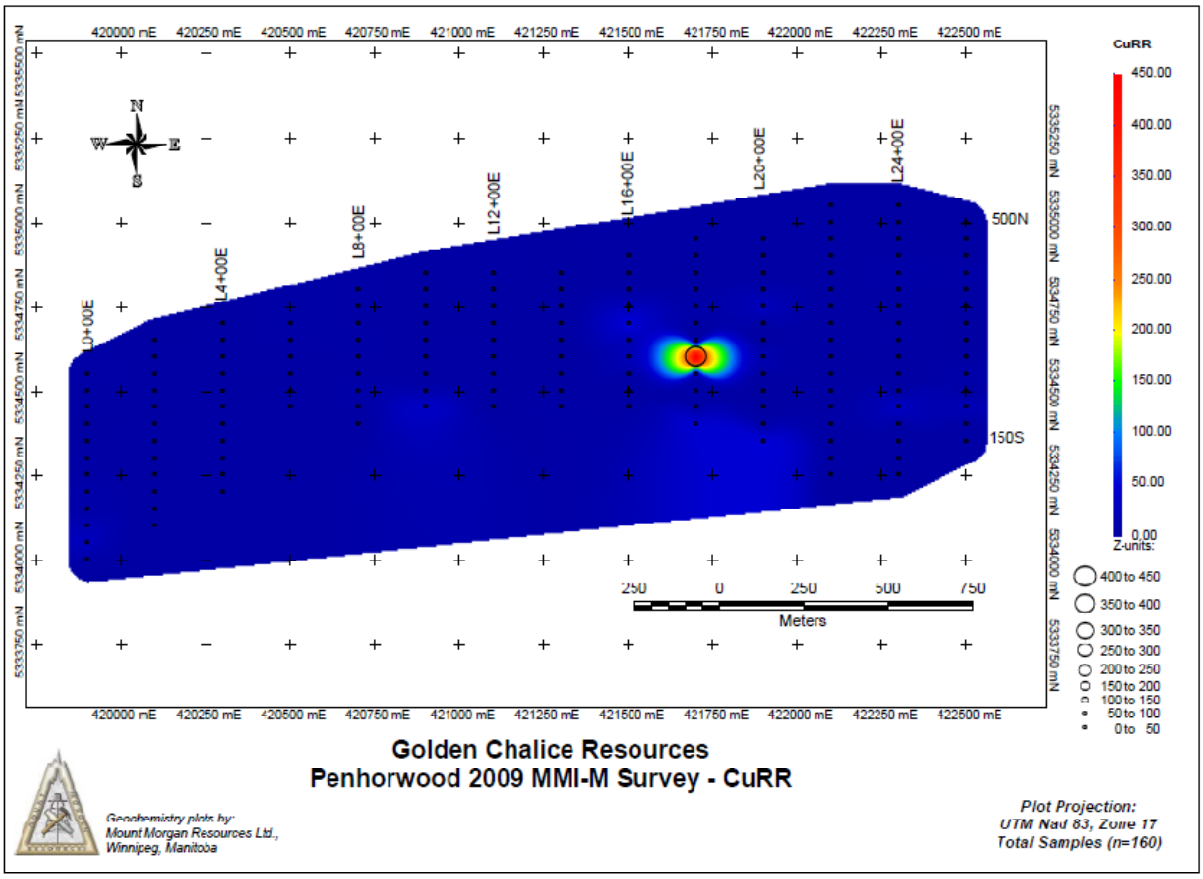


AuRR (1-74): A single high-contrast Au response of 74 times background is present near the northeast corner of the grid. All other responses are at background.

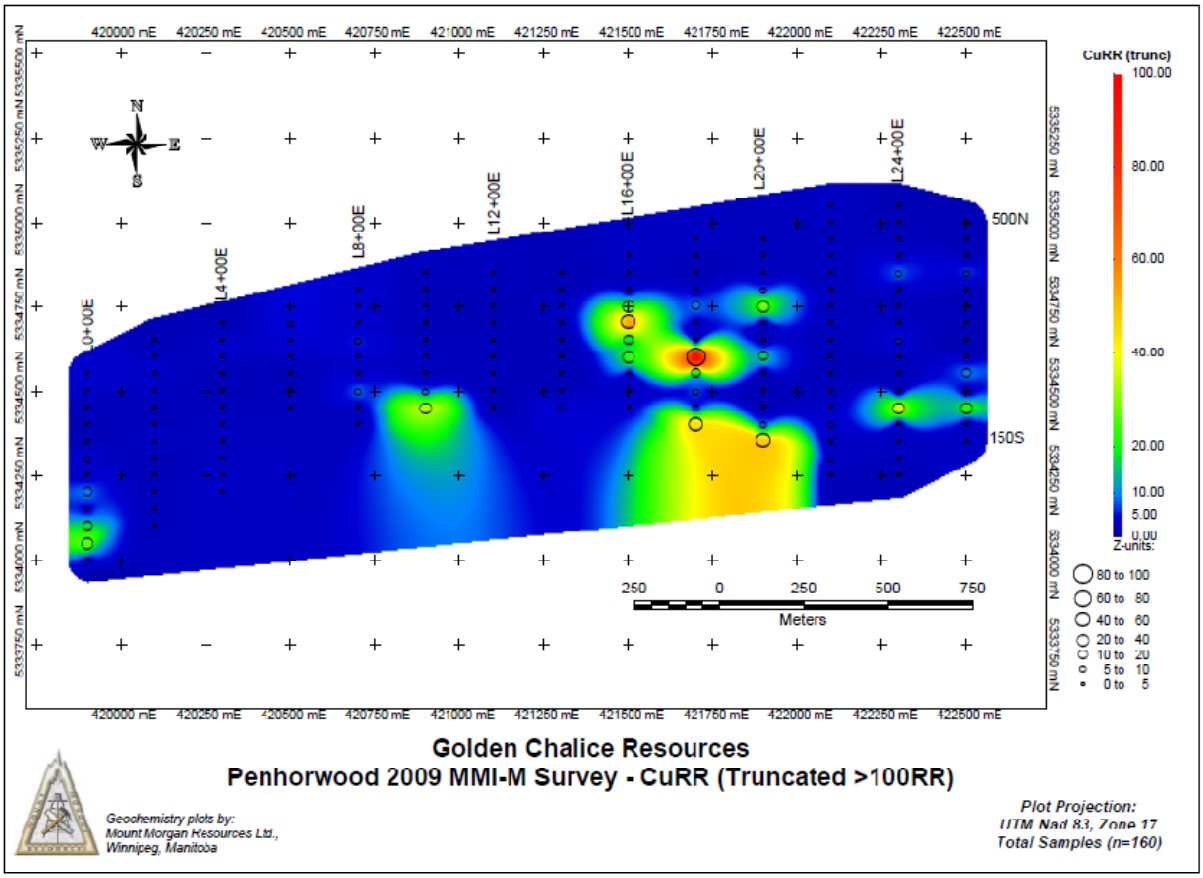


Base and Associated Metals (Cu, Pb, Zn, Cd, Ni and Co)

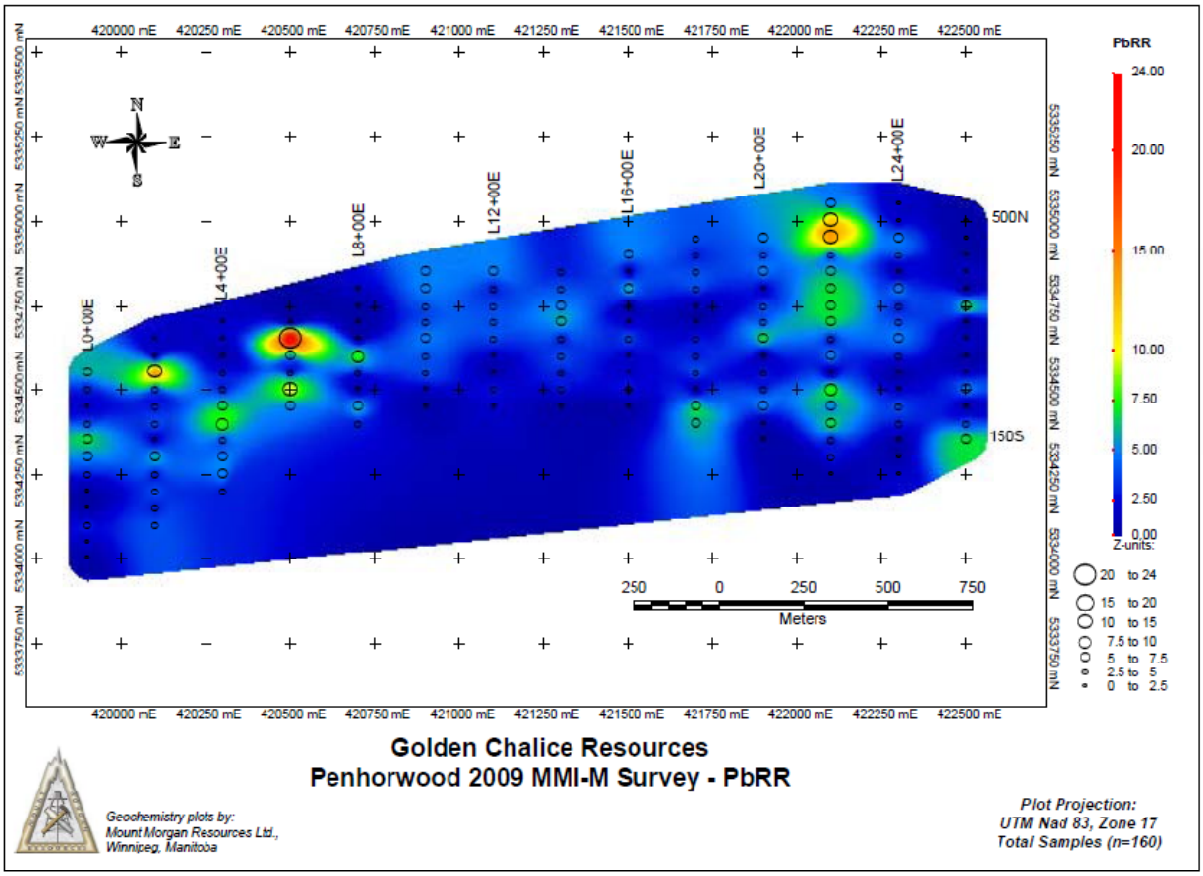
CuRR (1-454): A very high-contrast response of 454RR occurs on line 18+00E and suppresses responses that are at lower RR levels. Data truncation at 100RR to examine patterns at lower RR levels documents an anomaly between lines 16+00E and 20+00E. The anomaly comprises elevated responses for 10 or 11 samples however it is somewhat erratic with elevated responses interspersed with background responses. Nevertheless the elevated CuRR extends over three adjacent lines and should be examined in the field to determine whether there is mineralization nearby.



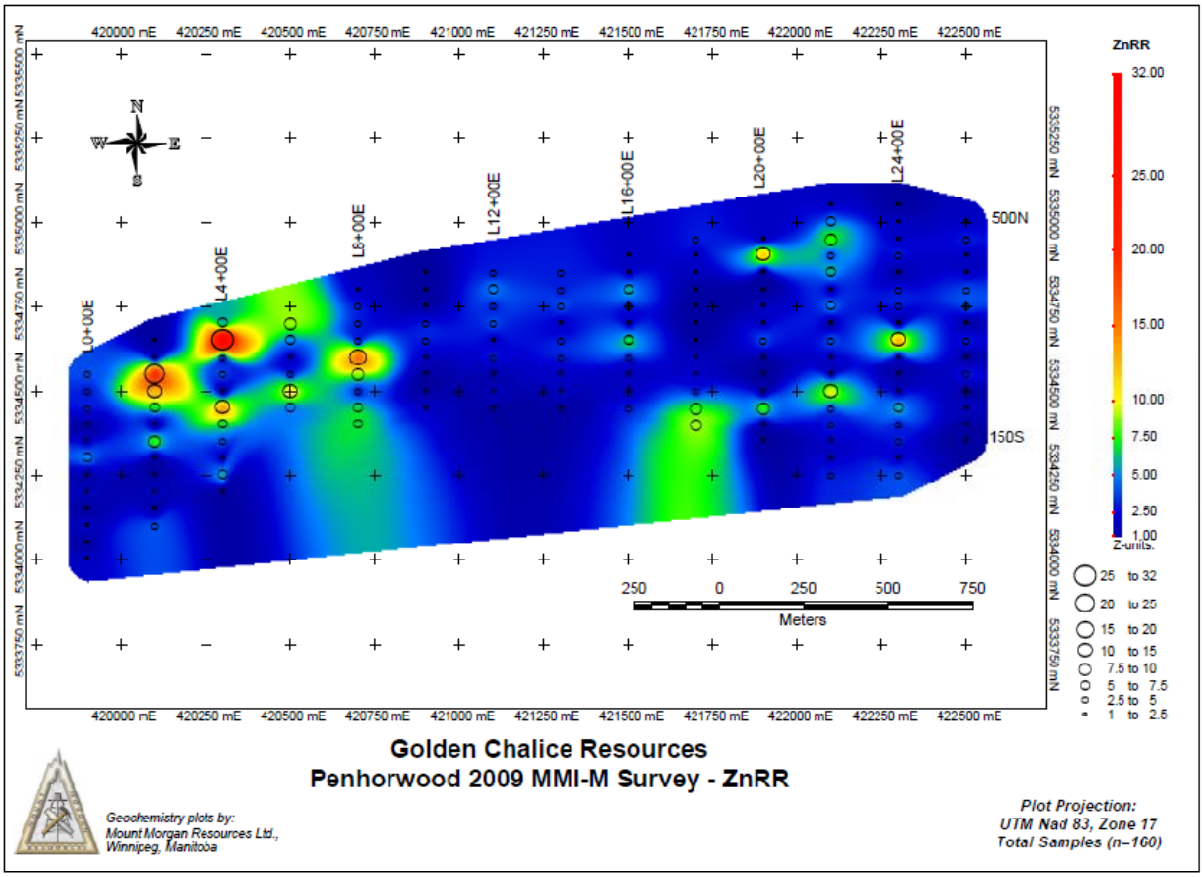
CuRR Truncated



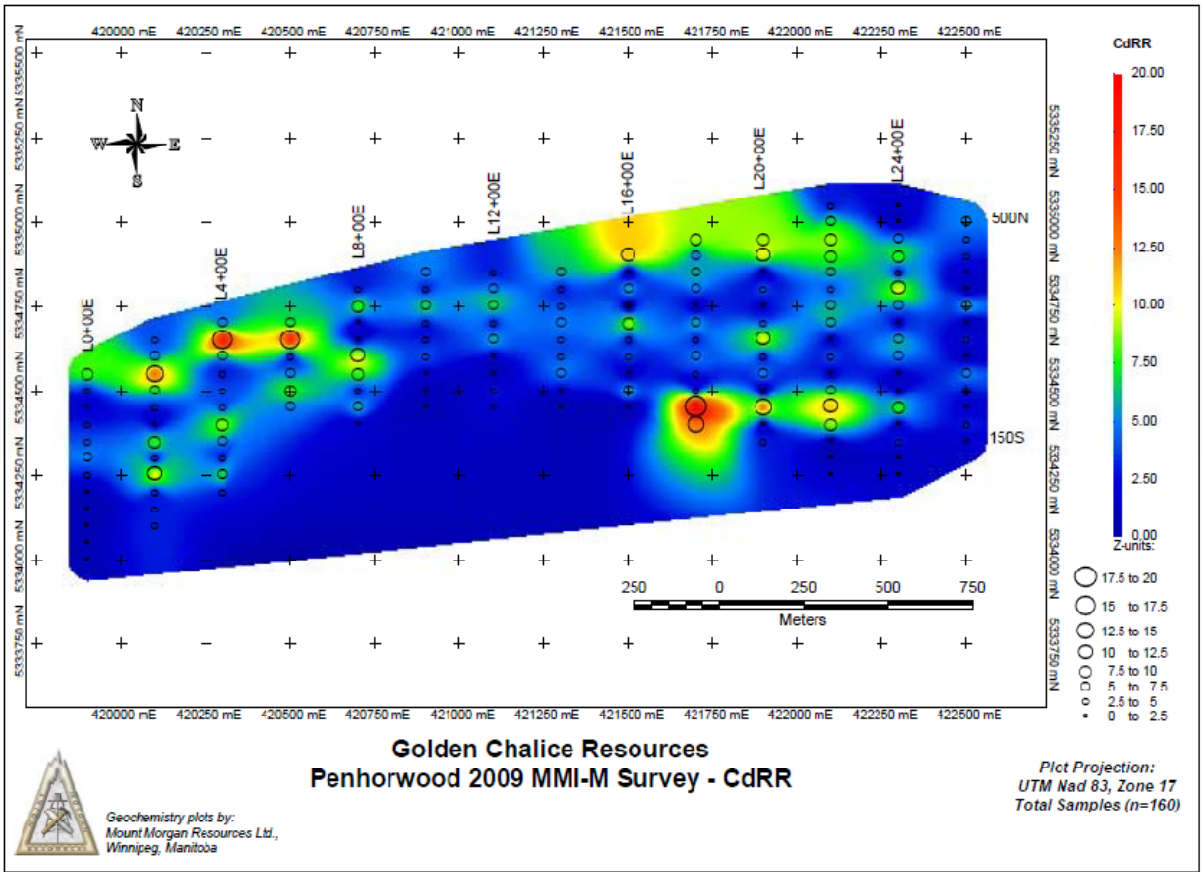
PbRR (1-24): Lead responses are of low- to moderate-contrast with a diffuse cluster of weakly elevated responses in the northwest corner of the grid between lines 6+00E and 1+00E. There are also a couple of low-contrast responses in the northeast grid area (line 23+00E).



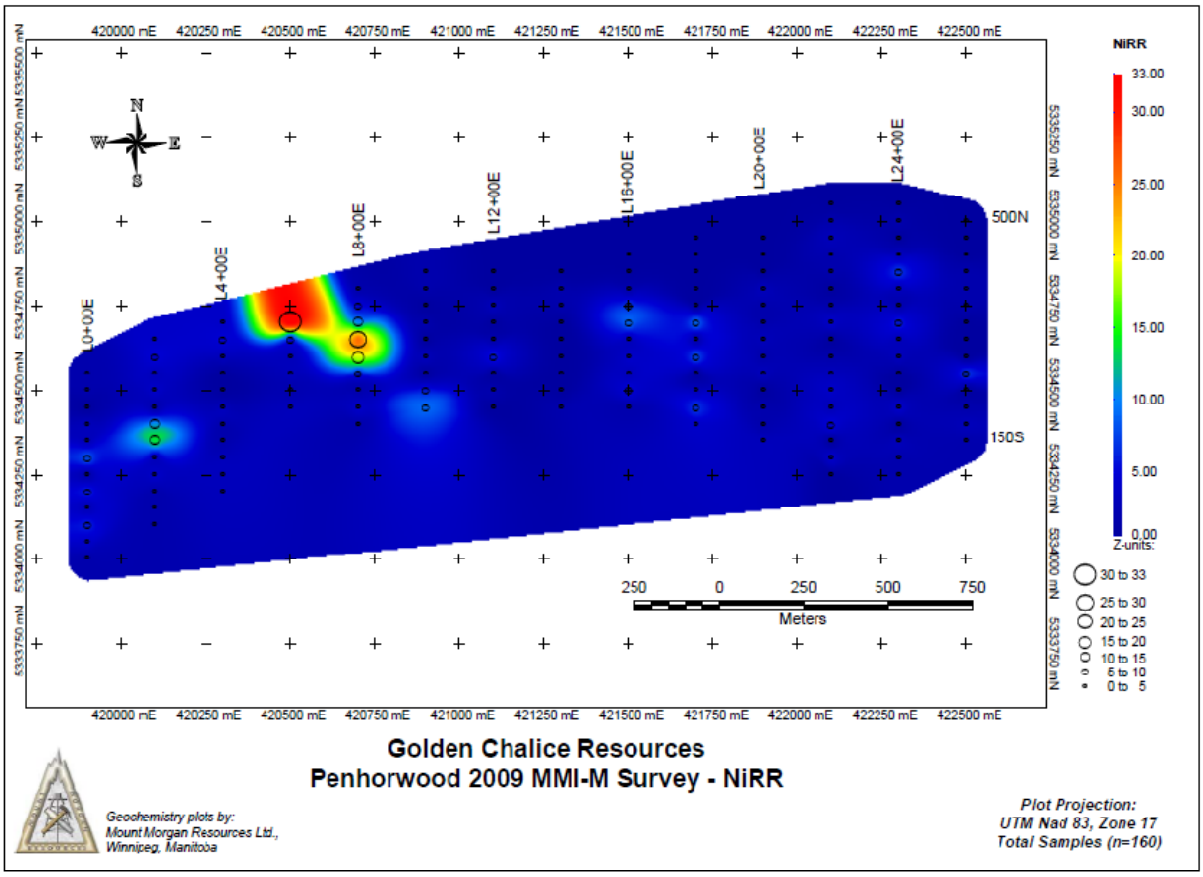
ZnRR (1-32): The Zn responses are low- to moderate-contrast and distinctively elevated in a multi-sample anomaly developed between lines 1+00E and 8+00E. The anomaly has the form of a “U” or it could be attributed to two east-west-trending anomalies that are parallel to one another. There is good correspondence with a Pb anomaly from this same area. Zinc responses are scattered and low-contrast elsewhere on the grid.



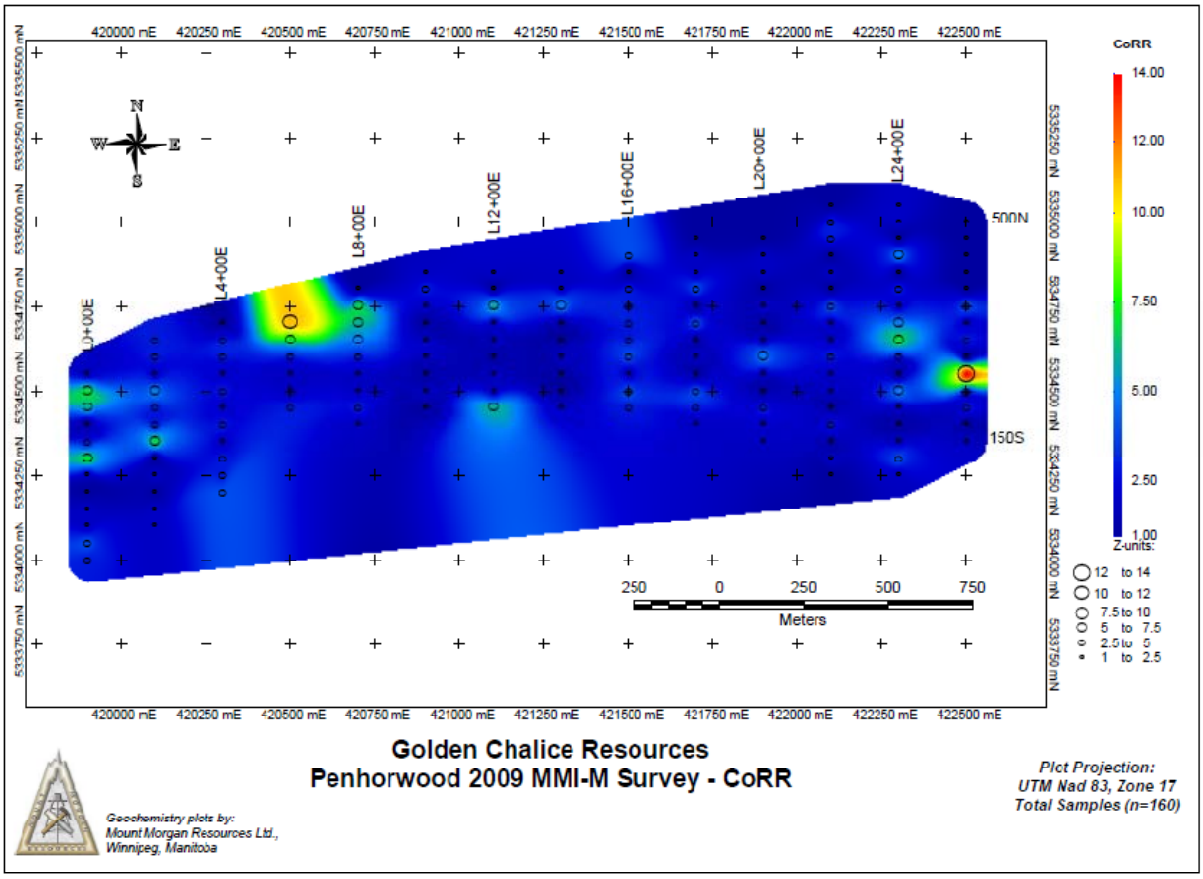
CdRR (1-20): The Cd responses from the grid are coincident with those for Zn and accordingly are interpreted as *bona fide* base metal Zn-Cd anomalies attributable to bedrock-hosted mineralization. The responses are low-contrast and east-west-trending. The Cd anomaly, together with the Zn anomaly, appear to be open to the north on lines 16+00E through 21+00E.



NiRR (1-32): A northwest-trending Ni anomaly developed between line 8+00E and 9+00E trends off of the grid. This is the only response of significance documented in the survey and could be related to the presence of either mafic to ultramafic flows and intrusive mapped in this area and presented in the West Timmins geological compilation attached to this report. The anomaly is low- to moderate-contrast with the highest response of 32 times background occurring at the north end of line 6+00E. This response could be the signature of either a mafic or ultramafic lithology or Ni-sulphide mineralization contained within this lithology.

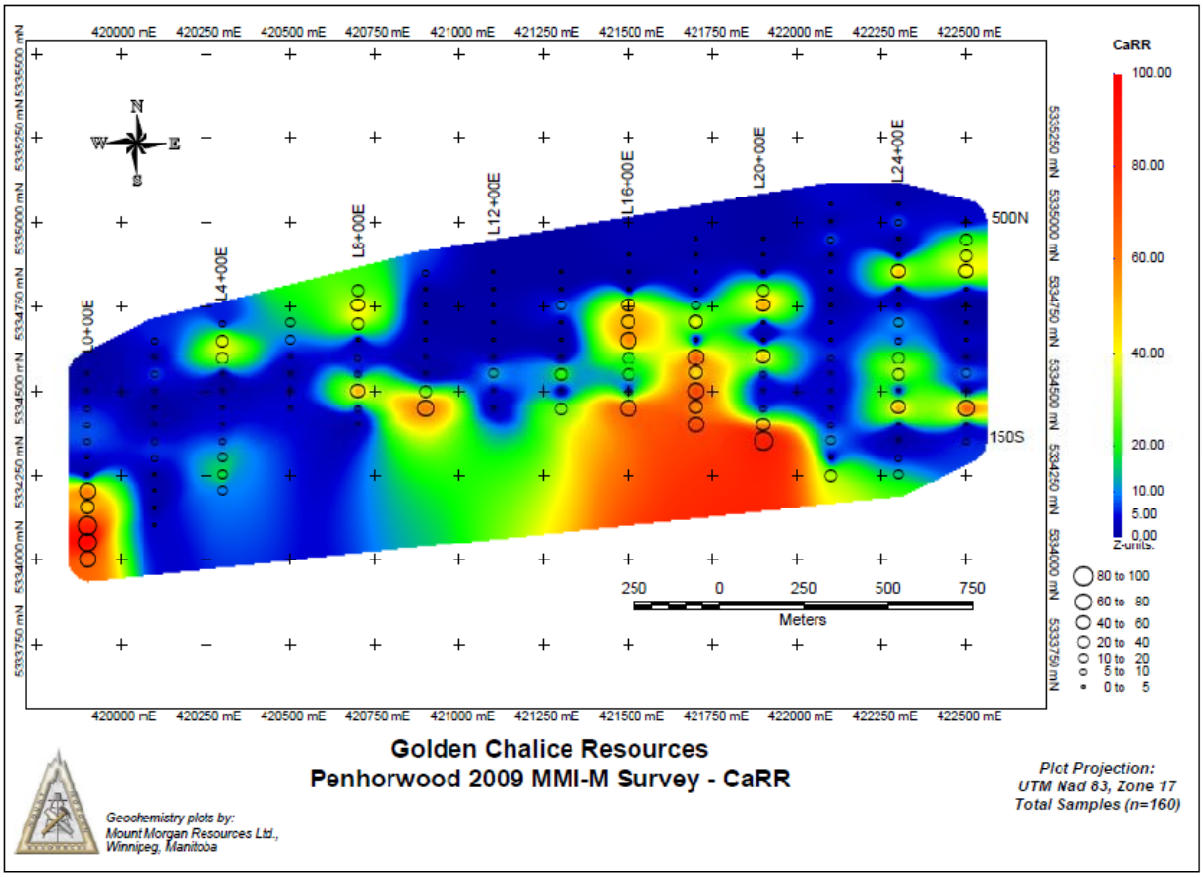


CoRR (1-14): Anomalous Co responses are scarce on the grid however there are two widely separated and distinctive responses present. One occurs at the eastern extremity of the grid on line 25+00E and is the highest RR on the grid at 14 times background. The other elevated response is coincident with the peak Ni response on line 6+00E. The presence of elevated Co responses in MMI-M data has been interpreted to reflect the presence of iron sulphide mineralization.

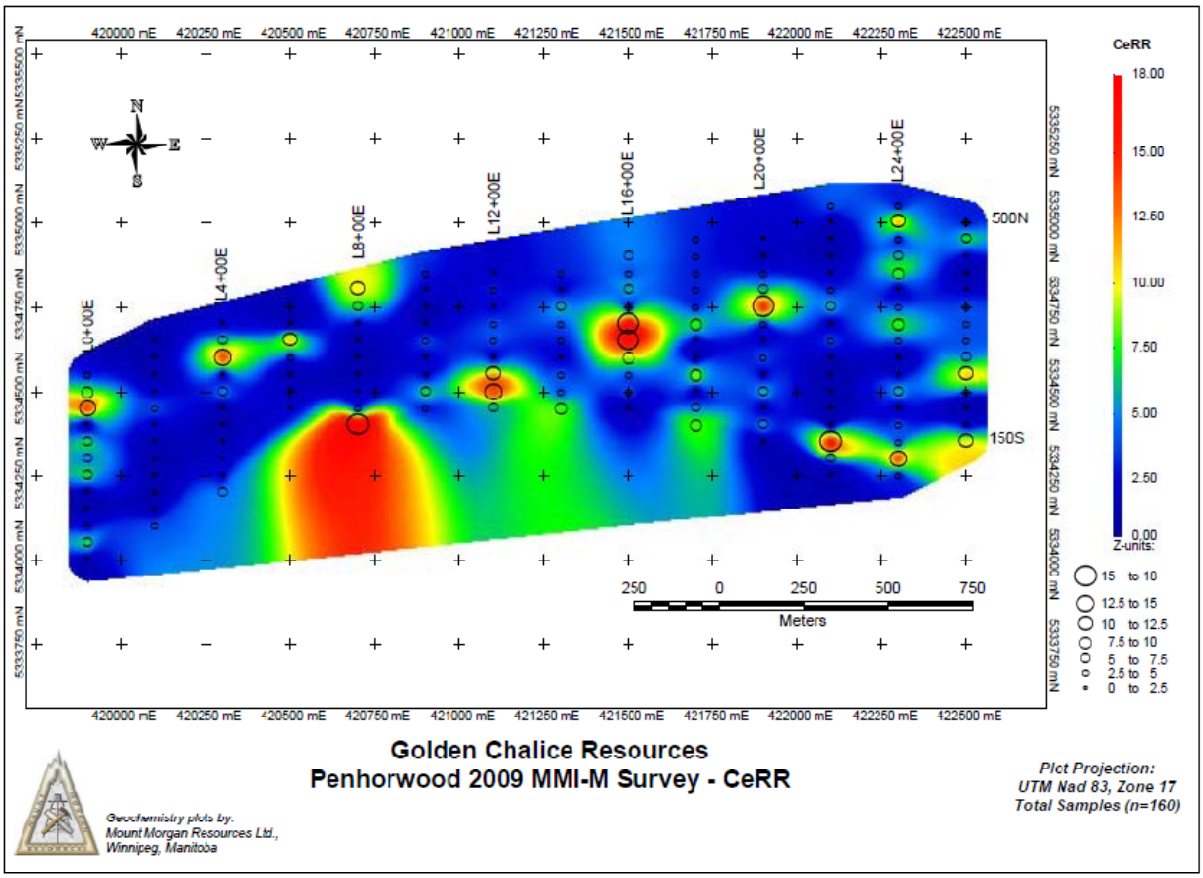


Lithologically-Sensitive Elements (Ca, Ce, Mg, Nb, Sr, Ti, U, Ni/Cr)

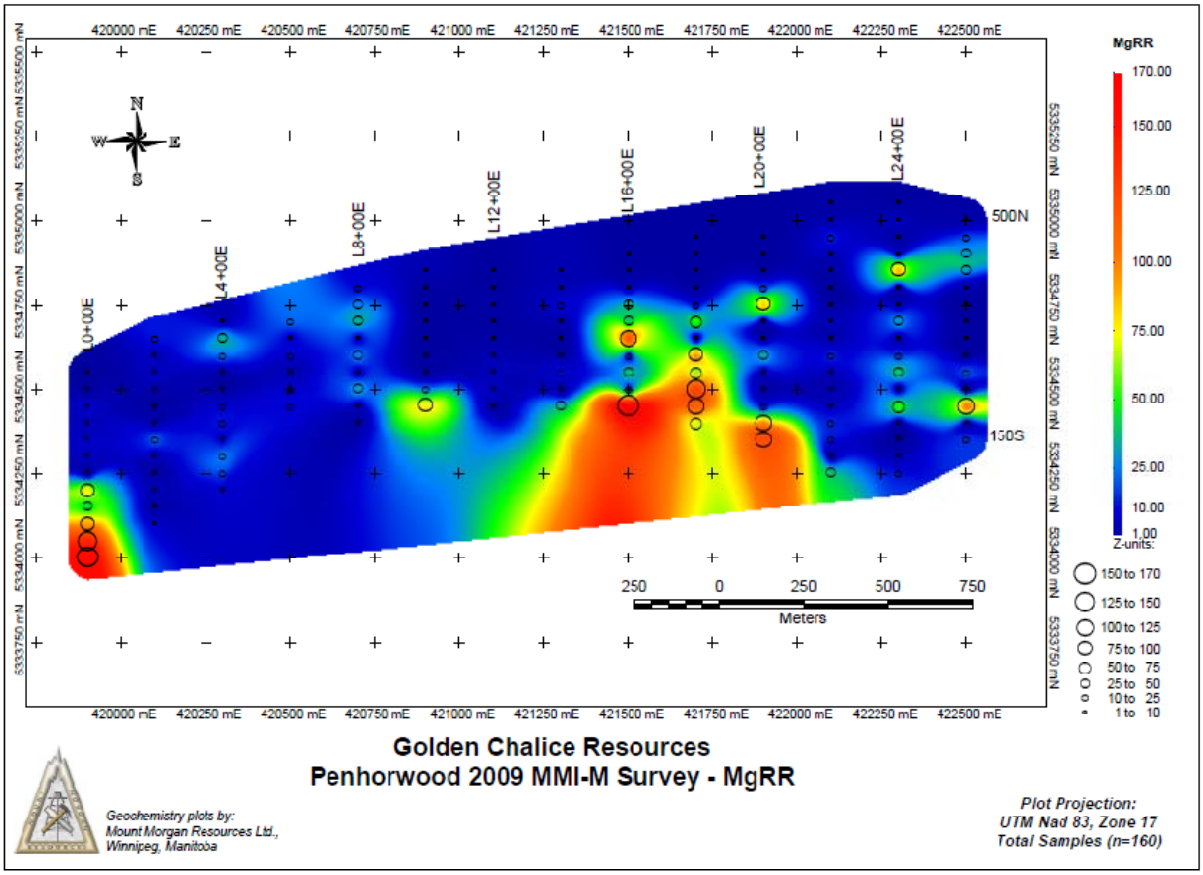
CaRR (1-100): The Penhorwood grid is marked by laterally extensive CaRR with maximum values of 100 times background. These responses are likely due to the presence of a distinctive lithology underpinning the survey area. From available geologic information this could be attributable to either the quartz+/- feldspar porphyry intrusion ("QFP") or the mafic/ultramafic lithologies that are in contact with the QFP on its north side.



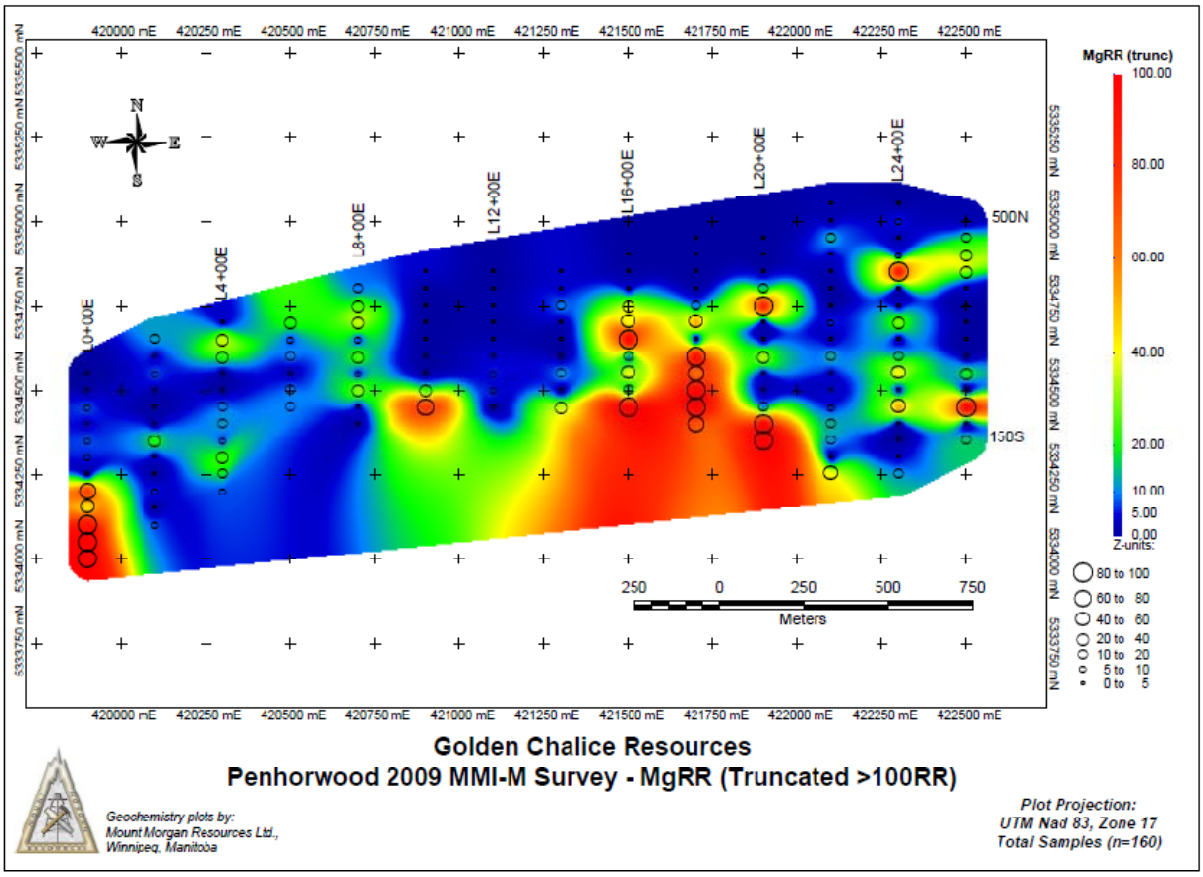
CeRR (1-18): Cerium responses in the grid are of very low-contrast (<20 times background) but are marked by a distinct linearity. Normally, Ce is depleted in ultramafic rocks and the very low responses observed in this study would tend to suggest the presence of ultramafic rocks on the grid. It is suggested that the Ce responses demarcate the presence of the ultramafic rocks on the Penhorwood grid. The presence of the Ce anomalies would suggest the presence of these lithologies from the southernmost sampling sites on the grid through to the northwestern grid area. The northwest grid area is also marked by a Ni-Co anomaly and a Zn-Cd-Pb anomaly.



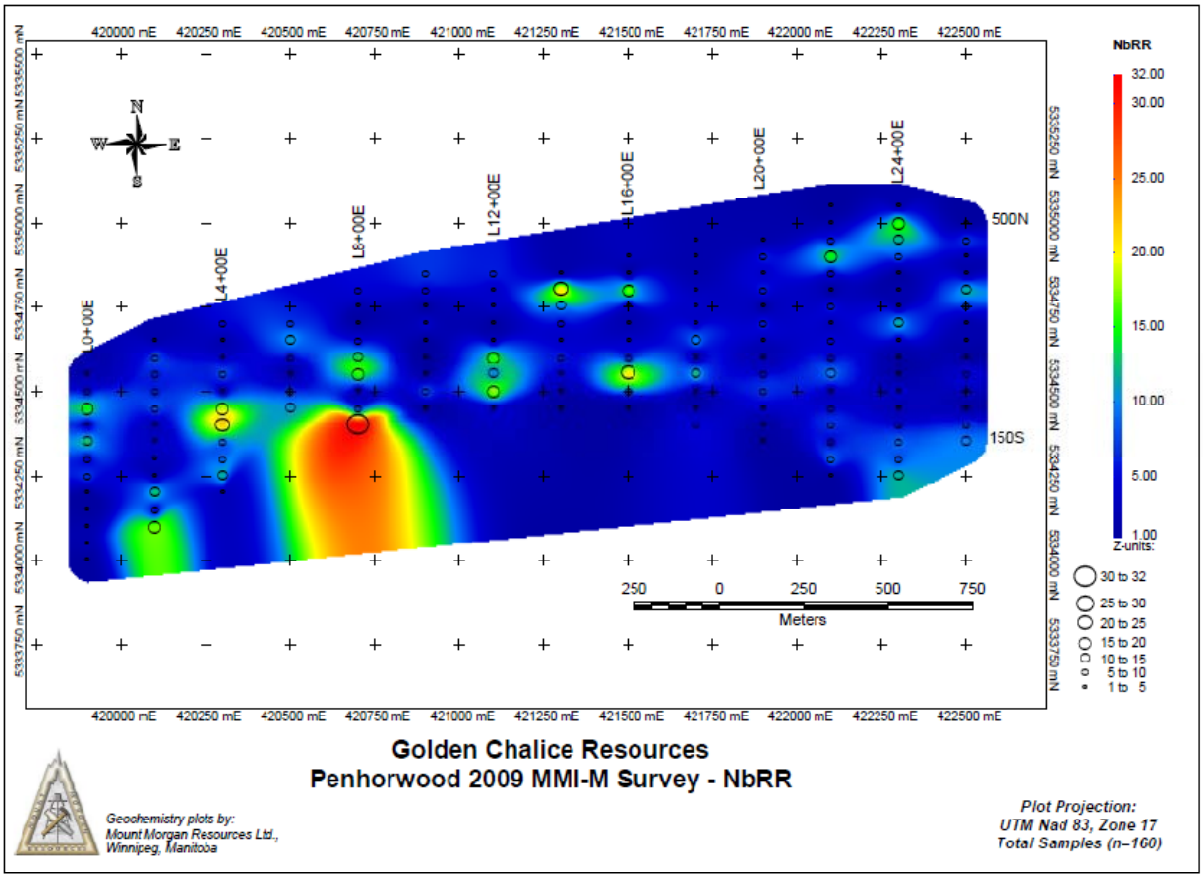
MgRR (1-170): The MgRR on the grid are closely coincident with those for CaRR with the highest responses occurring at the southern extremity of grid lines 16+00E, 18+00E and 20+00E. There is also a series of widely separated single sample responses trending northeast between lines 10+00E and 24+00E that coincide closely with the CaRR as well. If the southernmost samples on grid lines 16+00E to 20+00E are present along the southern contact of the mafic/ultramafic lithology mapped in this area then this could be taken to represent layering in an ultramafic rock with the more Mg-rich bed residing at the southern contact with the QFP. The last 5 samples on the southern portion of line 0+00E are also strongly elevated in Mg and may delineate additional ultramafic lithologies in this area. It is noted there are no elevated Mg responses associated with the Ni-Co anomaly in the northwest grid area. Truncated data (>100RR) plots essentially demonstrate the same pattern of response



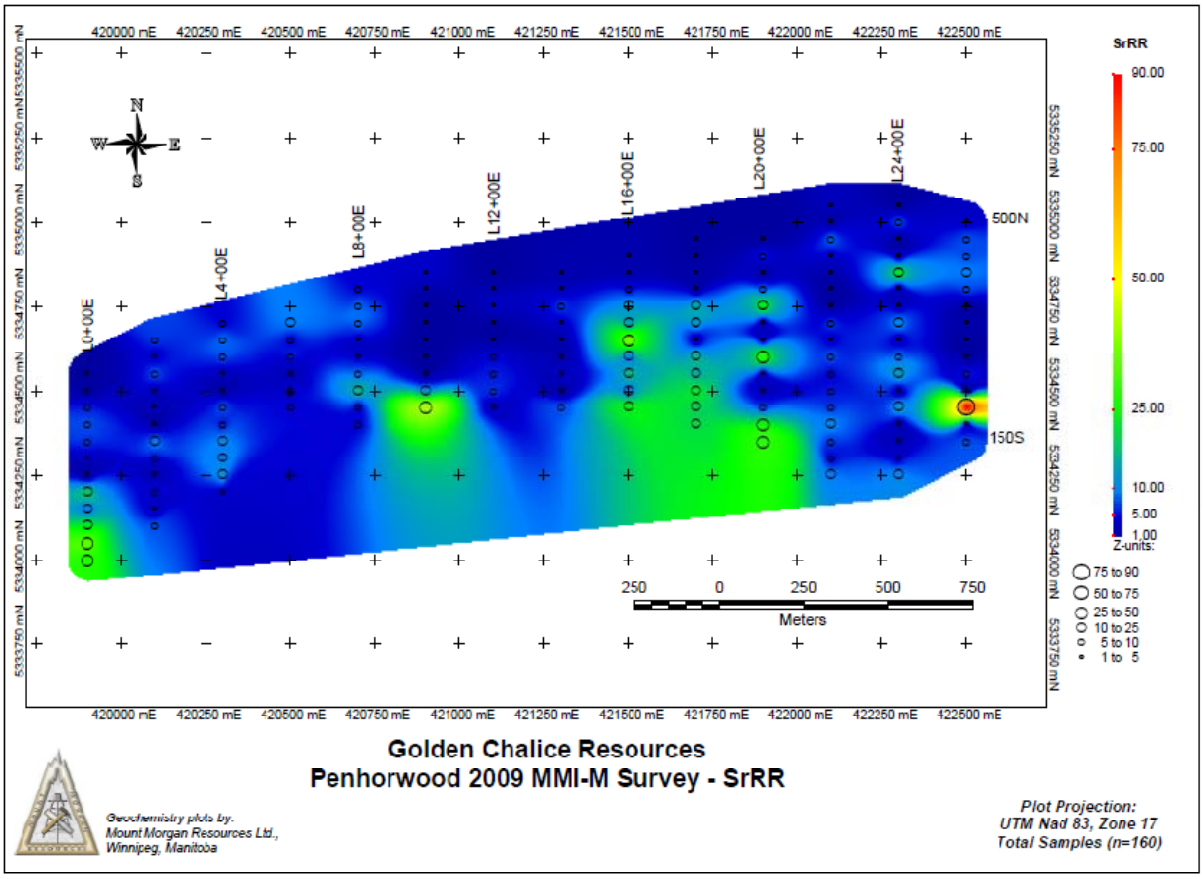
MgRR Truncated



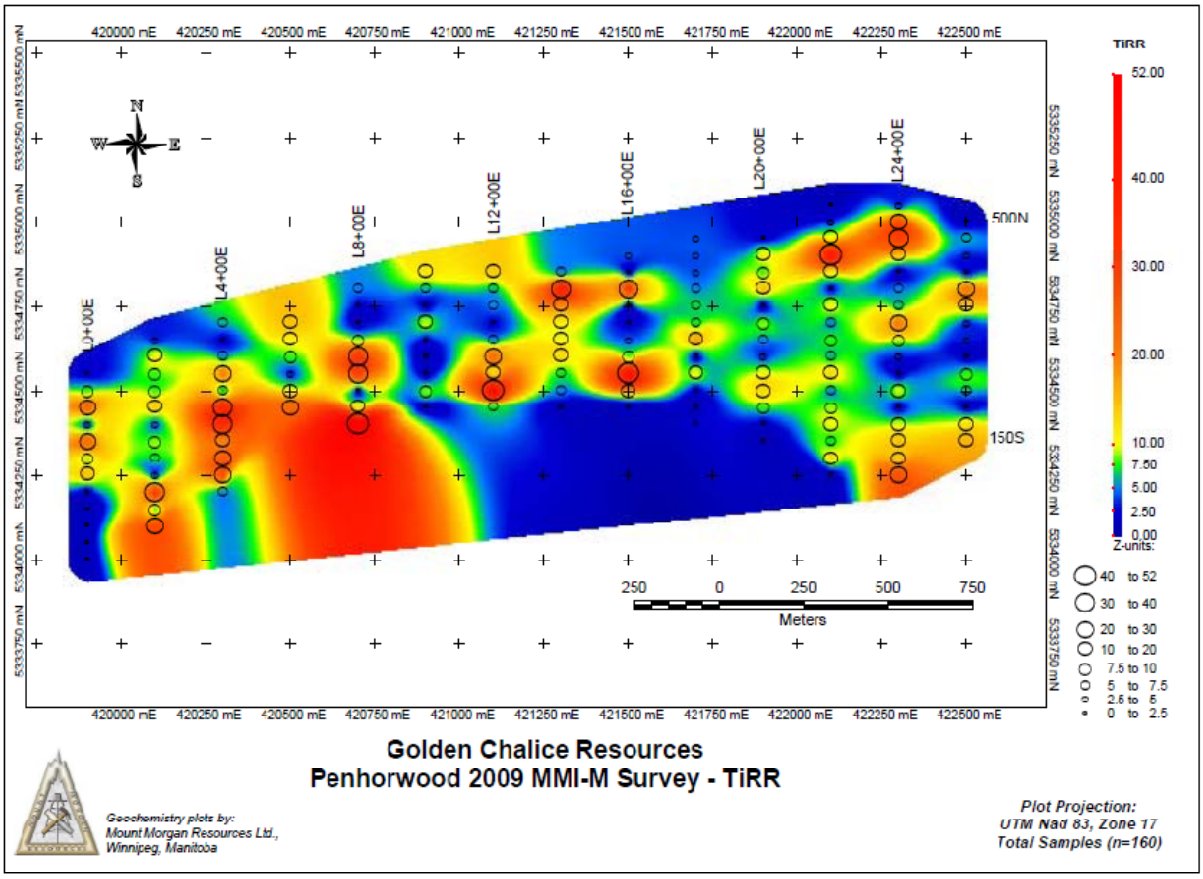
NbRR (1- 32): Low- to moderate-contrast Nb responses occur as single site or locally 2-sample elevated responses on the grid. The general trend to the responses is east to east-northeast with a preference for these responses to occur along the southern extremity of the grid. There is some correspondence between the Ca, Mg and Nb responses on the grid however those for Nb are more diffuse. Niobium has been demonstrated to be an excellent lithologic element for both carbonatite and kimberlite.



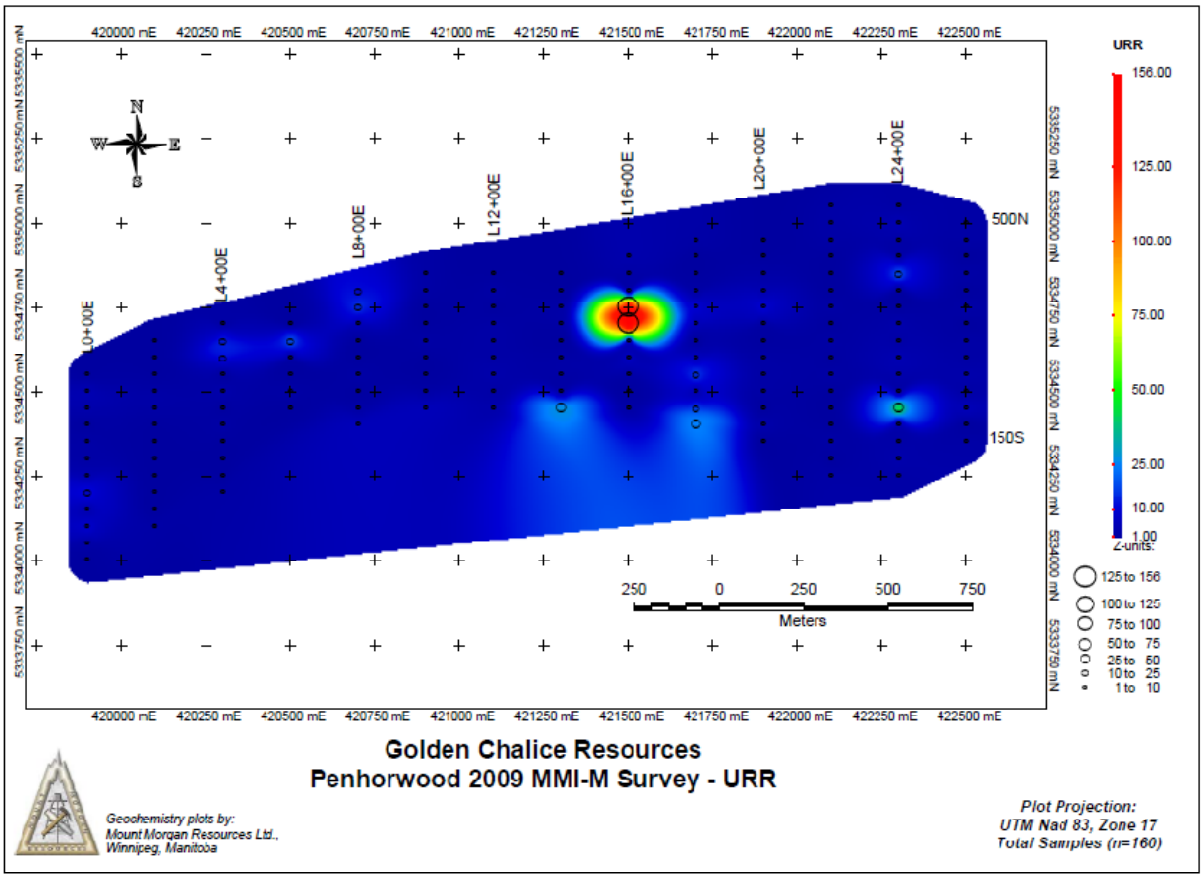
SrRR (1-90): The bulk of the elevated responses for Sr are moderate-contrast and correspond closely with the CaRR and MgRR discussed above. The bulk of the elevated responses are also situated at the southern portions of the sampling lines including the highest response of 90 times background. Like the interpretation for Ca and Mg the elevated Sr responses could be the signature of either the QFP or the mafic/ultramafic lithologies mapped in the area.



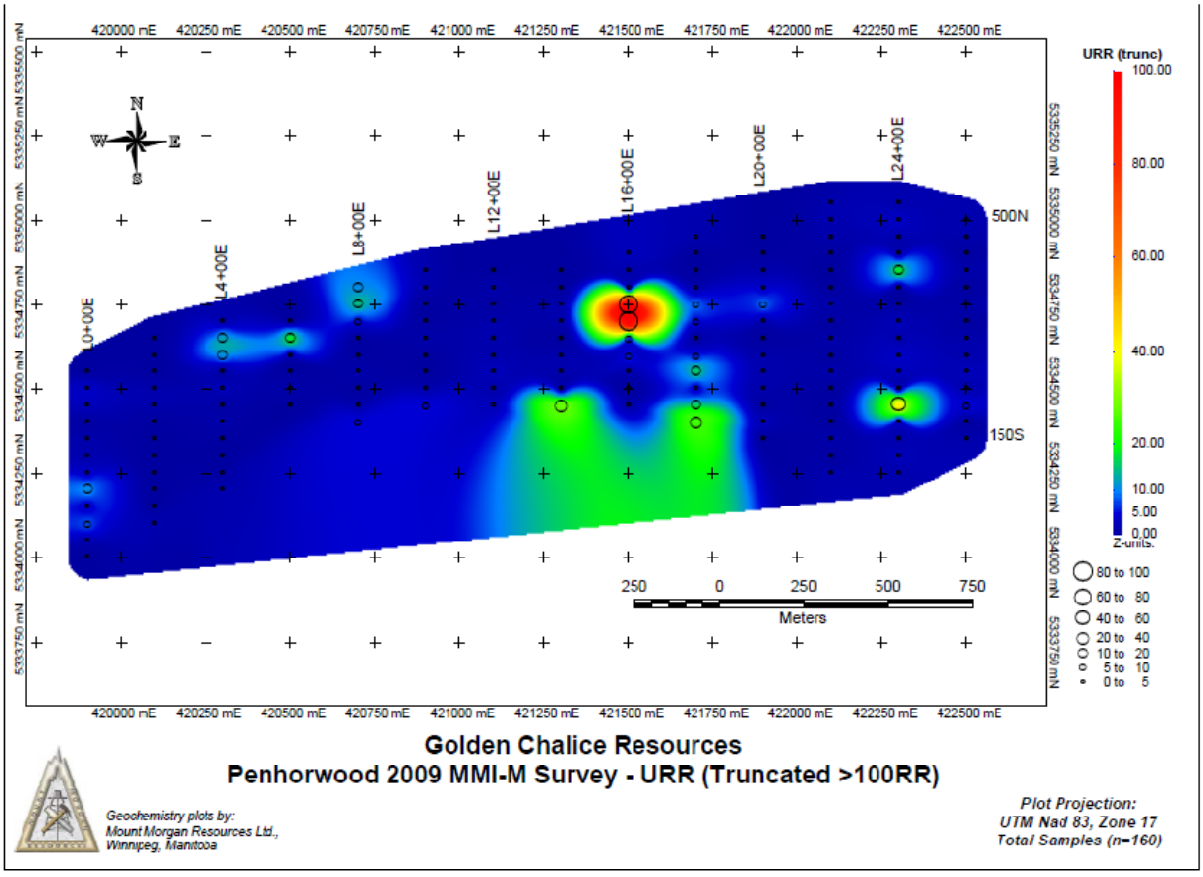
TiRR (1-52): Distinctively elevated Ti responses are present over much of the Penhorwood grid with an east-northeast orientation and seemingly higher responses along the southern boundary of the sampling lines. The Ti response is suggested to be related to mafic/ultramafic lithologies in the survey area and in particular to the flows and associated intrusions in contact with the QFP. There is a reasonable indication from Ca, Mg, Sr and Ti data that the more Mg-rich portions of the mafic stratigraphy occurs on the south side.



URR (1-156): Two adjacent very high-contrast URR are present on line 16+00E and are significantly higher than most other responses for U in this survey. Truncated data does little to improve the pattern of response because most other URR are quite low. In other surveys conducted in glaciated terrain the interpretation for elevated URR has been attributed to the presence of felsic intrusive lithologies. There are also three other low-contrast URR on the grid all of which at or near the southern portions of the sampling lines. The high-contrast URR are attributed to the presence of a felsic dyke, possibly related to the QFP intrusion.

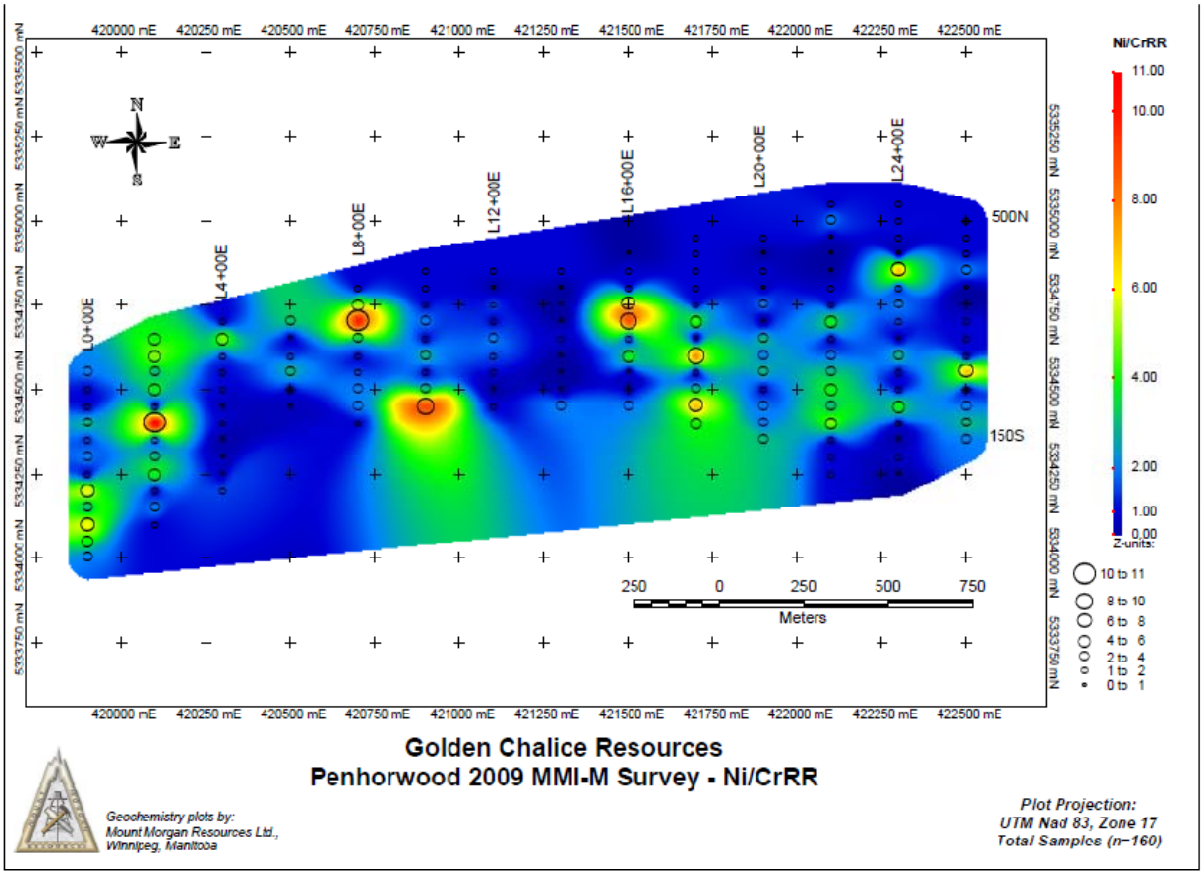


URR Truncated



NiRR/CrRR (1-11): The NiRR/CrRR ratio is a useful ratio to determine which Ni responses in MMI-M data are derived from mafic/ultramafic lithologies and which are related to Ni-sulphide mineralization. This is based on the inability of crystallizing melts to incorporate significant amounts of Ni in the lattice of silicate minerals as compared to Cr. The presence of an elevated NiRR/CrRR ratio suggests the majority of the Ni is attributed to Ni-sulphide since Cr values will be lower, less likely to be moving from mineralized source to surface and resident in silicate or oxide minerals.

The Penhorwood grid is marked by a number of elevated NiRR/CrRR ratios and it is noted that one of these elevated responses is coincident with the Ni-Co anomay developed on line 6+00E and 8+00E. Areas where elevated NiRR/CrRR are observed should become immediate targets for follow-up exploration.



OBSERVATIONS

The following observations flow from this MMI-M survey at the Penhorwood property of Golden Chalice Resources Ltd.

1. There are four distinctive anomalous responses on the grid. These include:

(i) Ni-Co-Ni/Cr with Ca, Ce and Mg (Lines 6+00E through 8+00E)

(ii) Zn-Cd-Pb (Lines 2+00E through 6+00E; northwest corner of grid)

(iii) Zn-Cd (North end of lines 16+00E through 24+00E; a second anomaly at the south end of lines 18+00E through 22+00E)

(iv) Cu-Ca-Mg-Sr (Lines 16+00E through 20+00E).

2. The host rocks to these anomalous responses are interpreted to be quartz-feldspar porphyry intrusions and mafic to ultramafic lithologies that have been mapped in the area according to MNDM geological compilations.
3. The anomalies vary from low-contrast to high-contrast and are single- to multi-sample in character.
4. Data is interpreted to be both accurate and reproducible based on element associations.
5. Based on the quality of the analytical data the sample collection has been methodical and consistent.
6. The materials sampled are appropriate for MMI-M surveys.

Mark Fedikow Ph.D. P.Eng. P.Geo. C.P.G.

Mount Morgan Resources Ltd.

Lac du Bonnet, Manitoba

R0E 1A0

CERTIFICATE of AUTHOR

Mark A.F. Fedikow, HB.Sc., M.Sc., Ph.D., P. Eng. P.Geo. C.P.G.

Consulting Geologist and Geochemist

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Lac du Bonnet, Manitoba R0E 1A0

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Cell: 204-998-0271

Email: mfedikow@shaw.ca

I, Mark A.F. Fedikow, HB.Sc., M.Sc., Ph.D., P.Eng. P.Geo., C.P.G. do hereby certify that:

1. I am currently a self-employed Consulting Geologist/Geochemist with a field office at:

50 Dobals Road North

P.O. Box 629

Lac du Bonnet, Manitoba R0E 1A0

2. I graduated with a degree in Honors Geology (B.Sc.) from the University of Windsor (Windsor, Ont.) in 1975. In addition, I earned a M.Sc. in geophysics and geochemistry from the University of Windsor and a Doctor of Philosophy (Ph.D.) in exploration geochemistry from the School of Applied Geology, University of New South Wales (Sydney) in 1982.

3. I am a Member of the Association of Professional Engineers and Geoscientists of Manitoba. I am also a Fellow of the Association of Applied Geochemists, and a Member of the Prospectors and Developers Association of Canada. I hold valid Prospectors licenses in Manitoba and Ontario. I am registered as a Certified Professional Geologist with the American Institute of Professional Geologists (Colorado, U.S.A.).

4. I have worked as a geologist for a total of thirty-four years since my graduation from university; as a graduate student, as an employee of major and junior mining companies, the Manitoba Geological Survey and as an independent consultant.

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 the technical report titled "Preliminary Review of the Results of A Mobile Metal Ions Process (MMI-M) Soil Geochemical Survey (2009) on the Penhorwood Property of Golden Chalice Resources Inc.".

7. 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.

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

9. I consent to the filing of the Technical Report with any stock exchanges or other regulatory authority and any publication by them, including electronic publication in the public company files on the web sites accessible by the public, of the Technical Report.

Dated this 16th Day of November, 2009

_____.

Signature of Qualified Person

"M.A.F. Fedikow" .

Print name of Qualified Person

Mark Fedikow

Mount Morgan Resources Ltd.

Winnipeg, Manitoba

Mark Fedikow

APPENDIX D CERTIFICATE OF EXPENDITURES

Golden Chalice Resources Inc.
Penhorwood Property
Timmins West Project
Geochemical Survey Program
October 17, 2009 to November 17, 2009

Program Supervision			$ 630.00
Soil Sample Collection			$ 6,927.00
Soil Sample Transport to Lab			$ 252.00
Soil Sample Geochemical Analysis			$ 21,042.00
SGH Soil Analysis	$	9,366	
MMI Soil Analysis	$	6,258	
1H Soil Analysis	$	5,418	
Report Writing & Map Drafting			$ 2,520.00
TOTAL			$ 31,371.00

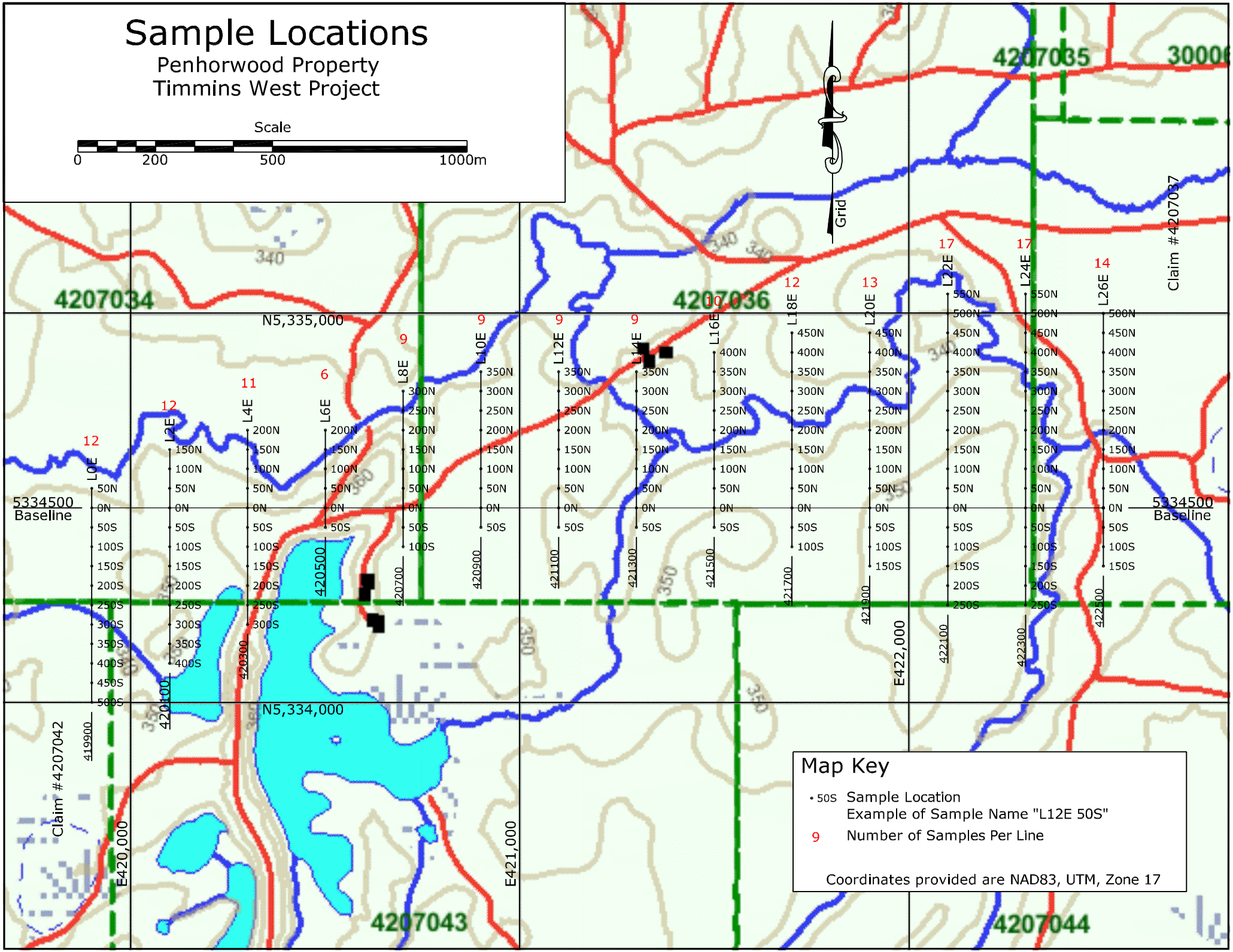
Distribution of Expenditures per Claim

Claim No	Total of sample sites on claim	Portion of program/160	Expenditure on claim
4207034	39	0.24	7,529
4207036	109	0.68	21,332
4207042	6	0.04	1,255
4207043	6	0.04	1,255

Certified by: *J Kevin Montgomery*

Date: November 17, 2009

Note: This certificate has been constructed from the Detailed Cost Accounting Ledgers of Golden Chalice Resources.


Sample Locations
Penhorwood Property
Timmins West Project
Scale
0
200
500
1000m
Grid
4207034
4207035
4207036
4207037
4207042
4207043
4207044
N5,335,000
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5334500
Baseline
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E421,000
E422,000
L0E
L2E
L4E
L6E
L8E
L10E
L12E
L14E
L16E
L18E
L20E
L22E
L24E
L26E
Claim #4207037
Claim #4207042
Map Key
50S Sample Location
Example of Sample Name "L12E 50S"
9 Number of Samples Per Line
Coordinates provided are NAD83, UTM, Zone 17