

ASSESSMENT REPORT, 2011 GEOCHEMICAL SAMPLING PROGRAM

GRAYLING PROPERTY

WATSON LAKE MINING DIVISION, YUKON, CANADA
NTS MAP SHEET: 105F/10, NAD83 ZONE 8N
628595 E, 6823558 N (NAD83-8N)

CLAIMS AND OWNER:

Claim Name	Number	Grant Number	Registered Owner
GRAYLING	1 - 20	YD07801 - YD07820	Silver Predator Canada Corp. - 100%
GRY	1 - 18	YD143464 – YD143481	Silver Predator Canada Corp. - 100%

PERIOD OF WORK: SEPTEMBER 16 – 18, 2011

OPERATOR:

SILVER PREDATOR CANADA CORP.

201A-170 Titanium Way
Whitehorse
Yukon, Y1A 0G1

June 24th, 2012

Prepared by:

Karin Fecova, M.Sc.

TABLE OF CONTENTS

TABLE OF CONTENTS.....	2
LIST OF FIGURES	2
LIST OF TABLES	2
LIST OF APPENDICES	3
1.0 INTRODUCTION	4
2.0 PROPERTY LOCATION AND DESCRIPTION	4
3.0 INFRASTRUCTURE, CLIMATE AND PHYSIOGRAPHY	6
4.0 EXPLORATION HISTORY (Holbek and Wilson 1999).....	6
5.0 GEOLOGY	6
5.1 Regional Geology (Holbek and Wilson 1999).....	6
5.2 Property Geology (Holbek and Wilson 1999)	9
6.0 2001 EXPLORATION.....	11
6.1 Exploration Program	11
6.2 Sampling Methodology and Protocols	12
6.3 Results.....	12
7.0 CONCLUSIONS AND RECOMMENDATIONS	13
8.0 2011 EXPENDITURES.....	13
9.0 STATEMENT OF AUTHORSHIP	14
10.0 REFERENCES	15

LIST OF FIGURES

Figure 2-1. GRAYLING Property Location, Yukon Territory	4
Figure 2-2. GRAYLING Project Claim Map.....	5
Figure 5-1. Regional Geology of the GRAYLING area	8

LIST OF TABLES

Table 2-1. GRAYLING claim information.....	4
Table 5-1. Regional Lithological units (after Gordey and Makepeace, 2001).....	7
Table 8-1. 2011 Expenditures	13



LIST OF APPENDICES

Appendix 1	Certificate of Author
Appendix 2	Analytical Summary and Sample Descriptions
Appendix 3	Assay Certificates
Appendix 4	Description of Analytical Methods and Detection Limits
Appendix 5	Soil Geochemical Plots for Select Elements



1.0 INTRODUCTION

The Grayling property consists of 38 contiguous mineral claims covering an area of approximately 740 hectares, located along the McConnell River on Pass Peak map sheet (NTS 105F/10) in the south-central Yukon. Silver Predator Canada Corp. has a 100% undivided interest in the property and is targeting zinc, lead and silver potential. This report describes the work completed in the 2011 field season from September 16th to 18th which consisted of grid soil sampling.

2.0 PROPERTY LOCATION AND DESCRIPTION



The property is located along the McConnell River in the south-central Yukon. It lies 40 km south of Ross River, YT (Figure 2-1). It can be accessed by helicopter from Ross River. The crew can be housed at the Ketza River mine site located approximately 15 km to the east. The property is located in the Watson Lake Mining District, and consists of 38 contiguous mineral claims covering an aggregate area of 740 hectares (Table 2-1, Figure 2-2).

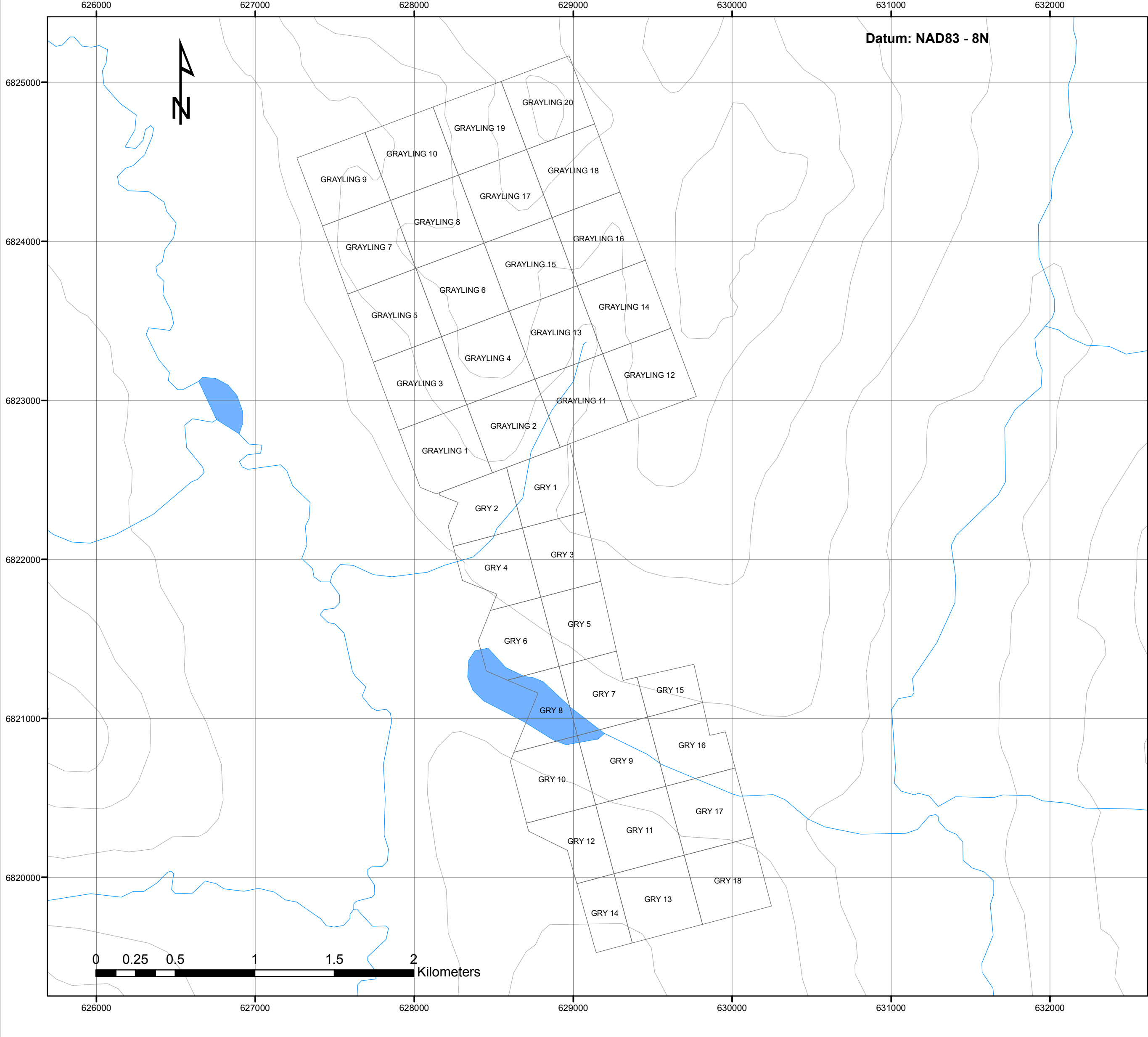
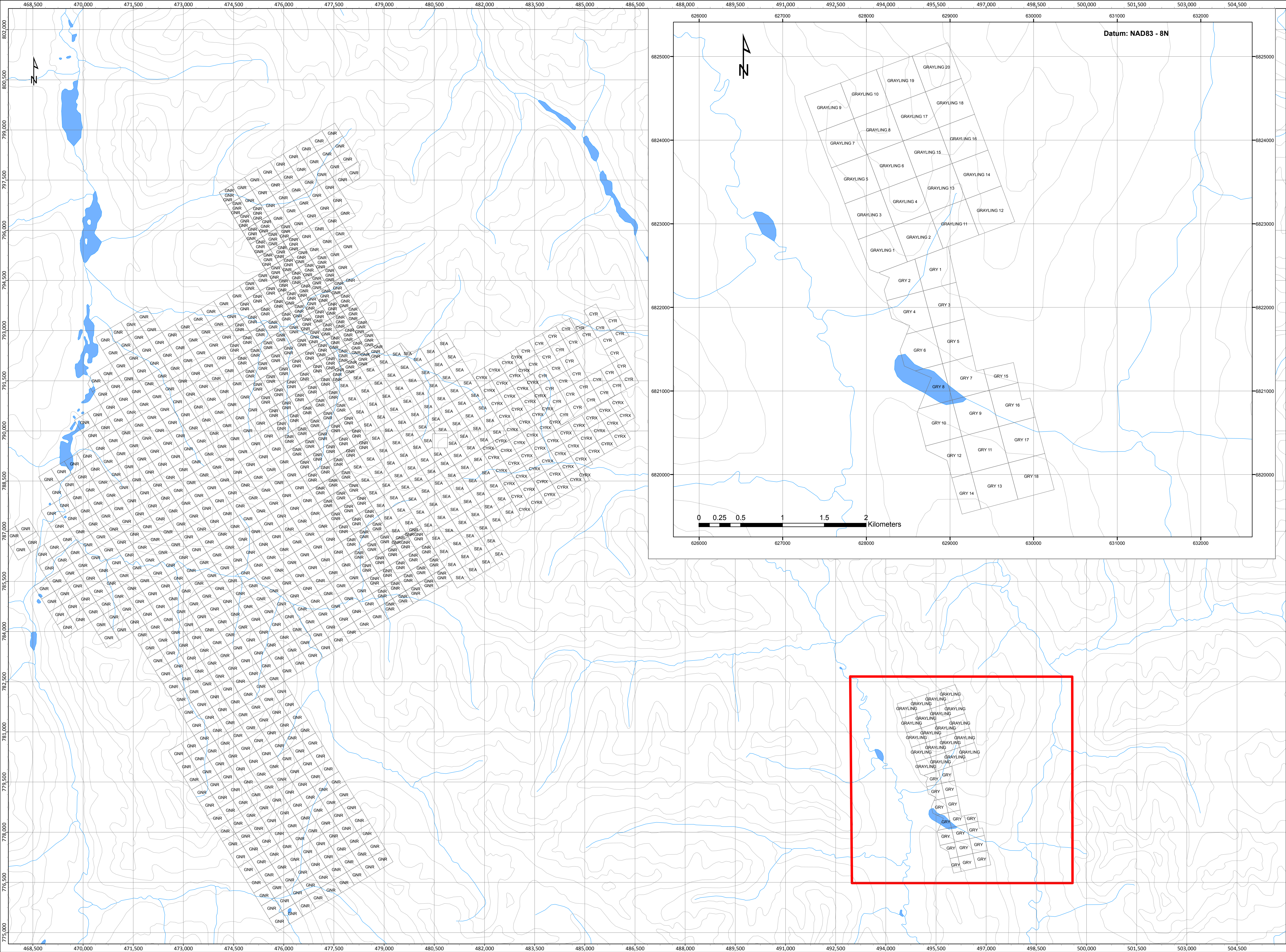
Figure 2-1. GRAYLING Property Location, Yukon Territory

Table 2-1. GRAYLING claim information

Claim Name	Number	Grant Number	Registered Owner	Expiry Date
GRAYLING	1 - 20	YD07801 - YD07820	Silver Predator Canada Corp. -	11/09/2012
GRY	1 - 18	YD143464 – YD143481	Silver Predator Canada Corp. -	14/04/2012

Figure 2-2. GRAYLING Project Claim Map





Legend

SPD_AllClaims

Detail_On_Claims

250K_Waterbody_Areas

Waterbody

250K_Watercourse_Lines

Watercourse

250K_Contour_Lines

Contour (20m)

Depression

Elevation



GRAYLING Property

Claim Map

0 1,000 2,000 3,000
Meters

Scale:	1:50,000	Map ID:	--
Draw Date:	2012/01/13	Rev. Date:	--
Version:	1	Figure:	2 - 2
Author:	K. Fecova	Office:	Vancouver
Location:	64 km S of Ross River, Yukon Territory		
Projection:	NAD 1983 Yukon Albers		
Filename:	GRA20120605_Claim_Map		

3.0 INFRASTRUCTURE, CLIMATE AND PHYSIOGRAPHY

The centre of the property is located at 628595 E, 6823558 N (NAD83, zone 8N). The nearest settlement is Ross River, which is located at ~ 40 km north of the property.

The claims cover sub-alpine to alpine terrain within the St Cyr range of the Pelly Mountains. Elevations on the claim group range from 1,220 to 1,830 metres. The majority of the claim block is covered with a thin veneer of talus or colluvium. Overall outcrop exposure averages less than 10% (Holbek and Wilson 1999).

The property lies within the Pelly Mountains ecoregion, extending from the Pelly and northern Cassiar Mountains in British Columbia and the Yukon. The mean annual temperature in this ecoregion is approximately -3°C with a summer mean of 10.5°C and a winter mean of -17.5°C. Mean annual precipitation is 500-1000 mm, varying with elevation (<http://ecozones.ca/english/region/178.html>).

4.0 EXPLORATION HISTORY (Holbek and Wilson 1999)

Atna Resources Ltd. optioned the claims from Oro Bravo Resources Ltd. as part of a larger property in 1997 after discovering the Wolf massive sulphide deposit within similar rocks 60 km southeast of the Mat (Grayling) claims. Evidence of past hand trenching was found on the claims but written record of this work was not found.

During the 1998 field season, geological mapping, and soil sampling was carried out on the Mat (Grayling) claim block. Two contour soil lines were done on a gossan- slope at the northern end of the Mat (Grayling) claims, and twenty-four samples were collected. An additional set of contour soil lines were run across the stratigraphic sequence, on the south slope above the McConnel River, immediately southeast of the Mat (Grayling) property and on the adjoining claims of the Mamu property. Data from these lines does not indicate the presence of a mineralized horizon trending onto the Mat (Grayling) claims. Geological mapping on the Mat (Grayling) claims was completed in conjunction with work done on the Mamu-Kulan-Bravo claims.

5.0 GEOLOGY

5.1 Regional Geology (Holbek and Wilson 1999)

The volcano-sedimentary rocks which host the Wolf and MM deposits as well as the Mat (Grayling) claims form a narrow arcuate belt that extends 80 kilometres along a northwesterly trend within the Pelly Mountains of the southern Yukon. These rocks have been termed the Pelly Mountains Volcanic Belt (PMVB) by Hunt (1999) and are characterized by high potassium content and, locally, bedded barite and volcanogenic massive sulphide deposits and showings. The PMVB is early to middle Paleozoic in age and occurs within the Pelly-Cassiar Platform, considered to be part of ancestral North America (Tempelman-Kluit 1977). The tectonic



framework for the Pelly Mountains area is described by Gabrielse and Yorath (1991), Templemen-Kluit and Blusson (1977); and Gordey (1977).

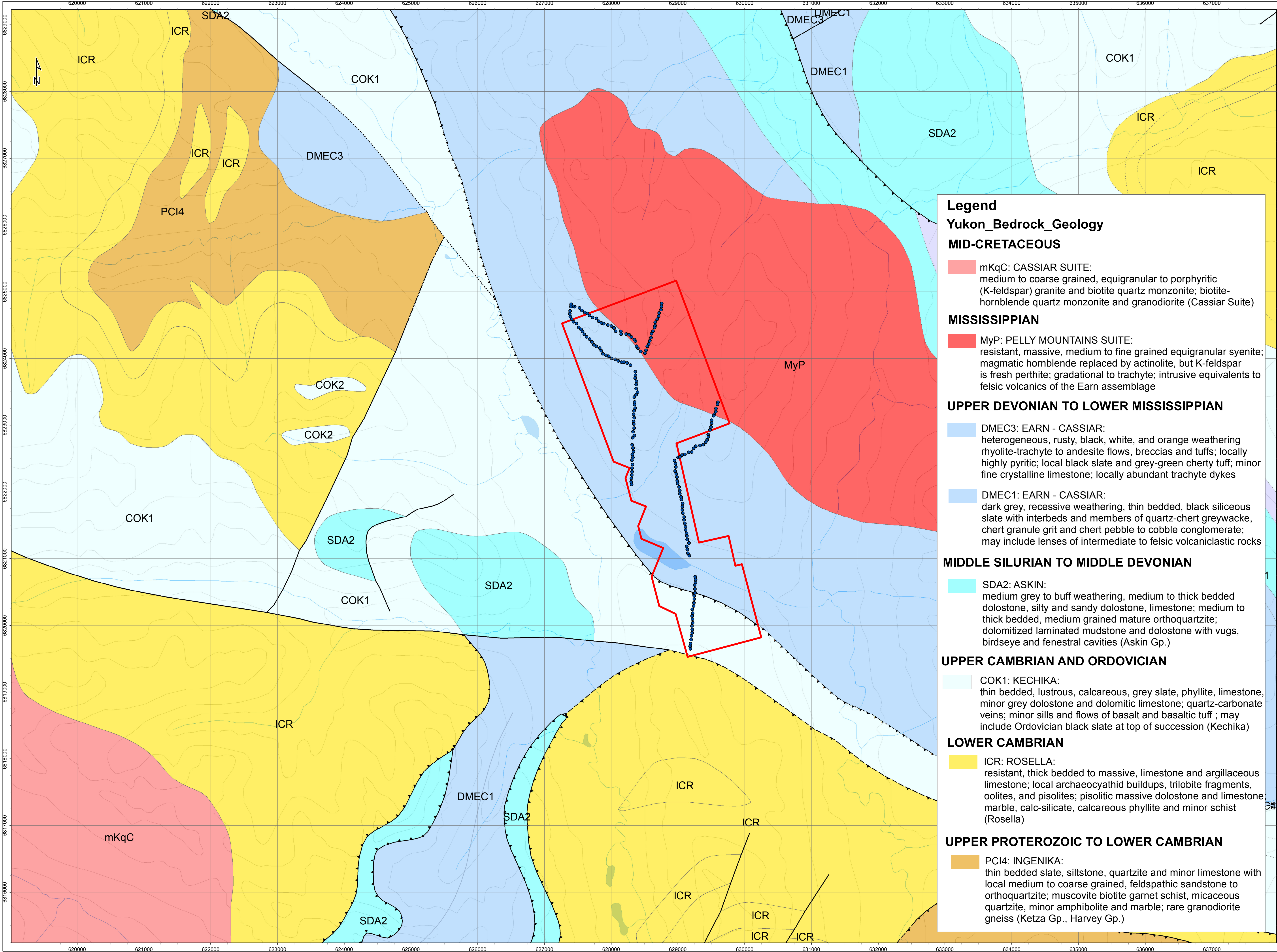
The major lithological units in the GRAYLING area are described in Table 5-1 and their distribution is shown on Figure 5-1 (after Gordey and Makepeace, 2001).

Table 5-1. Regional Lithological units (after Gordey and Makepeace, 2001)

Name	Age	Unit	Description
Cassiar Suite	Mid-Cretaceous	mKqC	Light grey weathering, homogenous, porphyritic medium-grained biotite quartz monzonite
Pelly Mountain Suite	Mississippian	MyP	Resistant, massive, medium to fine grained equigranular syenite; magmatic hornblende replaced by actinolite, but K-feldspar is fresh perthite; gradational to trachyte; intrusive equivalents to felsic volcanics of the Earn assemblage
Earn Group	Upper Devonian to Lower Mississippian	DMEC1	Dark grey, recessive weathering, thin bedded, black siliceous slate with chert pebble conglomerate and rare lenses of intermediate to felsic volcanoclastic rocks.
		DMEC3	Heterogeneous, rusty, black, white, and orange- weathering rhyolite-trachyte to andesite flows, breccias and tuffs.
Askin Group	Middle Silurian to Middle Devonian	SDA2	Medium grey to buff weathering, medium to thick bedded dolomite, silty and sandy dolomite, limestone, and medium to thick bedded orthoquartzite .
Kechika Group	Upper Cambrian to Lower Ordovician	COK1	Basinal, fine grained, calcareous pelitic strata containing thin bedded, lustrous, calcareous grey slate, phyllite, limestone, minor grey dolomite and dolomitic limestone; quartz-carbonate veins; minor sills and flows of basalt.
		COK2	Massive, dark green and maroon amygdaloidal basalt flows and volcanoclastics; medium to fine grained diabase or diorite sills with chilled margins, medium grey, chlorite muscovite quartz phyllite with abundant undifferentiated lenses of "greenstone"
Rosella Group	Lower Cambrian	ICR	Resistant, thick bedded to massive, limestone and argillaceous limestone with local archaeocyathid buildups, trilobite fragments, and oolites; pisolitic massive dolomite and limestone; marble, calc-silicate, calcareous phyllite and minor schist.
Ingenika Group	Upper Proterozoic to Lower Cambrian	PCI4	Buff weathering, resistant muscovite-biotite granodiorite gneiss and augen gneiss.

Figure 5-1. Regional Geology of the GRAYLING area





Legend
Yukon_Bedrock_Geology
MID-CRETACEOUS
mKqC: CASSIAR SUITE:
medium to coarse grained, equigranular to porphyritic (K-feldspar) granite and biotite quartz monzonite; biotite-hornblende quartz monzonite and granodiorite (Cassiar Suite)
MISSISSIPPIAN
MyP: PELLY MOUNTAINS SUITE:
resistant, massive, medium to fine grained equigranular syenite; magmatic hornblende replaced by actinolite, but K-feldspar is fresh perthite; gradational to trachyte; intrusive equivalents to felsic volcanics of the Earn assemblage
UPPER DEVONIAN TO LOWER MISSISSIPPIAN
DMEC3: EARN - CASSIAR:
heterogeneous, rusty, black, white, and orange weathering rhyolite-trachyte to andesite flows, breccias and tuffs; locally highly pyritic; local black slate and grey-green cherty tuff; minor fine crystalline limestone; locally abundant trachyte dykes
DMEC1: EARN - CASSIAR:
dark grey, recessive weathering, thin bedded, black siliceous slate with interbeds and members of quartz-chert greywacke, chert granule grit and chert pebble to cobble conglomerate; may include lenses of intermediate to felsic volcanoclastic rocks
MIDDLE SILURIAN TO MIDDLE DEVONIAN
SDA2: ASKIN:
medium grey to buff weathering, medium to thick bedded dolostone, silty and sandy dolostone, limestone; medium to thick bedded, medium grained mature orthoquartzite; dolomitized laminated mudstone and dolostone with vugs, birdseye and fenestral cavities (Askin Gp.)
UPPER CAMBRIAN AND ORDOVICIAN
COK1: KECHIKA:
thin bedded, lustrous, calcareous, grey slate, phyllite, limestone, minor grey dolostone and dolomitic limestone; quartz-carbonate veins; minor sills and flows of basalt and basaltic tuff ; may include Ordovician black slate at top of succession (Kechika)
LOWER CAMBRIAN
ICR: ROSELLA:
resistant, thick bedded to massive, limestone and argillaceous limestone; local archaeocyathid buildups, trilobite fragments, oolites, and pisolites; pisolitic massive dolostone and limestone; marble, calc-silicate, calcareous phyllite and minor schist (Rosella)
UPPER PROTEROZOIC TO LOWER CAMBRIAN
PC14: INGENIKA:
thin bedded slate, siltstone, quartzite and minor limestone with local medium to coarse grained, feldspathic sandstone to orthoquartzite; muscovite biotite garnet schist, micaceous quartzite, minor amphibolite and marble; rare granodiorite gneiss (Ketzka Gp., Harvey Gp.)



Legend
Grayling_2011_Soils
SPD_AllClaims
250K_Contour_Lines
Contour (20m)
Depression
Elevation
250K_Waterbody
Waterbody
Watercourse
Yukon_Bedrock_Faults
**DEXTRAL/SINISTRAL/
NORMAL/REVERSE/
UNDEFINED**
defined
approximate
assumed
**THRUST OVERTURNED/
UPRIGHT**
defined
approximate
assumed
extrapolated

GRAYLING Property
Regional Bedrock Geology
0 500 1,000 1,500
Meters
Scale: 1:25,000 Map ID: --
Draw Date: 2012/06/05 Rev. Date: --
Version: 1 Figure: 5 - 2
Author: K. Fecova Office: Vancouver
Location: 64 km S of Ross River, Yukon Territory
Projection: NAD 1983 UTM Zone 8N
Filename: GRA20120605_Topo_Geo_Grid_Map

5.2 Property Geology (Holbek and Wilson 1999)

At the Mat (Grayling) claims the outcrop is minimal, and attempts were not made to correlate units. Insufficient structural measurements were available on the Mat (Grayling) claims to determine if the "Mat (Grayling) Area" is of the same structural domain as the "Mamu Area."

The exposed volcanic rocks on the Mamu Property have generally been altered and deformed to such an extent that protolith textures are destroyed, and primary compositions obliterated. Proximity of such a large volume of intrusive rock may account for the degree of alteration and deformation. Stratigraphic topping directions are not known, and the volcanic rocks exposed on the Mat (Grayling) claims are somewhat different from those seen at the Bravo-Mamu-Kulan claims. Rock types seen on the Mat (Grayling) claims are described in the following section.

1998 geological mapping was carried out on the Mat (Grayling) and Mamu properties as single project. For clarity, only geological descriptions pertaining to the Mat (Grayling) claims have been included herein.

INTRUSIVE ROCKS

RHYOLITE DYKES: white, very fine grained, massive, hard and siliceous, cross-cuts diorite (Mat (Grayling) claims only).

LAMPROPHYRE DYKES: black to dark brown, massive hard very fine grained, locally altered to massive biotite-chlorite and strongly foliated (not foliated, and moderately magnetic at the Mat (Grayling) Claims).

DIORITE: massive dark to medium gray-green, coarse grained, interlocking white subhedral feldspar and mafic minerals (altered to chlorite), massive to locally foliated, locally cross-cut by planar and folded 2-20 centimeter quartz veins, local gossan development with traces of very fine grained disseminated pyrite, blocky to flaggy fracture, appears to cross-cut syenite.

SYENITE: medium pink-gray, massive to locally foliated, zoned and medium grained to very coarse grained (0.5-10.5 mm crystals), locally cross-cut by planar and folded 2-20 centimeter quartz veins, local 'classic' labradorite with interstitial magnetite, blocky fracture, variable alteration, locally appears as gneiss with compositional layering, forms a NW-SE trending large 12x5 km pluton that bounds the Mamu property to the north and northeast.

META-VOLCANIC ROCKS

TRACHYTE: pale gray, amygdaloidal and vesicular (up to 8 cm amygdules), locally pillowed with chert/siliceous tuff as pillow interstices (trace jasper in pillow interstices), local flow breccia, variable proportions of interflow tuffs and lapilli tuffs, local gossan development, moderately to strongly foliated, variable weak to strong alteration (quartz-sericite), local very strong silicification, contacts appear conformable, has the most readily identifiable protolith, (massive and fine grained having rare poorly preserved pillows at the Mat (Grayling) claims).



RHYOLITE FLOWS: white, massive, vague ghosts after phenocrysts, local concentrations of 1-2 mm amygdules filled with pyrite, not foliated, massive, (only seen on the Mat (Grayling) claims, and not the Mamu-Bravo-Kulan claims).

FELSIC FINE TUFF (SERICITE-QUARTZ SCHIST): pale green-gray, strongly foliated, rare local preservation of bedding, strongly altered to sericite, locally altered to white clay, flaggy fracture, (locally well bedded, and interbedded with minor chert at the Mat (Grayling) claims).

FELSIC QUARTZ CRYSTAL TUFF (QUARTZ-SERICITE SCHIST): medium to pale gray, 15-40% 1-4 mm quartz crystals, remainder is sericite, strong penetrative foliation, flaggy fracture, (only seen on the Mat (Grayling) claims, and not the Mamu-Bravo-Kulan claims).

MAFIC-INTERMEDIATE FINE TUFF: chlorite altered, very fine grained, fissile, bedding not seen, flaggy fracture.

META-SEDIMENTARY ROCKS

ARGILLITE: black, fine grained, thin bedded (only seen at the Mat (Grayling) claim).

5.3 Property Structure (Holbek and Wilson 1999)

A detailed discussion of structure on the Mat (Grayling) claims is excluded due to insufficient data.

Rocks at the Mamu property are highly deformed. Protolith textures and compositions are poorly preserved. Primary bedding has only been observed at five locations. The majority of rocks are strongly foliated and have flaggy fracture.

On a regional scale, the Mamu Property area is bounded by two northwest trending, southwest dipping thrust faults. One could postulate that there may be parallel and related minor thrust faults at the Mat (Grayling) property, however, no faults were recognized in the limited outcrop.

In comparison to the strata at the Fire, Ice, Tree, and Wolf-Fox properties, the rocks underlying the Mat (Grayling) property are strongly deformed. This should have little to do with the presence or absence of VMS style mineralization. However, should VMS mineralization be present, one would expect massive sulphide bodies to be found within the hinge area of folds.

5.4 Property Alteration (Holbek and Wilson 1999)

All units within the Mamu Property have been metamorphosed to the lower greenschist facies mineral assemblage during regional scale metamorphism. This alteration assemblage in turn may have been changed during contact metamorphism associated with intrusion of the diorite/syenite.

Hydrothermal alteration due to the deposition of VMS mineralization, if it is in fact present, may be completely masked by the forementioned two processes. The final resulting alteration minerals include, in order of abundance: sericite, quartz, k-feldspar, chlorite, and ankerite. It has

been assumed, in the absence of whole rock chemical analyses, that the chloritic rocks are of mafic protolith, and the sericitic (+/- quartz) rocks are of felsic protolith.

Adjacent to the diorite and syenite intrusions, there is a preponderance of quartz veins, both in the intrusive rocks and adjacent country rock. The volcanoclastic rocks immediately next to the diorite and syenite tend to be preferentially silicified and bleached.

Gossan development appears to crosscut stratigraphy. On the Mat (Grayling) claims, there is a 320 x 120 metre gossan that is bound by syenite-diorite on one side, and very fine felsic tuff with minor interbedded chert on the other. The gossanous material includes felsic tuff, felsic-intermediate tuff, minor argillite, and pillowed (?) trachyte. Although prospecting of the gossanous area did not reveal any significant mineralization, two contour soil (talus-fines) lines were completed to determine if there was any covered mineralization.

Relative to the volcanic stratigraphy in areas hosting volcanogenic mineralization within the PMVB, the Mat (Grayling) property has significantly less sericite-ankerite alteration and there is a lack of baritic float.

5.5 Property Mineralization (Holbek and Wilson 1999)

During the 1998 mapping of the Mat (Grayling) claims, no base metal sulphides were discovered beyond any mineralization that was previously known. Trace amounts of galena and sphalerite in veins cutting diorite here found at two locations on the Mat (Grayling) claims, one of which was in a blasted trench. The large gossan at the north end of the Mat (Grayling) claims was prospected and sampled. It is a strongly oxidized with resultant supergene (clay) alteration occurring locally. Disseminated pyrite in concentrations ranging from trace to prospected and sampled (to about 10%) accounts for this large area of iron staining. The gossan boundaries are sharp, one being intrusive diorite, and the other being very fine tuff. The pyrite appears to be developed only in the massive trachyte, a feature which is common for the Pelly Mountain Volcanic Belt.

6.0 2001 EXPLORATION

6.1 Exploration Program

The 2011 exploration program was carried out from September 16th to 18th and consisted of a few grid soil lines. Silver Predator contracted Aurora Geosciences of Whitehorse, YT to complete the program. A total of 3 man days were spent to collect 186 samples. Soil crews completed the sampling by foot traverses.

Soil samples were collected on 50 m intervals on three continuous lines for a total of approximately 9.1 line kilometres (Appendix 5-0). The soil lines are curvy and oriented approximately north south, generally from the top of the mountain down the stream line or along the top ridges.



6.2 Sampling Methodology and Protocols

Most 2011 samples were collected at a depth > 0.3 m using hand-held Dutch augers except where soils were very shallow or sparse, such as in boulder fields. At each sample station, sample descriptions, UTM co-ordinates and photographs were recorded. Location and observational data were recorded when no sample was collected due to ground conditions (i.e., permafrost or boulder field with insufficient fines).

Soil sample descriptions were entered into a hand held device with the following information: geographic location, relief, vegetation, depth of sample, soil horizon, sample color, sample quality, soil texture and moisture.

Samples were freighted to Acme's ISO 9001 certified preparation facility in Whitehorse, YT and the pulps were analyzed at Acme's ISO 9001 certified laboratory in Vancouver. Samples were dissolved in an aqua regia acid solution and then analyzed by ICP-MS methods (package 1DX2-15g). Acme completes quality assurance/ quality control data verification of their assays through internally inserted duplicates, standards and blanks. Assay certificates are compiled in Appendix 3 and the detailed methodology and detection limits are in Appendix 4.

Soil samples were ranked by percentile to determine statistical anomalies for the property. Dark blue circles plot samples ranking in the lower 50th percentile, light blue circles are samples ranking in the 50th – 75th percentile, green circles represent samples in the 75th - 90th percentile, yellow circles indicate 90 – 95th percentile, orange 95-98th (labelled) and red circles are the upper 98th -99th percentile (labelled).

6.3 Results

Results from the 2011 soil sampling program highlight two multi-element anomalies: 1. A distinctive, ~ 300 m by 300 m Ag-Pb-Zn-Mo-Sb anomaly in the northern part of the property on the GRAYLING 8 and 174 claim, at the contact between Earn-Cassiar rhyolite/ trachyte units and syenite of Pelly Mountain Suite; and on the GRAYLING 9, 10 and northwest of these claims within the Earn-Cassiar rhyolite/ trachyte units; 2. A localized, ~100 m by 1000 m copper anomaly crossing the GRY 9, 11, 12, 14 claims as well as the structural (thrust fault) contact juxtaposing older Kechika slate/phyllite/ limestone to Earn-Cassiar rhyolite/ trachyte units.

Anomaly 1 has the highest silver assays for the grid at 1.4 ppm Ag coinciding with the highest lead sample at 390.7 ppm Pb. Zinc assay values range between 703 and 755 ppm. The highest zinc assay value coming from a different location on the grid (GRAYLING 1 claim) is 8147 ppm. Elevated arsenic assay values -the highest on the grid- seem to coincide with anomaly 1 and they range from 82 to 181.2 ppm. Elevated molybdenum anomaly coincides with anomaly 1, especially with the location at the contact between Earn and Pelly Mountain rocks. These values range from 36.3 to 37.7 ppm. Elevated antimony assay values -the highest on the grid- seem to coincide with anomaly and they range from 3.6 to 16.7 ppm.



Elevated gold values also coincide with anomaly 1 and their range is 5.7-10 ppb. The highest gold assay values come from isolated samples located on GRAYLING 4 claim (135.8 ppb), southeast of GRAYLING 11 (9.4 ppb) and in the center of GRAYLING 7 (9.1 ppb), both within Earn-Cassiar rhyolite/ trachyte.

Elevated bismuth assays values also coincide with anomaly 1, especially with the location at the contact between Earn and Pelly Mountain rocks. These values range from 2 to 3.2 ppm. Elevated bismuth assay values are located also on the claim GRAYLING 20 (1.9 ppm), within syenite of Pelly Mountain Suite.

Anomaly 2 is a copper anomaly that follows the soil line located in the southernmost part of the property. Copper values range from 28.2-62.2 ppm.

Tungsten seems to pick up on GRAYLING 1 claim with assay values 0.6 and 0.8 ppm, within Earn-Cassiar rhyolite/ trachyte.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The GRAYLING property consists of 38 contiguous mineral claims covering an area of approximately 740 hectares, located along the McConnell River in the south-central Yukon. Silver Predator Canada Corp. is targeting zinc, lead and silver potential.

The 2011 field program consisted of the collection of 186 gridded soil samples across the entire property. The program identified one distinctive, multi-element Ag-Pb-Zn-Mo-Sb anomaly and single-element copper anomaly. Copper anomaly generally does not overlap with Ag-Pb-Zn-Mo-Sb anomaly.

Follow-up work consisting of prospecting and mapping is recommended to investigate the sources of the geochemical anomalies.

8.0 2011 EXPENDITURES

Expenditures for the 2011 exploration program were \$19,278.00 as summarized in Table 8-1.

Table 8-1. 2011 Expenditures

Contractor fees	Aurora Geosciences Ltd.	\$6,265.00
Logistics	Food & Lodging	\$810.00
Analyses	Acme Labs soil samples	\$3,403.00
Transportation	AGL truck rental	\$600.00
Transportation	Horizon Helicopters	\$8,200.00
Total Expenditures		\$19,278.00



9.0 STATEMENT OF AUTHORSHIP

This Report titled "Assessment Report, 2011 Geochemical Sampling Program, GRAYLING Project, Watson Lake Mining Division, Yukon Territory, Canada", and dated June 24th, 2012 was prepared and signed by the following author:

Karin Fecova'

Karin Fecova, M.Sc.

Dated: June 24th, 2012

Vancouver, British Columbia



10.0 REFERENCES

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Appendix 1

Statement of Qualifications

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E-mail: kfecova@goldenpredator.com

CERTIFICATE OF AUTHOR

I, Karin Fecova of 11th Floor, 888 Dunsmuir, Vancouver, British Columbia, certify that:

I, Karin Fecova, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Whistler, British Columbia, hereby certify that:

I graduated from the Simon Fraser University, Burnaby, British Columbia in 2009 with a M.Sc. in Earth Sciences.

In 2006 and from 2010 to present, I have been actively engaged as a geologist in mineral exploration in the Yukon Territory.

I am author of this Report "Assessment Report, 2011 Geochemical Sampling Program GRAYLING Property, Watson Lake Mining Division, British Columbia, Canada"; dated June 24th, 2012; and

I have reviewed the geological data and am not aware of any material facts or change in facts at the time this certification is dated.



Karin Fecova, M.Sc.

Vancouver, British Columbia
Dated this 24th Day of June, 2012

Appendix 2

Analytical Summary

Appendix 2 - 2011 GRAYLING soil sample description - page 1

SampleID	Datum	Easting	Northing	Elevation (m)	Sample Date	Sand %	Silt %	Clay %	Orgc %	Clsts %	Depth (cm)	Horizon	DpthInHz (cm)	Parent Material	Moisture	Vegetation Cover	Terrain	Colour	Comments
616001	UTM83-8	628291	6823897	1718	9/16/2011	35	35	0	0	30	0-10	C	2-5	Talus/colluvium	Partially Frozen	Alpine	Ridge Top	Orange	
616002	UTM83-8	628241	6823930	1717	9/16/2011	40	40	0	0	20	40-50	C	>30	Talus/colluvium	Partially Frozen	Alpine	Ridge Top	Orange	
616003	UTM83-8	628193	6823943	1708	9/16/2011	40	40	0	0	20	20-30	C	10-15	Talus/colluvium	Partially Frozen	Alpine	Ridge Top	Light Grey	
616004	UTM83-8	628157	6823942	1712	9/16/2011	50	30	0	0	20	20-30	C	10-15	Weathered bedrock	Partially Frozen	Alpine	Ridge Top	Orange	
616005	UTM83-8	628108	6823962	1716	9/16/2011	30	30	0	0	40	0-10	C	2-5	Talus/colluvium	Partially Frozen	Alpine	Ridge Top	Orange	
616006	UTM83-8	628062	6823985	1708	9/16/2011	35	35	0	10	20	0-10	C	2-5	Talus/colluvium	Partially Frozen	Alpine	Ridge Top	Orange	
616007	UTM83-8	628009	6824000	1687	9/16/2011	50	30	0	0	20	20-30	C	10-15	Weathered bedrock	Partially Frozen	Alpine	Ridge Top	Yellow	
616008	UTM83-8	627964	6824032	1673	9/16/2011	30	30	0	15	15	0-10	B/C	2-5	Talus/colluvium	Dry	Alpine	Mid Slope	Dark Brown	
616009	UTM83-8	627924	6824045	1648	9/16/2011	30	30	0	0	30	0-10	C	2-5	Talus/colluvium	Partially Frozen	None	Mid Slope	Light Brown	orange tint
616010	UTM83-8	627876	6824069	1610	9/16/2011	50	30	0	0	20	10-20	C	5-10	Talus/colluvium	Partially Frozen	None	Mid Slope	Light Brown	
616011	UTM83-8	627852	6824113	1589	9/16/2011	25	25	0	25	25	0-10	B	2-5	Talus/colluvium	Partially Frozen	Alpine	Mid Slope	Light Grey	poor sample-rocky ground
616012	UTM83-8	627829	6824154	1576	9/16/2011	45	45	0	0	10	50-60	C	>30	Weathered bedrock	Partially Frozen	Alpine	Mid Slope	Orange	
616013	UTM83-8	627779	6824181	1554	9/16/2011	30	30	0	0	30	30-40	C	15-20	Weathered bedrock	Partially Frozen	Alpine	Mid Slope	Orange	
616014	UTM83-8	627743	6824203	1539	9/16/2011	45	30	0	0	25	30-40	C	>30	Weathered bedrock	Partially Frozen	Alpine	Mid Slope	Yellow	
616015	UTM83-8	627712	6824248	1517	9/16/2011	35	35	0	0	30	0-10	C	2-5	Talus/colluvium	Partially Frozen	Alpine	Mid Slope	Orange	
616016	UTM83-8	627679	6824288	1500	9/16/2011	50	30	0	0	20	30-40	C	>30	Weathered bedrock	Partially Frozen	Alpine	Mid Slope	Orange	
616017	UTM83-8	627632	6824322	1488	9/16/2011	60	40	0	0	0	50-60	C	25-30	Weathered bedrock	Partially Frozen	Alpine	Mid Slope	Orange	
616018	UTM83-8	627597	6824359	1476	9/16/2011	30	30	0	30	0	0-10	B/C	5-10	Weathered bedrock	Dry	Alpine	Mid Slope	Light Brown	no sample w C horizon-rocky ground
616019	UTM83-8	627572	6824403	1454	9/16/2011	50	40	0	0	10	40-50	C	25-30	Weathered bedrock	Partially Frozen	Alpine	Mid Slope	Orange	
616020	UTM83-8	627549	6824433	1445	9/16/2011	60	30	0	0	10	50-60	C	>30	Weathered bedrock	Dry	Alpine	Mid Slope	Light Grey	
616021	UTM83-8	627515	6824463	1422	9/16/2011	80	20	0	0	0	60-70	C	>30	Weathered bedrock	Partially Frozen	Alpine	Mid Slope	Orange	
616022	UTM83-8	627480	6824522	1404	9/16/2011	70	30	0	0	0	40-50	C	>30	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope	Orange	
616023	UTM83-8	627436	6824549	1393	9/16/2011	40	30	30	0	0	50-60	C	>30	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope	Orange	
616024	UTM83-8	627408	6824586	1394	9/16/2011	30	70	0	0	0	60-70	B/C	>30	Till	Partially Frozen	Mixed forest	Mid Slope	Yellow	sample horizon-till?
616025	UTM83-8	627387	6824625	1379	9/16/2011	35	20	0	0	45	40-50	C	20-25	Weathered bedrock	Dry	Mixed forest	Mid Slope	Black	black sandy dirt
616026	UTM83-8	627380	6824668	1356	9/16/2011	30	30	0	0	40	40-50	C	20-25	Weathered bedrock	Dry	Evergreen	Mid Slope	Black	same kind of soil as 616025
616027	UTM83-8	627387	6824711	1345	9/16/2011	30	30	20	20	0	50-60	B/C	20-25	Weathered bedrock	Moist	Evergreen	Mid Slope	Light Brown	
616028	UTM83-8	628363	6823800	1709	9/17/2011	80	20	0	0	0	50-60	C	>30	Weathered bedrock	Partially Frozen	Alpine	Ridge Top	Yellow	
616029	UTM83-8	628364	6823748	1696	9/17/2011	30	70	0	0	0	50-60	C	>30	Weathered bedrock	Partially Frozen	Alpine	Mid Slope	Yellow	
616030	UTM83-8	628359	6823704	1686	9/17/2011	25	25	0	25	25	0-10	B	2-5	Weathered bedrock	Partially Frozen	Alpine	Mid Slope	Light Brown	poor sample-rocky ground
616031	UTM83-8	628380	6823656	1675	9/17/2011	30	30	0	15	15	0-10	B/C	5-10	Weathered bedrock	Partially Frozen	Alpine	Mid Slope	Dark Brown	
616032	UTM83-8	628375	6823608	1662	9/17/2011	70	30	0	0	0	60-70	C	>30	Weathered bedrock	Partially Frozen	Alpine	Mid Slope	Yellow	
616033	UTM83-8	628374	6823547	1649	9/17/2011	25	25	0	25	25	10-20	B/C	5-10	Weathered bedrock	Partially Frozen	Alpine	Mid Slope	Light Brown	
616034	UTM83-8	628396	6823495	1646	9/17/2011	35	30	0	35	0	20-30	B/C	15-20	Weathered bedrock	Partially Frozen	Alpine	Ridge Top	Dark Brown	
616035	UTM83-8	628374	6823456	1638	9/17/2011	30	30	0	15	15	0-10	C	2-5	Talus/colluvium	Partially Frozen	Alpine	Mid Slope	Yellow	
616036	UTM83-8	628348	6823421	1624	9/17/2011	40	30	0	15	15	0-10	C	2-5	Talus/colluvium	Partially Frozen	Alpine	Ridge Top	Yellow	
616037	UTM83-8	628351	6823345	1590	9/17/2011	25	25	0	25	25	10-20	B/C	5-10	Weathered bedrock	Dry	Alpine	Ridge Top	Light Brown	poor sample-rocky ground
616038	UTM83-8	628352	6823307	1572	9/17/2011	50	0	0	0	50	30-40	C	15-20	Weathered bedrock	Dry	Alpine	Mid Slope	Orange	
616039	UTM83-8	628360	6823252	1551	9/17/2011	80	0	0	0	20	60-70	C	>30	Weathered bedrock	Dry	Alpine	Mid Slope	Light Grey	
616040	UTM83-8	628342	6823215	1540	9/17/2011	50	30	0	0	20	30-40	C	10-15	Weathered bedrock	Partially Frozen	Alpine	Mid Slope	Orange	
616041	UTM83-8	628336	6823161	1525	9/17/2011	50	25	0	25	0	0-10	C	2-5	Weathered bedrock	Dry	Alpine	Mid Slope	Orange	
616042	UTM83-8	628345	6823112	1501	9/17/2011	45	25	0	25	0	0-10	C	2-5	Weathered bedrock	Moist	Alpine	Mid Slope	Orange	
616043	UTM83-8	628336	6823054	1483	9/17/2011	50	40	0	0	10	40-50	C	25-30	Weathered bedrock	Moist	Mixed forest	Mid Slope	Orange	
616044	UTM83-8	628338	6823015	1477	9/17/2011	50	50	0	0	0	50-60	C	>30	Weathered bedrock	Moist	Mixed forest	Mid Slope	Orange	
616045	UTM83-8	628344	6822953	1451	9/17/2011	50	25	0	25	0	>70	C	>30	Weathered bedrock	Dry	Mixed forest	Mid Slope	Orange	
616046	UTM83-8	628329	6822901	1447	9/17/2011	40	20	0	20	20	20-30	B/C	10-15	Weathered bedrock	Moist	Mixed forest	Mid Slope	Dark Brown	
616047	UTM83-8	628347	6822844	1423	9/17/2011	20	30	0	30	20	10-20	B	5-10	Weathered bedrock	Dry	Mixed forest	Mid Slope	Light Brown	poor sample-rocky ground
616048	UTM83-8	628324	6822811	1408	9/17/2011	25	25	0	0	50	30-40	C	10-15	Weathered bedrock	Dry	Mixed forest	Mid Slope	Orange	
616049	UTM83-8	628316	6822704	1369	9/17/2011	30	30	0	0	30	40-50	C	25-30	Weathered bedrock	Dry	Evergreen	Mid Slope	Orange	
616050	UTM83-8	628328	6822654	1335	9/17/2011	20	70	10	0	0	60-70	C	>30	Till	Moist	Evergreen	Mid Slope	Light Grey	till?
616051	UTM83-8	628334	6822601	1315	9/17/2011	50	50	0	0	0	30-40	C	10-15	Till	Moist	Evergreen	Mid Slope	Light Brown	unsure of parent material and horizon
616052	UTM83-8	628316	6822559	1302	9/18/2011	60	40	0	0	0	60-70	C	>30	Weathered bedrock	Moist	Evergreen	Mid Slope	Light Brown	maybe till

Appendix 2 - 2011 GRAYLING soil sample description - page 2

SampleID	Datum	Easting	Northing	Elevation (m)	Sample Date	Sand %	Silt %	Clay %	Orgc %	Clsts %	Depth (cm)	Horizon	DpthInHz (cm)	Parent Material	Moisture	Vegetation Cover	Terrain	Colour	Comments
616053	UTM83-8	628320	6822561	1301	9/18/2011	60	40	0	0	0	60-70	C	>30	Weathered bedrock	Moist	Evergreen	Mid Slope	Light Brown	maybe till
616054	UTM83-8	628325	6822515	1275	9/18/2011	40	40	20	0	0	50-60	C	>30	Till	Moist	Mixed forest	Mid Slope	Light Brown	
616055	UTM83-8	628312	6822471	1265	9/18/2011	70	30	0	0	0	40-50	C	>30	Till	Moist	Mixed forest	Mid Slope	Light Brown	
616056	UTM83-8	628320	6822408	1242	9/18/2011	70	15	0	0	15	50-60	C	20-25	Weathered bedrock	Moist	Mixed forest	Mid Slope	Orange	
616057	UTM83-8	628313	6822353	1220	9/18/2011	50	50	0	0	0	50-60	C	>30	Till	Moist	Mixed forest	Mid Slope	Dark Grey	
616058	UTM83-8	628312	6822303	1210	9/18/2011	70	15	0	15	0	50-60	C	15-20	Weathered bedrock	Moist	Mixed forest	Mid Slope	Orange	
616059	UTM83-8	628310	6822251	1203	9/18/2011	50	50	0	0	0	40-50	C	15-20	Till	Moist	Mixed forest	Mid Slope	Light Brown	
616060	UTM83-8	628302	6822203	1194	9/18/2011	70	30	0	0	0	40-50	C	10-15	Till	Moist	Mixed forest	Mid Slope	Dark Grey	
616061	UTM83-8	628300	6822149	1175	9/18/2011	25	50	25	0	0	50-60	C	20-25	Till	Moist	Mixed forest	Mid Slope	Light Grey	
616062	UTM83-8	628307	6822110	1183	9/18/2011	70	30	0	0	0	50-60	C	15-20	Weathered bedrock	Moist	Mixed forest	Mid Slope	Orange	orange tint
618001	UTM83-8	628759	6824823	1845	9/16/2011	25	60	0	5	10	0-10	C	2-5	Weathered bedrock	Partially Frozen	Alpine	Ridge Top	Light Brown	
618002	UTM83-8	628753	6824779	1843	9/16/2011	10	80	0	5	5	0-10	C	5-10	Weathered bedrock	Partially Frozen	Alpine	Ridge Top	Light Brown	
618003	UTM83-8	628748	6824731	1843	9/16/2011	10	80	0	5	5	0-10	C	5-10	Weathered bedrock	Partially Frozen	Alpine	Ridge Top	Light Brown	
618004	UTM83-8	628721	6824680	1836	9/16/2011	10	75	0	5	10	10-20	C	5-10	Weathered bedrock	Partially Frozen	Alpine	Ridge Top	Light Brown	
618005	UTM83-8	628712	6824634	1827	9/16/2011	15	60	0	10	15	10-20	C	5-10	Weathered bedrock	Partially Frozen	Alpine	Ridge Top	Light Brown	
618006	UTM83-8	628689	6824586	1812	9/16/2011	15	60	0	10	15	30-40	C	10-15	Weathered bedrock	Wet	Alpine	Ridge Top	Light Brown	
618007	UTM83-8	628661	6824542	1800	9/16/2011	15	60	0	5	20	40-50	C	10-15	Weathered bedrock	Moist	Alpine	Ridge Top	Light Brown	
618008	UTM83-8	628659	6824492	1782	9/16/2011	20	45	0	10	25	40-50	C	10-15	Weathered bedrock	Wet	Alpine	Mid Slope	Light Brown	
618009	UTM83-8	628653	6824462	1778	9/16/2011	15	60	0	5	20	30-40	C	5-10	Weathered bedrock	Moist	Alpine	Mid Slope	Light Brown	
618010	UTM83-8	628626	6824406	1754	9/16/2011	15	65	0	5	15	10-20	C	5-10	Talus/colluvium	Moist	Alpine	Mid Slope	Light Brown	
618011	UTM83-8	628605	6824369	1735	9/16/2011	25	55	0	5	15	10-20	C	5-10	Talus/colluvium	Moist	Alpine	Mid Slope	Light Brown	
618012	UTM83-8	628597	6824312	1722	9/16/2011	40	40	0	20	0				Talus/colluvium	Dry	Alpine	Mid Slope	Light Brown	talus sample-no definat horizons
618013	UTM83-8	628580	6824264	1709	9/16/2011	10	55	0	15	20	30-40	B/C	5-10	Talus/colluvium	Moist	Alpine	Mid Slope	Light Brown	
618014	UTM83-8	628562	6824215	1682	9/16/2011	20	40	0	20	20	30-40	B/C	5-10	Weathered bedrock	Moist	Alpine	Mid Slope	Dark Brown	sample-talus, bedrock, very little soil
618015	UTM83-8	628541	6824176	1658	9/16/2011	20	65	0	0	15	0-10	C	1-2	Weathered bedrock	Dry	Alpine	Mid Slope	Light Brown	duplicate of 618016
618016	UTM83-8	628542	6824182	1650	9/16/2011	20	60	0	0	20	0-10	C	1-2	Weathered bedrock	Dry	Alpine	Mid Slope	Light Brown	duplicate of 618015
618017	UTM83-8	628522	6824120	1611	9/16/2011	30	50	0	0	20	10-20	C	5-10	Talus/colluvium	Moist	Alpine	Mid Slope	Orange	
618018	UTM83-8	628507	6824076	1608	9/16/2011	25	50	0	5	20	0-10	C	2-5	Talus/colluvium	Moist	Alpine	Mid Slope	Orange	
618019	UTM83-8	628445	6824103	1611	9/16/2011	20	35	30	0	15	0-10	C	1-2	Talus/colluvium	Moist	Alpine	Mid Slope	Dark Grey	
618020	UTM83-8	628401	6824153	1584	9/16/2011	20	30	10	5	35	0-10	C	2-5	Talus/colluvium	Moist	Alpine	Mid Slope	Dark Grey	
618021	UTM83-8	628381	6824182	1573	9/16/2011	35	35	0	0	30	0-10	C	2-5	Talus/colluvium	Moist	Alpine	Mid Slope	Light Brown	
618022	UTM83-8	628364	6824261	1578	9/16/2011	30	40	0	15	15	0-10	B/C	2-5	Weathered bedrock	Dry	Alpine	Mid Slope	Light Brown	
618023	UTM83-8	628347	6824282	1588	9/16/2011	40	30	0	10	20	10-20	B/C	5-10	Weathered bedrock	Moist	Alpine	Mid Slope	Light Brown	
618024	UTM83-8	629600	6823341	1604	9/17/2011	15	50	0	15	20	40-50	B/C	5-10	Weathered bedrock	Moist	Alpine	Mid Slope	Dark Brown	
618025	UTM83-8	629594	6823312	1587	9/17/2011	15	60	0	5	20	40-50	C	5-10	Weathered bedrock	Moist	Alpine	Mid Slope	Light Brown	
618026	UTM83-8	629571	6823248	1552	9/17/2011	30	55	0	0	15	>70	C	10-15	Weathered bedrock	Moist	Alpine	Mid Slope	Light Brown	
618027	UTM83-8	629569	6823202	1527	9/17/2011	30	45	0	5	20	50-60	C	10-15	Weathered bedrock	Moist	Evergreen	Mid Slope	Light Brown	
618028	UTM83-8	629545	6823162	1529	9/17/2011	30	45	0	5	20	0-10	C	2-5	Weathered bedrock	Partially Frozen	Alpine	Mid Slope	Light Brown	
618029	UTM83-8	629538	6823141	1543	9/17/2011	30	45	0	0	25	0-10	C	2-5	Weathered bedrock	Partially Frozen	Alpine	Mid Slope	Light Brown	
618030	UTM83-8	629506	6823072	1549	9/17/2011	35	45	0	0	20	0-10	C	1-2	Weathered bedrock	Dry	Alpine	Ridge Top	Dark Grey	
618031	UTM83-8	629505	6823028	1553	9/17/2011	25	40	20	0	15	0-10	C	2-5	Weathered bedrock	Partially Frozen	Alpine	Ridge Top	Light Grey	
618032	UTM83-8	629497	6822974	1569	9/17/2011	30	45	0	5	20	0-10	C	2-5	Weathered bedrock	Partially Frozen	Alpine	Mid Slope	Light Brown	
618033	UTM83-8	629482	6822928	1589	9/17/2011	15	50	0	5	30	10-20	C	5-10	Weathered bedrock	Dry	Alpine	Ridge Top	Light Brown	
618034	UTM83-8	629455	6822858	1573	9/17/2011	5	35	45	0	15	0-10	C	2-5	Weathered bedrock	Wet	Alpine	Ridge Top	Light Brown	
618035	UTM83-8	629456	6822823	1579	9/17/2011	30	55	0	0	15	50-60	C	10-15	Weathered bedrock	Moist	Alpine	Ridge Top	Light Brown	
618036	UTM83-8	629439	6822778	1590	9/17/2011	15	60	0	5	20	40-50	C	10-15	Weathered bedrock	Moist	Alpine	Ridge Top	Light Brown	
618037	UTM83-8	629004	6822515	1361	9/17/2011	25	60	0	15	0	20-30	B/C	5-10	Weathered bedrock	Dry	Mixed forest	Mid Slope	Light Brown	poor sampling conditions
618038	UTM83-8	629030	6822525	1381	9/17/2011	0	45	30	5	20	20-30	C	5-10	Weathered bedrock	Moist	Mixed forest	Mid Slope	Light Brown	
618039	UTM83-8	629063	6822550	1408	9/17/2011	10	40	30	0	20	40-50	C	10-15	Weathered bedrock	Moist	Mixed forest	Mid Slope	Light Brown	
618040	UTM83-8	629106	6822561	1417	9/17/2011	15	60	5	5	15	30-40	C	10-15	Weathered bedrock	Moist	Mixed forest	Mid Slope	Light Brown	
618041	UTM83-8	629163	6822592	1455	9/17/2011	25	50	0	5	20	10-20	C	5-10	Weathered bedrock	Moist	Mixed forest	Mid Slope	Light Brown	
618042	UTM83-8	629206	6822596	1491	9/17/2011	15	60	0	5	20	40-50	C	10-15	Weathered bedrock	Moist	Mixed forest	Mid Slope	Light Brown	

SampleID	Datum	Easting	Northing	Elevation (m)	Sample Date	Sand %	Silt %	Clay %	Orgc %	Clsts %	Depth (cm)	Horizon	DpthInHz (cm)	Parent Material	Moisture	Vegetation Cover	Terrain	Colour	Comments
618043	UTM83-8	629237	6822652	1507	9/17/2011	10	60	0	0	30	40-50	C	10-15	Weathered bedrock	Moist	Mixed forest	Mid Slope	Light Brown	
618044	UTM83-8	629269	6822684	1522	9/17/2011	15	65	0	0	20	40-50	C	10-15	Weathered bedrock	Moist	Mixed forest	Mid Slope	Light Brown	
618045	UTM83-8	629331	6822693	1549	9/17/2011	10	55	5	10	20	50-60	C	10-15	Weathered bedrock	Moist	Mixed forest	Mid Slope	Light Brown	
618046	UTM83-8	629381	6822707	1561	9/17/2011	15	65	0	5	15	30-40	C	10-15	Weathered bedrock	Moist	Mixed forest	Mid Slope	Light Brown	
618047	UTM83-8	629417	6822745	1575	9/17/2011	20	50	5	5	20	50-60	C	10-15	Weathered bedrock	Moist	Mixed forest	Ridge Top	Light Brown	
618048	UTM83-8	629165	6821234	1148	9/18/2011	25	30	25	5	15	60-70	C	10-15	Till	Wet	Mixed forest	Valley Lowland	Light Brown	
618049	UTM83-8	629133	6821182	1138	9/18/2011	0	80	0	0	10	40-50	C	10-15	Till	Dry	Mixed forest	Valley Lowland	Light Brown	
618050	UTM83-8	629142	6821136	1136	9/18/2011	15	40	30	5	10	60-70	C	10-15	Till	Moist	Mixed forest	Valley Lowland	Light Brown	
618051	UTM83-8	629150	6821078	1121	9/18/2011	20	35	20	5	20	60-70	C	10-15	Till	Wet	Mixed forest	Valley Lowland	Light Brown	
618052	UTM83-8	629170	6821043	1122	9/18/2011	20	30	30	5	15	>70	C	10-15	Till	Moist	Mixed forest	Valley Lowland	Light Brown	
618053	UTM83-8	629260	6820727	1106	9/18/2011	35	30	10	5	20	50-60	C	10-15	Till	Moist	Mixed forest	Valley Lowland	Light Brown	
618054	UTM83-8	629265	6820684	1114	9/18/2011	20	45	10	5	20	60-70	C	10-15	Till	Moist	Mixed forest	Valley Lowland	Light Brown	
618055	UTM83-8	629264	6820636	1130	9/18/2011	45	40	0	5	10	60-70	C	10-15	Till	Partially Frozen	Mixed forest	Mid Slope	Light Grey	
618056	UTM83-8	629251	6820603	1141	9/18/2011	40	30	10	5	15	50-60	C	10-15	Till	Moist	Mixed forest	Mid Slope	Light Brown	
619901	UTM83-8	629183	6819684	1348	9/18/2011	25	50	0	10	15	0-10	C	2-5	Talus/colluvium	Moist	Mixed forest	Mid Slope	Light Brown	
619902	UTM83-8	629190	6819725	1334	9/18/2011	20	55	0	20	5	10-20	B/C	5-10	Talus/colluvium	Moist	Mixed forest	Mid Slope	Light Grey	
619903	UTM83-8	629198	6819785	1297	9/18/2011	25	55	5	10	5	20-30	B/C	10-15	Talus/colluvium	Moist	Mixed forest	Valley Lowland	Dark Brown	
619904	UTM83-8	629203	6819841	1281	9/18/2011	20	55	0	5	20	30-40	B/C	10-15	Talus/colluvium	Moist	Mixed forest	Mid Slope	Light Brown	
619905	UTM83-8	629214	6819888	1274	9/18/2011	30	40	0	0	30	20-30	C	5-10	Talus/colluvium	Moist	Mixed forest	Mid Slope	Light Brown	
619906	UTM83-8	629215	6819936	1252	9/18/2011	20	40	10	15	15	50-60	B/C	15-20	Talus/colluvium	Moist	Mixed forest	Mid Slope	Light Grey	
619907	UTM83-8	629212	6819991	1243	9/18/2011	20	45	5	5	25	40-50	B/C	15-20	Talus/colluvium	Moist	Mixed forest	Mid Slope	Light Grey	
619908	UTM83-8	629221	6820036	1238	9/18/2011	20	50	10	15	5	40-50	C	15-20	Talus/colluvium	Moist	Mixed forest	Mid Slope	Dark Brown	
619909	UTM83-8	629220	6820093	1226	9/18/2011	20	40	15	5	20	20-30	B/C	10-15	Talus/colluvium	Moist	Mixed forest	Mid Slope	Light Grey	
619910	UTM83-8	629213	6820139	1203	9/18/2011	20	45	30	5	0	>70	B	>30	Talus/colluvium	Moist	Mixed forest	Mid Slope	Dark Grey	poor sample-clay
619911	UTM83-8	629222	6820181	1204	9/18/2011	20	40	30	10	0	60-70	B	>30	Talus/colluvium	Moist	Mixed forest	Mid Slope	Dark Grey	
619912	UTM83-8	629216	6820238	1199	9/18/2011	25	45	0	10	20	>70	C	>30	Talus/colluvium	Moist	Mixed forest	Mid Slope	Light Grey	
619913	UTM83-8	629236	6820290	1180	9/18/2011	20	45	10	5	20	40-50	C	15-20	Talus/colluvium	Moist	Mixed forest	Mid Slope	Orange	
619914	UTM83-8	629240	6820337	1182	9/18/2011	25	50	5	10	10	40-50	C	10-15	Talus/colluvium	Moist	Mixed forest	Mid Slope	Orange	
619915	UTM83-8	629246	6820393	1173	9/18/2011	15	35	45	5	0	50-60	B	>30	Weathered bedrock	Moist	Mixed forest	Mid Slope	Dark Grey	poor sample-excessive clay
619916	UTM83-8	629244	6820441	1163	9/18/2011	20	50	15	10	5	40-50	B	20-25	Weathered bedrock	Moist	Mixed forest	Mid Slope	Dark Grey	
619917	UTM83-8	629256	6820488	1158	9/18/2011	0	0	0	0	0	50-60	B	15-20	Weathered bedrock	Moist	Mixed forest	Mid Slope	Dark Grey	
619918	UTM83-8	629256	6820544	1153	9/18/2011	20	50	15	10	5	60-70	B/C	>30	Weathered bedrock	Moist	Mixed forest	Mid Slope	Light Grey	
619951	UTM83-8	628305	6824320	1584	9/16/2011	30	40	0	10	20	10-20	C	5-10	Talus/colluvium	Dry	Alpine	Mid Slope	Light Brown	
619952	UTM83-8	628270	6824353	1575	9/16/2011	30	45	0	5	20	0-10	C	2-5	Talus/colluvium	Dry	Alpine	Mid Slope	Light Brown	
619953	UTM83-8	628227	6824364	1541	9/16/2011	40	20	0	5	35	0-10	C	2-5	Talus/colluvium	Dry	Alpine	Mid Slope	Light Brown	
619954	UTM83-8	628150	6824361	1514	9/16/2011	30	55	5	10	0	10-20	C	5-10	Talus/colluvium	Dry	Alpine	Mid Slope	Light Brown	
619955	UTM83-8	628146	6824404	1512	9/16/2011	25	45	0	5	25	0-10	C	2-5	Talus/colluvium	Dry	Alpine	Mid Slope	Light Brown	
619956	UTM83-8	628068	6824405	1479	9/16/2011	30	50	0	10	10	10-20	C	5-10	Talus/colluvium	Dry	Alpine	Mid Slope	Light Brown	
619957	UTM83-8	628042	6824455	1453	9/16/2011	30	45	0	15	10	0-10	C	2-5	Talus/colluvium	Dry	Alpine	Mid Slope	Light Brown	
619958	UTM83-8	628004	6824485	1419	9/16/2011	30	35	15	10	10	10-20	C	5-10	Talus/colluvium	Moist	Alpine	Plateau	Light Brown	
619959	UTM83-8	627949	6824499	1418	9/16/2011	30	40	20	5	5	30-40	B/C	10-15	Talus/colluvium	Moist	Alpine	Plateau	Light Brown	
619960	UTM83-8	627891	6824521	1418	9/16/2011	25	40	30	5	0	60-70	C	15-20	Talus/colluvium	Dry	Alpine	Plateau	Light Brown	
619961	UTM83-8	627853	6824532	1416	9/16/2011	30	45	15	10	0	20-30	C	10-15	Talus/colluvium	Moist	Alpine	Mid Slope	Light Brown	
619962	UTM83-8	627813	6824557	1403	9/16/2011	25	40	0	20	15	10-20	C	5-10	Talus/colluvium	Moist	Alpine	Mid Slope	Light Brown	
619963	UTM83-8	627780	6824600	1377	9/16/2011	25	40	5	15	15	0-10	C	2-5	Talus/colluvium	Moist	Alpine	Mid Slope	Light Brown	
619964	UTM83-8	627722	6824615	1371	9/16/2011	25	55	5	5	10	0-10	C	2-5	Talus/colluvium	Dry	Alpine	Mid Slope	Light Brown	
619965	UTM83-8	627677	6824644	1374	9/16/2011	30	50	0	10	10	0-10	C	2-5	Talus/colluvium	Dry	Alpine	Mid Slope	Light Brown	
619966	UTM83-8	627644	6824673	1368	9/16/2011	30	50	0	5	15	0-10	C	2-5	Talus/colluvium	Dry	Alpine	Mid Slope	Light Brown	
619967	UTM83-8	627607	6824687	1348	9/16/2011	25	50	15	5	5	10-20	B/C	5-10	Talus/colluvium	Moist	Mixed forest	Mid Slope	Dark Brown	
619968	UTM83-8	627562	6824718	1331	9/16/2011	30	45	10	10	5	30-40	C	10-15	Talus/colluvium	Moist	Mixed forest	Mid Slope	Light Brown	
619969	UTM83-8	627525	6824757	1313	9/16/2011	20	60	0	15	5	10-20	C	5-10	Talus/colluvium	Dry	Mixed forest	Mid Slope	Light Brown	
619970	UTM83-8	627454	6824774	1308	9/16/2011	30	40	10	15	5	30-40	B/C	10-15	Talus/colluvium	Moist	Mixed forest	Mid Slope	Light Grey	

Appendix 2 - 2011 GRAYLING soil sample description - page 4

SampleID	Datum	Easting	Northing	Elevation (m)	Sample Date	Sand %	Silt %	Clay %	Orgc %	Clsts %	Depth (cm)	Horizon	DpthInHz (cm)	Parent Material	Moisture	Vegetation Cover	Terrain	Colour	Comments
619971	UTM83-8	627428	6824779	1313	9/16/2011	20	55	5	10	10	30-40	B/C	10-15	Talus/colluvium	Moist	Mixed forest	Mid Slope	Light Brown	
619972	UTM83-8	627400	6824812	1310	9/16/2011	25	50	0	15	10	30-40	B/C	10-15	Talus/colluvium	Moist	Mixed forest	Mid Slope	Dark Brown	
619973	UTM83-8	627396	6824776	1331	9/16/2011	25	50	10	5	10	20-30	B/C	5-10	Talus/colluvium	Moist	Mixed forest	Mid Slope	Dark Grey	
619974	UTM83-8	628948	6822470	1349	9/17/2011	30	40	10	15	5	40-50	B/C	10-15	Talus/colluvium	Moist	Mixed forest	Mid Slope	Light Brown	
619975	UTM83-8	628964	6822420	1371	9/17/2011	30	40	10	5	15	20-30	C	10-15	Talus/colluvium	Moist	Mixed forest	Mid Slope	Orange	
619976	UTM83-8	628968	6822372	1371	9/17/2011	30	55	0	5	10	0-10	C	2-5	Talus/colluvium	Dry	Mixed forest	Mid Slope	Orange	
619977	UTM83-8	628959	6822311	1368	9/17/2011	20	50	10	10	10	20-30	C	10-15	Talus/colluvium	Dry	Mixed forest	Mid Slope	Orange	
619978	UTM83-8	628977	6822269	1359	9/17/2011	30	55	0	10	5	10-20	C	5-10	Talus/colluvium	Dry	Mixed forest	Mid Slope	Orange	
619979	UTM83-8	628986	6822220	1351	9/17/2011	25	50	5	10	10	20-30	C	10-15	Talus/colluvium	Dry	Mixed forest	Mid Slope	Orange	
619980	UTM83-8	628991	6822165	1341	9/17/2011	30	40	5	5	20	20-30	C	10-15	Talus/colluvium	Dry	Mixed forest	Mid Slope	Orange	
619981	UTM83-8	628997	6822124	1340	9/17/2011	30	40	0	5	25	20-30	C	10-15	Talus/colluvium	Dry	Mixed forest	Mid Slope	Orange	
619982	UTM83-8	629018	6822074	1336	9/17/2011	20	60	5	10	5	30-40	C	10-15	Talus/colluvium	Dry	Mixed forest	Mid Slope	Orange	
619983	UTM83-8	629028	6822018	1328	9/17/2011	20	50	5	10	15	20-30	C	10-15	Talus/colluvium	Dry	Mixed forest	Mid Slope	Orange	
619984	UTM83-8	629029	6821972	1312	9/17/2011	30	35	0	5	30	10-20	C	5-10	Talus/colluvium	Dry	Mixed forest	Mid Slope	Orange	
619985	UTM83-8	629047	6821924	1295	9/17/2011	20	70	0	5	5	10-20	C	5-10	Talus/colluvium	Dry	Mixed forest	Mid Slope	Orange	
619986	UTM83-8	629051	6821885	1284	9/17/2011	25	55	0	5	15	0-10	C	2-5	Talus/colluvium	Dry	Mixed forest	Mid Slope	Orange	
619987	UTM83-8	629071	6821827	1267	9/17/2011	25	50	10	5	10	30-40	C	15-20	Talus/colluvium	Dry	Mixed forest	Mid Slope	Orange	
619988	UTM83-8	629066	6821776	1261	9/17/2011	30	50	5	5	10	30-40	C	10-15	Talus/colluvium	Dry	Mixed forest	Mid Slope	Light Brown	
619989	UTM83-8	629067	6821728	1247	9/17/2011	30	40	10	10	10	20-30	C	10-15	Talus/colluvium	Moist	Mixed forest	Mid Slope	Orange	
619990	UTM83-8	629073	6821681	1220	9/17/2011	30	40	0	5	25	10-20	C	5-10	Talus/colluvium	Moist	Mixed forest	Mid Slope	Orange	
619991	UTM83-8	629094	6821620	1224	9/17/2011	30	50	5	5	10	20-30	C	5-10	Talus/colluvium	Moist	Mixed forest	Mid Slope	Orange	
619992	UTM83-8	629092	6821581	1214	9/17/2011	30	35	0	5	30	30-40	B	15-20	Talus/colluvium	Moist	Mixed forest	Mid Slope	Dark Brown	
619993	UTM83-8	629105	6821526	1220	9/17/2011	30	50	10	5	5	20-30	B/C	10-15	Talus/colluvium	Moist	Mixed forest	Mid Slope	Light Brown	
619994	UTM83-8	629113	6821475	1181	9/17/2011	30	50	5	10	5	20-30	B	10-15	Talus/colluvium	Moist	Mixed forest	Mid Slope	Light Brown	
619995	UTM83-8	629116	6821429	1177	9/17/2011	25	50	5	5	15	20-30	B/C	10-15	Weathered bedrock	Moist	Mixed forest	Mid Slope	Light Brown	
619996	UTM83-8	629130	6821379	1166	9/17/2011	30	50	0	15	5	30-40	B	15-20	Weathered bedrock	Moist	Mixed forest	Mid Slope	Light Brown	
619997	UTM83-8	629135	6821338	1167	9/17/2011	25	50	0	20	5	10-20	B	5-10	Weathered bedrock	Moist	Mixed forest	Mid Slope	Light Brown	
619998	UTM83-8	629140	6821287	1155	9/17/2011	25	45	10	15	5	40-50	B	20-25	Weathered bedrock	Moist	Mixed forest	Mid Slope	Light Brown	duplicate of 619999
619999	UTM83-8	629140	6821284	1158	9/17/2011	25	45	5	20	5	40-50	B	20-25	Weathered bedrock	Moist	Mixed forest	Mid Slope	Light Brown	duplicate of 619998
620000	UTM83-8	629188	6819646	1360	9/18/2011	30	50	5	5	10	0-10	C	2-5	Talus/colluvium	Moist	Mixed forest	Mid Slope	Dark Grey	

Appendix 3

Assay Certificates



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Silver Predator Corp**
201A-170 Titanium Way
Whitehorse Yukon Y1A 1G0 Canada

Submitted By: Farrell Andersen
Receiving Lab: Canada-Whitehorse
Received: October 26, 2011
Report Date: November 09, 2011
Page: 1 of 8

CERTIFICATE OF ANALYSIS

WHI11001810.1

CLIENT JOB INFORMATION

Project: Grayling
Shipment ID: GRA-2011-AC-1555
P.O. Number: Quotation NA-11-435
Number of Samples: 186

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Silver Predator Corp
201A-170 Titanium Way
Whitehorse Yukon Y1A 1G0
Canada

CC: Jack Cote
Andrew Caldwell
Gilles Dessureau

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	186	Dry at 60C			WHI
SS80	186	Dry at 60C sieve 100g to -80 mesh			WHI
RJSV	186	Saving all or part of Soil Reject			WHI
1DX2	186	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Silver Predator Corp**
201A-170 Titanium Way
Whitehorse Yukon Y1A 1G0 Canada

Project: Grayling
Report Date: November 09, 2011

Page: 2 of 8 Part 1

CERTIFICATE OF ANALYSIS

WHI11001810.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
616001	Soil	8.6	3.3	29.6	37	0.2	9.1	1.0	3422	6.39	1.1	1.1	6.4	11	0.2	0.3	<0.1	2	0.42	0.042	66
616002	Soil	8.4	1.9	23.5	128	0.1	6.4	1.1	1753	5.49	1.0	8.0	10.3	10	0.4	0.6	<0.1	<2	0.24	0.028	87
616003	Soil	12.8	1.4	14.3	35	0.2	2.4	0.5	1263	3.31	2.3	5.7	22.6	9	0.1	0.4	<0.1	<2	0.11	0.026	153
616004	Soil	14.6	1.6	6.5	46	<0.1	1.7	1.3	2556	2.91	1.5	1.7	16.3	16	0.2	0.5	<0.1	3	0.02	0.034	118
616005	Soil	14.1	4.4	13.5	107	<0.1	8.5	2.0	5823	6.57	1.4	3.0	18.5	6	0.5	0.3	<0.1	6	0.04	0.083	191
616006	Soil	10.2	3.2	26.5	161	0.1	2.6	1.2	1554	3.81	1.9	1.6	4.9	17	0.5	0.7	<0.1	5	0.07	0.045	45
616007	Soil	5.7	1.9	11.5	111	<0.1	2.1	1.0	1178	5.68	2.4	<0.5	8.0	13	0.3	0.4	<0.1	5	0.16	0.019	64
616008	Soil	9.8	6.3	25.5	200	<0.1	5.7	3.7	5754	7.08	4.8	<0.5	8.2	15	1.1	0.5	0.2	17	0.19	0.073	72
616009	Soil	13.2	3.8	12.2	101	<0.1	2.0	1.8	4271	5.57	1.2	3.4	10.5	19	0.4	0.6	<0.1	3	0.10	0.029	76
616010	Soil	8.5	12.4	29.9	436	0.2	2.7	1.9	2908	4.08	4.2	2.1	11.4	15	2.4	1.1	<0.1	11	0.10	0.049	99
616011	Soil	12.3	3.9	26.4	93	0.2	1.6	2.2	3152	5.38	3.2	<0.5	12.6	12	0.4	0.6	<0.1	<2	0.12	0.040	103
616012	Soil	13.4	3.8	48.0	88	<0.1	1.2	0.7	740	3.46	15.0	<0.5	14.1	6	<0.1	1.4	0.1	4	0.02	0.033	128
616013	Soil	6.7	4.9	91.6	69	<0.1	24.3	2.2	1352	3.80	3.9	3.3	4.0	4	0.2	0.5	<0.1	4	0.02	0.057	56
616014	Soil	10.9	3.2	12.0	44	<0.1	0.6	0.5	314	3.16	7.7	0.7	16.3	6	0.1	1.3	<0.1	<2	0.03	0.027	105
616015	Soil	16.1	5.3	39.4	51	<0.1	1.3	0.7	289	4.02	12.7	0.6	6.9	12	<0.1	2.5	0.1	6	0.01	0.043	85
616016	Soil	10.7	5.0	18.9	95	<0.1	0.8	0.6	653	3.54	7.1	<0.5	8.2	4	0.1	1.4	<0.1	3	<0.01	0.031	95
616017	Soil	10.5	2.4	12.1	66	<0.1	1.1	0.9	737	3.26	1.8	0.5	7.1	12	<0.1	0.4	<0.1	3	0.25	0.029	80
616018	Soil	5.4	3.4	6.8	54	<0.1	0.9	0.7	396	1.98	2.7	7.3	0.8	4	<0.1	0.6	<0.1	9	0.02	0.033	16
616019	Soil	9.9	9.3	43.4	153	<0.1	3.3	1.8	748	4.10	19.1	3.3	11.5	6	0.3	1.5	0.3	11	0.02	0.031	62
616020	Soil	25.1	4.5	63.3	54	0.3	1.0	0.4	138	2.79	17.7	3.5	9.5	8	<0.1	4.7	0.2	6	<0.01	0.023	44
616021	Soil	19.1	10.7	54.6	189	0.8	0.4	0.4	196	9.52	23.1	1.9	15.6	4	0.2	1.9	0.2	<2	<0.01	0.069	19
616022	Soil	6.9	8.7	88.4	81	0.9	7.4	2.3	236	2.71	36.4	2.3	7.1	6	0.2	1.9	0.3	18	0.03	0.035	44
616023	Soil	5.1	18.0	133.4	175	1.4	11.8	7.5	797	2.84	77.8	5.8	58.3	13	0.2	1.8	0.5	30	0.04	0.033	49
616024	Soil	13.6	17.3	130.7	205	0.4	0.6	0.1	32	2.93	70.4	4.3	20.1	4	<0.1	4.2	0.2	<2	<0.01	0.035	125
616025	Soil	43.5	8.0	89.4	328	0.9	2.8	0.3	53	4.40	181.2	4.9	14.6	42	4.3	16.7	0.2	439	0.04	0.046	138
616026	Soil	3.2	8.6	85.7	230	0.3	6.9	1.9	559	1.39	35.4	2.5	4.9	8	0.7	1.2	0.4	19	0.13	0.076	40
616027	Soil	3.7	11.4	86.9	238	0.5	14.4	3.8	717	2.42	44.9	3.4	5.1	13	1.2	1.2	0.4	26	0.18	0.065	55
616028	Soil	38.0	4.2	23.5	39	<0.1	1.0	0.8	2040	5.42	4.5	7.7	17.5	6	<0.1	1.2	<0.1	<2	0.06	0.027	134
616029	Soil	5.3	6.4	13.7	77	<0.1	7.5	2.8	847	3.36	4.7	3.2	4.7	8	0.2	0.7	<0.1	19	0.07	0.030	77
616030	Soil	4.0	8.5	7.5	52	<0.1	4.2	3.4	2724	2.91	3.0	2.0	1.0	9	0.2	0.4	0.1	24	0.08	0.079	41



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Report Date: November 09, 2011

Page: 2 of 8 Part 2

CERTIFICATE OF ANALYSIS

WHI11001810.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
616001	Soil	16	0.13	182	0.003	3	0.36	0.004	0.16	0.2	0.03	1.4	<0.1	<0.05	2	<0.5	<0.2
616002	Soil	11	0.14	187	0.003	2	0.67	0.003	0.09	0.3	0.03	2.7	<0.1	<0.05	6	<0.5	<0.2
616003	Soil	4	0.08	167	0.005	3	0.44	0.003	0.19	0.1	0.02	2.2	<0.1	<0.05	3	<0.5	<0.2
616004	Soil	3	0.08	216	0.004	4	1.04	0.008	0.13	0.1	0.02	0.9	<0.1	<0.05	4	<0.5	<0.2
616005	Soil	13	0.11	196	0.008	1	0.68	0.008	0.04	0.1	0.10	2.2	0.1	<0.05	4	<0.5	<0.2
616006	Soil	4	0.14	304	0.002	3	1.21	0.005	0.06	<0.1	0.04	1.1	<0.1	<0.05	5	<0.5	<0.2
616007	Soil	4	0.54	178	0.035	<1	1.87	0.006	0.19	0.1	0.02	1.3	<0.1	<0.05	11	<0.5	<0.2
616008	Soil	10	0.44	506	0.058	1	1.26	0.008	0.12	0.2	0.08	2.7	0.1	<0.05	9	<0.5	<0.2
616009	Soil	2	0.10	676	0.005	2	0.59	0.009	0.07	0.2	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
616010	Soil	3	0.10	209	0.020	1	0.51	0.020	0.09	0.4	0.09	1.1	<0.1	<0.05	3	<0.5	<0.2
616011	Soil	2	0.07	173	0.003	1	0.33	0.006	0.12	0.1	0.03	0.9	<0.1	<0.05	1	<0.5	<0.2
616012	Soil	2	0.04	93	0.003	2	0.37	0.003	0.09	0.2	0.01	0.6	<0.1	<0.05	2	<0.5	<0.2
616013	Soil	43	0.05	80	0.002	<1	0.47	0.006	0.09	0.1	0.01	0.5	<0.1	<0.05	2	<0.5	<0.2
616014	Soil	<1	0.01	51	<0.001	<1	0.15	0.003	0.05	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
616015	Soil	3	0.03	43	0.005	<1	0.32	0.005	0.07	0.1	<0.01	0.4	<0.1	<0.05	2	<0.5	<0.2
616016	Soil	1	0.02	71	0.002	1	0.36	0.005	0.07	0.1	<0.01	0.3	<0.1	<0.05	1	<0.5	<0.2
616017	Soil	2	0.07	254	0.002	<1	0.76	0.005	0.10	<0.1	<0.01	0.7	<0.1	<0.05	2	<0.5	<0.2
616018	Soil	2	0.03	56	0.005	<1	0.41	0.013	0.04	0.1	0.01	0.2	<0.1	<0.05	2	<0.5	<0.2
616019	Soil	7	0.10	62	0.010	<1	0.73	0.007	0.06	0.2	0.02	0.6	<0.1	<0.05	4	<0.5	<0.2
616020	Soil	3	0.04	33	0.007	<1	0.19	0.006	0.06	0.3	<0.01	0.3	<0.1	<0.05	2	<0.5	0.2
616021	Soil	1	0.01	19	0.003	<1	0.60	0.014	0.04	0.3	0.05	0.6	<0.1	<0.05	2	<0.5	<0.2
616022	Soil	11	0.26	35	0.012	<1	0.78	0.011	0.04	0.2	0.01	0.9	<0.1	<0.05	3	<0.5	<0.2
616023	Soil	17	0.35	128	0.027	<1	1.13	0.009	0.08	0.2	0.03	2.2	<0.1	<0.05	4	<0.5	<0.2
616024	Soil	<1	<0.01	214	<0.001	1	0.25	0.003	0.07	0.1	0.10	0.4	<0.1	<0.05	2	<0.5	<0.2
616025	Soil	14	0.01	459	0.002	3	0.36	0.009	0.14	0.4	0.11	0.5	0.9	0.16	5	6.9	<0.2
616026	Soil	7	0.15	62	0.007	<1	0.57	0.006	0.07	0.1	<0.01	0.6	<0.1	<0.05	2	<0.5	<0.2
616027	Soil	15	0.42	127	0.010	<1	0.97	0.010	0.08	0.2	0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
616028	Soil	1	0.04	182	0.005	2	0.28	0.003	0.17	0.1	<0.01	0.8	<0.1	<0.05	2	<0.5	<0.2
616029	Soil	14	0.22	184	0.011	<1	1.02	0.005	0.07	0.2	<0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
616030	Soil	10	0.08	203	0.013	<1	0.70	0.012	0.06	0.1	0.07	0.6	<0.1	<0.05	4	<0.5	<0.2



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Grayling

Report Date:

November 09, 2011

Page:

3 of 8

Part 1

CERTIFICATE OF ANALYSIS

WHI11001810.1

	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
616031	Soil																							
616032	Soil																							
616033	Soil																							
616034	Soil																							
616035	Soil																							
616036	Soil																							
616037	Soil																							
616038	Soil																							
616039	Soil																							
616040	Soil																							
616041	Soil																							
616042	Soil																							
616043	Soil																							
616044	Soil																							
616045	Soil																							
616046	Soil																							
616047	Soil																							
616048	Soil																							
616049	Soil																							
616050	Soil																							
619951	Soil																							
619952	Soil																							
619953	Soil																							
619954	Soil																							
619955	Soil																							
619956	Soil																							
619957	Soil																							
619958	Soil																							
619959	Soil																							
619960	Soil																							



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Report Date: November 09, 2011

Page: 3 of 8 Part 2

CERTIFICATE OF ANALYSIS

WHI11001810.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr ppm 1	Mg % 0.01	Ba ppm 1	Ti % 0.001	B ppm 1	Al % 0.01	Na % 0.001	K % 0.01	W ppm 0.1	Hg ppm 0.01	Sc ppm 0.1	Ti ppm 0.1	S % 0.05	Ga ppm 1	Se ppm 0.5	Te ppm 0.2
616031	Soil	16	0.22	105	0.023	<1	0.97	0.008	0.05	0.2	0.02	1.1	<0.1	<0.05	3	<0.5	<0.2
616032	Soil	4	0.07	72	0.009	<1	0.49	0.003	0.06	0.2	<0.01	0.5	<0.1	<0.05	2	<0.5	<0.2
616033	Soil	8	0.07	167	0.011	<1	0.51	0.006	0.05	0.1	0.02	0.5	<0.1	<0.05	4	<0.5	<0.2
616034	Soil	17	0.30	120	0.018	<1	1.02	0.005	0.04	0.3	<0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
616035	Soil	2	0.19	270	0.001	<1	1.23	0.003	0.05	<0.1	0.02	0.9	<0.1	<0.05	6	<0.5	<0.2
616036	Soil	3	0.28	167	0.002	<1	1.28	0.007	0.06	<0.1	0.03	2.6	<0.1	<0.05	6	<0.5	<0.2
616037	Soil	6	0.19	208	0.009	3	0.73	0.008	0.08	0.1	0.04	1.6	<0.1	<0.05	3	<0.5	<0.2
616038	Soil	3	0.06	137	0.005	1	0.45	0.005	0.06	0.1	0.02	0.8	0.1	<0.05	2	<0.5	<0.2
616039	Soil	2	0.08	49	0.004	1	0.22	0.002	0.06	0.1	0.01	0.9	<0.1	<0.05	1	<0.5	<0.2
616040	Soil	5	0.15	133	0.005	1	0.81	0.011	0.10	0.1	0.02	1.3	<0.1	<0.05	3	<0.5	<0.2
616041	Soil	6	0.10	82	0.005	<1	1.25	0.005	0.07	0.2	0.01	0.6	0.1	<0.05	5	<0.5	<0.2
616042	Soil	6	0.09	105	0.011	<1	0.72	0.019	0.08	0.2	0.02	0.5	<0.1	<0.05	3	<0.5	<0.2
616043	Soil	6	0.07	43	0.015	<1	0.60	0.013	0.06	0.1	0.03	0.4	0.2	0.06	3	<0.5	<0.2
616044	Soil	6	0.15	92	0.007	3	0.93	0.010	0.16	0.3	0.02	1.1	<0.1	<0.05	3	<0.5	<0.2
616045	Soil	3	0.08	140	0.004	<1	0.79	0.006	0.08	0.2	<0.01	0.6	<0.1	<0.05	4	<0.5	<0.2
616046	Soil	3	0.04	68	0.012	<1	0.71	0.022	0.03	0.1	0.02	0.5	<0.1	<0.05	4	<0.5	<0.2
616047	Soil	3	0.04	123	0.012	<1	0.49	0.021	0.05	0.1	0.01	0.3	<0.1	<0.05	3	<0.5	<0.2
616048	Soil	8	0.20	175	0.009	<1	0.89	0.004	0.07	0.1	0.01	1.2	0.2	<0.05	3	<0.5	<0.2
616049	Soil	5	0.38	401	0.011	1	0.96	0.004	0.03	0.2	2.44	2.2	0.2	0.09	2	<0.5	<0.2
616050	Soil	8	0.32	141	0.009	2	0.80	0.011	0.16	0.3	0.02	1.4	<0.1	<0.05	3	<0.5	<0.2
619951	Soil	20	0.93	46	0.028	1	1.33	0.006	0.04	0.2	0.05	1.4	<0.1	<0.05	8	<0.5	0.2
619952	Soil	18	1.12	90	0.031	<1	1.64	0.008	0.05	0.3	0.02	2.6	<0.1	<0.05	9	<0.5	0.5
619953	Soil	13	1.09	74	0.022	1	1.40	0.011	0.04	0.2	0.02	1.8	<0.1	<0.05	8	<0.5	0.5
619954	Soil	2	0.14	30	0.024	<1	0.45	0.038	0.03	<0.1	<0.01	0.6	<0.1	<0.05	2	<0.5	<0.2
619955	Soil	12	1.57	76	0.015	1	1.90	0.008	0.04	0.2	0.03	1.5	<0.1	<0.05	12	<0.5	0.7
619956	Soil	9	0.58	119	0.006	2	1.11	0.010	0.09	0.2	0.03	1.2	<0.1	0.08	5	<0.5	0.3
619957	Soil	6	0.23	25	0.007	<1	0.47	0.019	0.02	<0.1	0.02	0.1	<0.1	<0.05	3	<0.5	<0.2
619958	Soil	10	0.47	154	0.006	2	1.02	0.011	0.11	0.2	0.03	1.4	<0.1	0.08	5	1.6	<0.2
619959	Soil	3	0.13	25	0.031	<1	0.46	0.044	0.03	<0.1	<0.01	0.6	<0.1	<0.05	2	<0.5	<0.2
619960	Soil	7	0.32	109	0.007	<1	0.98	0.031	0.04	0.1	0.01	0.6	<0.1	<0.05	4	0.6	<0.2



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Report Date: November 09, 2011

Page: 4 of 8 Part 1

CERTIFICATE OF ANALYSIS

WHI11001810.1

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
619961	Soil	8.6	1.5	7.8	29	<0.1	2.8	1.0	81	0.82	6.2	<0.5	0.2	6	<0.1	0.2	0.2	15	0.07	0.021	17
619962	Soil	1.7	0.9	5.0	13	<0.1	1.3	0.7	30	0.42	1.4	<0.5	0.1	4	<0.1	<0.1	<0.1	13	0.03	0.019	11
619963	Soil	2.2	3.2	8.0	15	0.1	1.4	0.7	47	0.63	1.7	2.0	0.2	4	<0.1	0.1	0.2	14	0.03	0.030	23
619964	Soil	2.1	6.6	120.8	34	0.5	3.4	1.1	44	0.83	113.6	7.9	0.3	5	0.1	2.7	0.9	13	0.03	0.024	18
619965	Soil	12.1	21.2	312.7	755	0.6	38.5	7.8	2082	3.74	88.3	4.2	16.8	10	4.4	2.5	1.1	35	0.08	0.085	92
619966	Soil	4.1	9.6	232.6	100	0.5	11.2	1.9	85	1.33	28.9	6.3	0.9	6	0.2	1.5	0.6	28	0.06	0.037	27
619967	Soil	6.0	13.9	58.3	703	0.4	14.8	4.8	440	2.42	16.8	1.2	3.2	17	2.5	0.5	1.0	24	0.42	0.078	57
619968	Soil	3.3	4.1	29.6	79	0.2	11.6	2.7	132	1.67	11.2	1.4	4.3	7	0.3	0.3	0.4	27	0.09	0.036	32
619969	Soil	3.7	6.7	55.8	138	0.1	7.0	2.8	499	1.94	10.0	1.3	2.2	18	0.3	0.5	0.3	18	0.25	0.065	87
619970	Soil	8.2	10.2	64.3	237	0.4	12.9	2.3	383	2.05	46.1	2.7	7.3	15	0.9	1.5	0.5	26	0.25	0.060	117
619971	Soil	7.9	13.8	158.5	348	0.5	11.8	3.1	706	2.68	125.7	6.5	5.0	7	1.2	2.4	0.9	28	0.08	0.061	85
619972	Soil	4.3	8.1	99.0	113	0.4	9.2	3.2	319	1.77	61.1	6.4	3.0	6	0.3	1.3	0.6	27	0.07	0.041	44
619973	Soil	3.5	7.4	65.5	188	0.4	6.6	1.7	444	1.58	51.1	3.8	2.3	6	0.6	1.1	0.5	16	0.06	0.048	32
619974	Soil	4.7	6.5	14.9	42	<0.1	7.4	3.1	411	2.22	9.6	2.1	5.6	13	<0.1	0.3	0.4	16	0.26	0.040	40
619975	Soil	3.7	7.3	13.8	50	<0.1	9.0	3.5	387	3.25	5.7	<0.5	6.2	7	0.2	0.4	0.3	32	0.05	0.026	43
619976	Soil	5.1	6.9	15.8	58	<0.1	5.2	1.8	339	2.54	6.5	1.0	4.2	4	0.1	0.6	0.2	26	0.03	0.029	42
619977	Soil	5.0	6.3	41.8	99	<0.1	6.2	2.4	397	2.98	7.0	3.6	9.5	5	0.2	0.4	0.3	21	0.03	0.020	56
619978	Soil	2.6	3.8	11.2	56	<0.1	1.9	1.1	169	1.30	1.5	<0.5	2.6	6	0.3	0.2	0.1	11	0.04	0.015	23
619979	Soil	4.9	3.9	25.4	87	<0.1	1.5	0.9	340	2.17	3.4	<0.5	4.5	4	0.6	0.4	0.2	11	0.02	0.021	41
619980	Soil	7.3	7.0	36.5	104	<0.1	4.7	2.0	525	3.59	9.4	1.8	17.8	3	0.2	0.7	0.3	13	0.01	0.022	72
619981	Soil	24.6	5.7	29.1	71	0.4	3.1	1.4	361	3.57	8.4	0.7	19.7	3	0.3	1.0	0.3	13	0.02	0.026	97
619982	Soil	15.0	4.1	44.9	80	0.5	1.7	0.5	446	7.23	22.9	1.2	8.5	4	0.4	1.6	0.1	5	0.02	0.019	45
619983	Soil	6.9	6.9	34.6	76	0.2	3.0	1.8	1272	2.78	3.9	1.6	8.3	5	0.5	0.4	0.2	16	0.03	0.028	49
619984	Soil	4.1	6.0	30.5	83	0.1	3.4	1.8	879	3.13	4.6	<0.5	3.7	6	0.3	0.4	0.2	19	0.03	0.030	27
619985	Soil	7.1	5.7	36.8	137	<0.1	3.6	1.7	462	3.00	8.1	1.9	7.7	6	0.5	0.5	0.3	17	0.04	0.030	69
619986	Soil	4.8	4.3	23.6	85	<0.1	2.6	1.3	510	3.14	6.1	4.7	5.7	5	0.3	0.4	0.3	16	0.02	0.030	47
619987	Soil	5.7	6.5	27.6	78	0.2	4.4	2.0	412	3.41	10.6	0.6	10.3	5	0.2	0.7	0.2	16	0.03	0.027	50
619988	Soil	6.5	5.5	25.9	64	<0.1	4.3	1.9	484	3.68	11.8	<0.5	12.9	4	0.2	0.7	0.3	16	0.03	0.031	63
619989	Soil	5.8	5.5	18.1	57	<0.1	3.9	1.9	388	3.80	11.7	2.0	10.5	4	0.1	0.8	0.3	19	0.02	0.026	58
619990	Soil	6.9	6.7	30.1	77	<0.1	5.3	3.2	749	4.14	21.2	<0.5	6.2	4	0.3	1.1	0.6	21	0.03	0.041	49



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Project: Grayling
Report Date: November 09, 2011

Page: 4 of 8 Part 2

CERTIFICATE OF ANALYSIS

WHI11001810.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
619961	Soil	3	0.11	48	0.007	<1	0.45	0.021	0.03	<0.1	<0.01	0.2	<0.1	<0.05	2	<0.5	<0.2
619962	Soil	3	0.05	18	0.007	<1	0.26	0.016	0.02	<0.1	0.01	0.2	<0.1	<0.05	2	<0.5	<0.2
619963	Soil	4	0.06	23	0.010	<1	0.58	0.015	0.03	<0.1	0.01	0.2	<0.1	<0.05	4	<0.5	<0.2
619964	Soil	4	0.09	34	0.009	<1	0.31	0.016	0.04	0.1	0.01	0.3	<0.1	<0.05	2	<0.5	<0.2
619965	Soil	13	0.56	233	0.010	2	1.06	0.007	0.14	0.3	0.02	2.2	0.1	<0.05	4	1.0	0.4
619966	Soil	12	0.44	76	0.010	<1	1.04	0.012	0.05	0.2	<0.01	0.6	<0.1	<0.05	5	<0.5	<0.2
619967	Soil	13	0.70	159	0.012	1	1.57	0.019	0.05	0.2	0.02	1.3	0.1	0.07	7	1.3	0.5
619968	Soil	13	0.73	78	0.014	<1	1.11	0.015	0.04	0.2	<0.01	1.2	<0.1	<0.05	6	<0.5	0.2
619969	Soil	7	0.25	229	0.014	<1	0.88	0.025	0.05	0.1	0.03	0.8	<0.1	0.06	3	<0.5	<0.2
619970	Soil	10	0.24	126	0.010	1	0.71	0.008	0.08	0.2	0.01	0.9	<0.1	<0.05	3	0.8	<0.2
619971	Soil	10	0.20	73	0.004	1	0.81	0.005	0.07	0.2	0.03	0.8	0.1	<0.05	3	0.7	<0.2
619972	Soil	12	0.31	44	0.009	<1	0.92	0.008	0.05	0.2	0.02	0.7	<0.1	<0.05	4	<0.5	<0.2
619973	Soil	6	0.14	60	0.005	2	0.58	0.011	0.05	0.1	0.02	0.7	<0.1	<0.05	3	<0.5	<0.2
619974	Soil	11	0.25	144	0.011	4	0.87	0.009	0.05	0.3	0.02	1.1	<0.1	<0.05	3	<0.5	<0.2
619975	Soil	17	0.36	111	0.036	1	1.24	0.010	0.04	0.2	0.01	1.2	<0.1	<0.05	6	<0.5	<0.2
619976	Soil	10	0.13	59	0.020	1	0.77	0.007	0.04	0.2	0.02	0.7	<0.1	<0.05	4	<0.5	<0.2
619977	Soil	12	0.18	118	0.020	1	1.08	0.006	0.05	0.2	0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
619978	Soil	3	0.06	67	0.016	<1	0.49	0.020	0.04	0.1	<0.01	0.5	<0.1	<0.05	3	<0.5	<0.2
619979	Soil	4	0.04	55	0.014	1	0.48	0.012	0.05	0.2	<0.01	0.6	<0.1	<0.05	3	<0.5	<0.2
619980	Soil	8	0.12	78	0.014	2	0.81	0.002	0.08	0.3	0.01	1.3	0.1	<0.05	4	<0.5	<0.2
619981	Soil	6	0.05	49	0.020	1	0.58	0.005	0.05	0.4	0.02	0.6	0.1	<0.05	3	<0.5	<0.2
619982	Soil	3	0.02	49	0.009	<1	0.36	0.011	0.09	0.2	0.03	0.4	<0.1	0.13	2	<0.5	<0.2
619983	Soil	7	0.06	124	0.017	<1	0.73	0.010	0.05	0.2	0.02	0.7	0.1	<0.05	4	<0.5	<0.2
619984	Soil	6	0.06	86	0.030	<1	0.69	0.015	0.04	0.2	0.03	0.9	0.1	<0.05	4	<0.5	<0.2
619985	Soil	8	0.10	112	0.015	1	0.91	0.008	0.07	0.3	0.01	0.8	<0.1	<0.05	5	<0.5	<0.2
619986	Soil	6	0.05	69	0.014	<1	0.59	0.007	0.05	0.3	0.01	0.5	<0.1	<0.05	4	<0.5	<0.2
619987	Soil	8	0.13	92	0.020	1	0.86	0.008	0.08	0.3	0.02	1.1	0.1	<0.05	4	<0.5	<0.2
619988	Soil	9	0.12	110	0.019	1	0.77	0.003	0.09	0.3	0.01	1.1	0.1	<0.05	4	<0.5	<0.2
619989	Soil	7	0.11	92	0.027	<1	0.70	0.004	0.10	0.3	<0.01	0.8	0.1	<0.05	5	<0.5	<0.2
619990	Soil	7	0.11	90	0.029	<1	0.45	0.004	0.06	0.7	<0.01	0.8	<0.1	<0.05	4	<0.5	<0.2



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Project: Grayling
Report Date: November 09, 2011

Page: 5 of 8 Part 1

CERTIFICATE OF ANALYSIS

WHI11001810.1

	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
619991	Soil																							
619992	Soil																							
619993	Soil																							
619994	Soil																							
619995	Soil																							
619996	Soil																							
619997	Soil																							
619998	Soil																							
619999	Soil																							
620000	Soil																							
618001	Soil																							
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618019	Soil																							
618020	Soil																							



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Project: Grayling
Report Date: November 09, 2011

Page: 5 of 8 Part 2

CERTIFICATE OF ANALYSIS

WHI11001810.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
619991	Soil	14	0.24	142	0.028	1	0.90	0.006	0.07	0.3	0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
619992	Soil	13	0.19	184	0.017	1	0.73	0.006	0.11	0.3	0.03	1.6	0.2	<0.05	3	<0.5	<0.2
619993	Soil	20	0.37	185	0.034	1	1.11	0.009	0.09	0.3	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
619994	Soil	17	0.35	213	0.027	1	1.00	0.014	0.08	0.2	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
619995	Soil	17	0.50	137	0.033	2	1.05	0.008	0.12	0.3	0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
619996	Soil	15	0.53	142	0.025	2	1.01	0.016	0.09	0.3	0.03	1.7	<0.1	<0.05	3	<0.5	<0.2
619997	Soil	17	0.53	176	0.022	2	1.23	0.015	0.09	0.3	0.03	1.9	<0.1	<0.05	4	0.7	<0.2
619998	Soil	14	0.39	179	0.021	2	0.99	0.011	0.10	0.3	0.03	1.6	<0.1	<0.05	3	0.8	<0.2
619999	Soil	9	0.26	123	0.022	2	0.73	0.023	0.06	0.2	0.03	1.1	<0.1	<0.05	2	<0.5	<0.2
620000	Soil	27	0.84	130	0.022	1	2.28	0.008	0.16	0.3	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
618001	Soil	20	0.33	133	0.047	<1	1.05	0.010	0.05	0.2	<0.01	2.1	<0.1	<0.05	4	<0.5	0.5
618002	Soil	24	1.05	112	0.052	<1	1.87	0.007	0.04	0.2	0.01	2.7	<0.1	<0.05	9	<0.5	1.0
618003	Soil	24	0.70	127	0.051	1	1.64	0.012	0.04	0.2	0.02	2.4	<0.1	<0.05	7	<0.5	0.2
618004	Soil	30	0.58	81	0.054	1	1.47	0.006	0.05	0.3	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
618005	Soil	30	0.63	91	0.048	1	1.65	0.007	0.05	0.4	0.02	2.5	<0.1	<0.05	6	0.6	0.6
618006	Soil	27	0.60	85	0.044	1	1.51	0.006	0.04	0.3	0.02	2.4	<0.1	<0.05	6	<0.5	0.6
618007	Soil	26	0.56	75	0.056	1	1.36	0.007	0.04	0.5	0.02	2.2	<0.1	<0.05	5	<0.5	0.3
618008	Soil	23	1.08	168	0.049	1	1.82	0.009	0.09	0.5	0.02	2.7	<0.1	<0.05	8	<0.5	<0.2
618009	Soil	27	0.93	123	0.059	1	1.55	0.013	0.08	0.3	<0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
618010	Soil	25	0.77	146	0.066	2	1.59	0.009	0.05	0.3	0.01	2.9	<0.1	<0.05	7	<0.5	0.6
618011	Soil	20	0.67	95	0.055	1	1.09	0.015	0.05	0.3	<0.01	2.4	<0.1	<0.05	5	<0.5	0.2
618012	Soil	3	0.11	29	0.027	<1	0.40	0.033	0.05	<0.1	<0.01	0.7	<0.1	<0.05	2	<0.5	<0.2
618013	Soil	20	0.82	168	0.041	<1	1.76	0.017	0.07	0.3	0.01	2.2	<0.1	<0.05	7	<0.5	<0.2
618014	Soil	19	0.83	146	0.025	1	1.44	0.007	0.03	0.3	0.02	2.9	<0.1	<0.05	7	0.9	<0.2
618015	Soil	15	1.16	105	0.029	1	1.61	0.014	0.05	0.3	0.02	2.7	<0.1	<0.05	10	<0.5	0.4
618016	Soil	17	1.05	77	0.032	1	1.64	0.018	0.05	0.3	0.02	2.8	<0.1	<0.05	9	0.6	0.3
618017	Soil	2	0.07	108	0.002	<1	0.25	0.403	0.13	0.7	<0.01	0.6	<0.1	1.19	2	16.7	3.0
618018	Soil	4	0.14	57	0.003	<1	0.42	0.123	0.05	0.4	<0.01	0.4	<0.1	0.28	4	15.1	2.6
618019	Soil	2	0.05	173	0.002	3	0.26	0.007	0.22	0.3	0.04	1.1	0.4	0.26	2	3.4	<0.2
618020	Soil	2	0.03	67	0.003	1	0.18	0.004	0.12	0.3	0.02	1.0	0.2	0.06	1	2.1	<0.2



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Report Date: November 09, 2011

Page: 6 of 8 Part 1

CERTIFICATE OF ANALYSIS

WHI11001810.1

	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
618021	Soil																							
618022	Soil																							
618023	Soil																							
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Report Date: November 09, 2011

Page: 6 of 8 Part 2

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WHI11001810.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
618021	Soil	10	0.55	102	0.013	<1	1.07	0.098	0.07	0.7	<0.01	1.6	<0.1	0.23	6	5.3	0.8
618022	Soil	42	2.02	109	0.021	2	2.25	0.007	0.08	0.2	0.03	4.1	<0.1	<0.05	14	0.7	0.6
618023	Soil	25	1.66	119	0.016	<1	1.93	0.017	0.07	0.2	<0.01	3.8	<0.1	<0.05	12	0.6	0.4
618024	Soil	16	0.51	71	0.019	<1	1.54	0.014	0.05	0.2	0.02	0.8	<0.1	<0.05	7	1.1	<0.2
618025	Soil	9	0.59	58	0.022	<1	1.70	0.016	0.05	0.2	<0.01	0.9	<0.1	<0.05	12	0.8	<0.2
618026	Soil	10	0.47	54	0.023	<1	1.32	0.009	0.04	0.2	<0.01	1.1	<0.1	<0.05	7	0.7	<0.2
618027	Soil	10	0.47	52	0.022	<1	1.34	0.008	0.04	0.2	<0.01	1.0	<0.1	<0.05	7	1.1	<0.2
618028	Soil	7	0.11	163	0.012	<1	0.37	0.012	0.19	0.3	0.04	0.7	0.2	0.26	2	<0.5	<0.2
618029	Soil	8	0.13	140	0.016	<1	0.54	0.017	0.26	0.3	0.04	0.9	0.1	0.39	3	<0.5	<0.2
618030	Soil	2	0.05	83	0.004	<1	0.32	0.003	0.08	0.2	0.04	0.6	0.1	<0.05	2	<0.5	<0.2
618031	Soil	5	0.09	90	0.007	2	0.33	0.003	0.10	0.4	0.07	0.8	0.2	<0.05	2	2.6	<0.2
618032	Soil	20	0.32	219	0.027	1	1.16	0.007	0.05	0.4	0.03	2.1	<0.1	<0.05	4	<0.5	<0.2
618033	Soil	4	0.09	144	0.004	<1	0.69	0.003	0.13	0.2	0.02	1.0	<0.1	<0.05	3	<0.5	<0.2
618034	Soil	<1	0.02	78	0.002	6	0.16	0.010	0.92	0.3	<0.01	0.4	0.2	1.61	3	<0.5	<0.2
618035	Soil	18	0.28	108	0.019	<1	1.00	0.006	0.05	0.2	0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
618036	Soil	17	0.32	102	0.019	<1	0.95	0.009	0.05	0.2	0.01	2.3	<0.1	<0.05	3	0.6	<0.2
618037	Soil	3	0.10	115	0.011	<1	0.58	0.017	0.03	0.1	0.35	0.6	<0.1	<0.05	2	<0.5	<0.2
618038	Soil	1	0.05	102	0.011	1	0.25	0.010	0.10	0.2	0.34	1.1	<0.1	<0.05	3	<0.5	<0.2
618039	Soil	<1	0.03	138	0.008	3	0.28	0.010	0.14	0.1	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
618040	Soil	<1	0.03	80	0.002	1	0.20	0.005	0.08	0.1	<0.01	0.7	<0.1	<0.05	2	<0.5	<0.2
618041	Soil	<1	0.02	73	0.004	<1	0.18	0.003	0.05	0.1	<0.01	0.4	<0.1	<0.05	2	<0.5	<0.2
618042	Soil	3	0.06	64	0.007	<1	0.41	0.011	0.04	0.2	0.02	0.5	0.1	<0.05	2	<0.5	<0.2
618043	Soil	5	0.09	63	0.007	<1	0.37	0.005	0.04	0.2	<0.01	0.7	<0.1	<0.05	2	<0.5	<0.2
618044	Soil	5	0.06	52	0.004	<1	0.52	0.003	0.04	0.1	<0.01	0.7	<0.1	<0.05	2	<0.5	<0.2
618045	Soil	<1	0.03	21	0.001	2	0.17	0.002	0.07	0.1	0.01	0.6	<0.1	<0.05	1	<0.5	<0.2
618046	Soil	3	0.06	52	0.005	1	0.29	0.002	0.05	0.2	<0.01	0.8	0.2	<0.05	2	<0.5	<0.2
618047	Soil	<1	0.06	54	0.002	3	0.21	0.002	0.13	0.3	<0.01	0.9	<0.1	0.17	2	<0.5	<0.2
618048	Soil	21	0.60	170	0.023	2	1.31	0.012	0.18	0.3	0.03	2.1	0.1	<0.05	5	<0.5	<0.2
618049	Soil	22	0.64	152	0.032	3	1.42	0.014	0.18	0.3	0.02	2.5	0.1	<0.05	5	<0.5	<0.2
618050	Soil	20	0.58	175	0.023	5	1.35	0.012	0.16	0.4	0.04	2.0	0.1	<0.05	5	0.5	<0.2



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Report Date: November 09, 2011

Page: 7 of 8 Part 1

CERTIFICATE OF ANALYSIS

WHI11001810.1

	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
616051	Soil																							
616052	Soil																							
616053	Soil																							
616054	Soil																							
616055	Soil																							
616056	Soil																							
616057	Soil																							
616058	Soil																							
616059	Soil																							
616060	Soil																							
616061	Soil																							
616062	Soil																							
618051	Soil																							
618052	Soil																							
618053	Soil																							
618054	Soil																							
618055	Soil																							
618056	Soil																							
619901	Soil																							
619902	Soil																							
619903	Soil																							
619904	Soil																							
619905	Soil																							
619906	Soil																							
619907	Soil																							
619908	Soil																							
619909	Soil																							
619910	Soil																							
619911	Soil																							
619912	Soil																							



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Report Date: November 09, 2011

Page: 7 of 8 Part 2

CERTIFICATE OF ANALYSIS

WHI11001810.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
616051	Soil	6	0.20	100	0.007	8	0.72	0.007	0.15	0.3	0.03	1.3	<0.1	<0.05	3	<0.5	<0.2
616052	Soil	13	0.48	158	0.012	4	0.93	0.011	0.23	0.8	0.03	2.0	0.1	<0.05	4	<0.5	<0.2
616053	Soil	12	0.51	140	0.012	3	0.84	0.011	0.17	0.3	0.03	1.5	0.1	<0.05	3	<0.5	<0.2
616054	Soil	13	0.45	169	0.012	3	0.95	0.010	0.18	0.6	0.03	1.6	0.1	<0.05	4	<0.5	<0.2
616055	Soil	10	0.36	152	0.010	3	0.91	0.010	0.16	0.3	0.03	1.5	<0.1	<0.05	4	<0.5	<0.2
616056	Soil	10	0.29	142	0.008	3	0.91	0.008	0.15	0.2	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
616057	Soil	11	0.39	172	0.009	4	1.10	0.011	0.24	0.7	0.04	1.8	0.2	<0.05	4	<0.5	<0.2
616058	Soil	10	0.27	151	0.009	3	0.92	0.008	0.18	0.4	0.02	0.9	0.1	<0.05	4	<0.5	<0.2
616059	Soil	11	0.37	145	0.012	3	1.03	0.007	0.18	0.3	0.02	1.4	0.1	<0.05	4	<0.5	<0.2
616060	Soil	11	0.33	113	0.013	2	0.81	0.007	0.14	0.3	0.02	1.2	<0.1	<0.05	3	<0.5	<0.2
616061	Soil	12	0.35	176	0.014	4	1.26	0.018	0.18	0.3	0.03	1.6	0.1	<0.05	4	<0.5	<0.2
616062	Soil	14	0.37	162	0.015	2	1.13	0.008	0.16	0.4	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2
618051	Soil	22	0.62	201	0.021	3	1.47	0.013	0.19	0.3	0.06	2.1	0.1	0.05	5	0.7	<0.2
618052	Soil	16	0.66	185	0.025	3	1.19	0.015	0.15	0.4	0.02	1.8	0.1	<0.05	4	<0.5	<0.2
618053	Soil	25	0.90	163	0.033	2	1.39	0.012	0.10	0.3	0.02	2.9	<0.1	<0.05	5	0.6	<0.2
618054	Soil	24	2.35	213	0.021	1	1.26	0.008	0.08	0.3	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
618055	Soil	23	0.95	86	0.012	<1	1.62	0.005	0.07	0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
618056	Soil	32	0.95	110	0.029	1	1.62	0.009	0.11	0.2	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
619901	Soil	4	1.16	51	0.233	<1	1.93	0.012	0.08	0.1	0.01	3.4	<0.1	<0.05	13	<0.5	<0.2
619902	Soil	2	0.02	13	0.020	<1	0.15	0.027	0.03	<0.1	0.01	0.3	<0.1	<0.05	1	<0.5	<0.2
619903	Soil	16	1.79	126	0.177	<1	2.78	0.007	0.25	0.1	0.03	7.0	0.1	<0.05	13	<0.5	<0.2
619904	Soil	24	1.28	61	0.035	<1	2.14	0.007	0.04	<0.1	0.01	1.9	<0.1	<0.05	7	<0.5	<0.2
619905	Soil	15	0.64	71	0.069	<1	1.30	0.011	0.04	0.1	0.01	1.6	<0.1	<0.05	7	<0.5	<0.2
619906	Soil	32	1.35	68	0.035	<1	2.11	0.007	0.06	0.1	0.03	3.3	<0.1	<0.05	6	<0.5	<0.2
619907	Soil	27	1.47	40	0.008	<1	1.93	0.005	0.02	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
619908	Soil	5	0.14	33	0.019	<1	0.44	0.043	0.03	<0.1	<0.01	0.8	<0.1	<0.05	1	<0.5	<0.2
619909	Soil	63	1.85	52	0.026	<1	2.48	0.006	0.09	<0.1	0.02	3.4	<0.1	<0.05	7	<0.5	<0.2
619910	Soil	37	1.25	81	0.013	1	2.07	0.008	0.08	0.1	0.06	4.5	<0.1	<0.05	6	0.5	<0.2
619911	Soil	31	1.11	69	0.011	<1	1.88	0.009	0.07	0.2	0.04	3.5	<0.1	0.05	6	0.6	<0.2
619912	Soil	27	1.01	70	0.008	<1	1.69	0.009	0.04	<0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2



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Project: Grayling
Report Date: November 09, 2011

Page: 8 of 8 **Part** 1

CERTIFICATE OF ANALYSIS

WHI11001810.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
619913	Soil	1.5	17.4	27.1	62	<0.1	23.2	11.1	559	3.13	9.1	0.7	10.2	13	0.1	0.6	0.3	27	0.18	0.030
619914	Soil	1.1	20.1	26.4	62	<0.1	26.3	13.1	620	3.44	9.3	1.0	9.5	32	0.1	0.4	0.4	27	0.56	0.032
619915	Soil	0.9	34.5	21.6	85	0.1	28.5	13.2	513	2.95	8.0	1.1	5.2	45	0.2	0.5	0.4	22	0.96	0.068
619916	Soil	0.9	28.2	17.3	75	0.1	21.1	9.4	465	2.47	7.6	1.2	2.5	62	0.2	0.4	0.3	17	1.51	0.063
619917	Soil	0.4	14.4	8.4	35	<0.1	9.1	4.7	224	1.13	3.3	0.7	1.2	43	0.1	0.2	0.2	9	0.98	0.042
619918	Soil	1.3	37.0	23.5	74	0.1	22.8	11.1	518	2.74	10.5	1.0	3.0	51	0.2	0.6	0.3	18	1.13	0.058



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Project: Grayling
Report Date: November 09, 2011

Page: 8 of 8 **Part** 2

CERTIFICATE OF ANALYSIS

WHI11001810.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
619913	Soil	28	0.57	124	0.018	<1	1.56	0.005	0.06	0.2	0.01	3.1	<0.1	<0.05	6	<0.5	<0.2
619914	Soil	30	0.73	95	0.020	1	1.91	0.009	0.08	0.2	0.01	3.0	0.1	<0.05	6	<0.5	<0.2
619915	Soil	33	0.98	120	0.014	3	1.76	0.011	0.08	0.1	0.03	2.8	<0.1	<0.05	5	0.8	<0.2
619916	Soil	24	0.73	139	0.015	2	1.40	0.017	0.08	0.1	0.04	1.8	<0.1	0.14	4	0.9	<0.2
619917	Soil	10	0.31	70	0.017	1	0.75	0.025	0.04	<0.1	0.02	1.0	<0.1	<0.05	2	0.6	<0.2
619918	Soil	24	0.59	123	0.014	2	1.21	0.013	0.07	0.1	0.04	2.0	<0.1	0.07	4	0.6	<0.2



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Project:

Grayling

Report Date:

November 09, 2011

Page:

1 of 2

Part 1

QUALITY CONTROL REPORT

WHI11001810.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
616004	Soil	14.6	1.6	6.5	46	<0.1	1.7	1.3	2556	2.91	1.5	1.7	16.3	16	0.2	0.5	<0.1	3	0.02	0.034	118
REP 616004	QC	13.8	1.3	6.1	46	<0.1	1.5	1.3	2386	2.76	1.0	0.8	15.1	14	0.2	0.5	<0.1	3	0.02	0.034	113
616021	Soil	19.1	10.7	54.6	189	0.8	0.4	0.4	196	9.52	23.1	1.9	15.6	4	0.2	1.9	0.2	<2	<0.01	0.069	19
REP 616021	QC	19.0	10.1	53.6	183	0.7	0.6	0.4	193	9.74	23.0	1.8	15.4	5	<0.1	2.0	0.2	<2	<0.01	0.069	18
616041	Soil	7.9	6.5	16.9	103	<0.1	2.8	1.2	399	3.57	5.1	1.3	9.7	4	0.1	0.7	0.2	11	0.02	0.029	82
REP 616041	QC	7.8	7.9	15.8	98	0.1	2.8	1.2	371	3.38	4.9	4.6	9.1	4	0.1	0.7	0.2	11	0.03	0.029	80
619955	Soil	7.6	11.0	33.4	89	0.3	11.3	5.4	593	2.81	36.4	2.3	11.9	9	0.4	0.6	1.2	22	0.14	0.068	84
REP 619955	QC	7.8	10.8	33.7	89	0.3	12.0	5.2	597	2.82	36.8	2.6	11.5	9	0.5	0.6	1.2	21	0.15	0.071	85
619973	Soil	3.5	7.4	65.5	188	0.4	6.6	1.7	444	1.58	51.1	3.8	2.3	6	0.6	1.1	0.5	16	0.06	0.048	32
REP 619973	QC	3.5	7.4	65.8	192	0.5	7.1	1.9	448	1.63	52.2	3.2	2.5	6	0.6	1.1	0.5	16	0.06	0.051	32
619991	Soil	4.1	5.4	22.4	49	<0.1	7.3	3.0	354	3.07	11.3	1.1	7.3	8	0.1	0.5	0.3	26	0.07	0.026	47
REP 619991	QC	4.2	5.3	21.9	49	<0.1	7.3	3.0	349	3.11	11.1	3.2	7.5	7	<0.1	0.5	0.3	26	0.07	0.026	47
618010	Soil	2.8	14.7	13.8	52	<0.1	18.6	6.6	650	2.60	10.4	4.5	13.6	14	0.2	0.5	0.7	38	0.26	0.092	66
REP 618010	QC	2.3	14.4	13.7	50	0.1	18.8	6.6	637	2.51	10.6	2.5	13.8	13	0.2	0.6	0.8	38	0.24	0.091	63
618036	Soil	6.1	10.7	10.4	49	<0.1	13.5	4.5	1357	3.99	5.2	2.9	6.2	8	0.1	0.6	0.1	23	0.12	0.019	34
REP 618036	QC	6.5	11.2	11.1	52	<0.1	14.9	4.8	1424	4.09	5.8	1.8	6.8	9	0.2	0.7	0.2	24	0.14	0.021	41
616058	Soil	8.2	12.4	33.2	110	0.2	9.7	2.8	573	3.08	18.4	3.2	14.3	9	0.2	1.0	0.5	19	0.16	0.038	118
REP 616058	QC	7.2	11.1	30.0	98	0.2	9.0	2.4	507	2.71	16.5	1.9	13.2	8	0.2	0.9	0.4	15	0.15	0.032	102
618052	Soil	3.3	16.3	36.2	88	0.2	17.4	6.7	639	3.34	22.5	2.3	10.0	23	0.3	0.9	0.6	25	0.93	0.057	63
REP 618052	QC	3.3	16.4	36.5	90	0.2	17.6	6.7	648	3.30	22.3	2.7	10.0	24	0.3	0.8	0.6	26	0.92	0.056	63
Reference Materials																					
STD DS8	Standard	12.2	102.7	122.0	299	1.8	34.2	7.0	576	2.31	22.9	104.8	6.4	67	2.3	5.2	5.9	40	0.64	0.070	14
STD DS8	Standard	12.5	105.5	121.3	304	1.8	36.5	7.5	585	2.37	23.4	111.8	6.8	64	2.4	5.5	6.3	43	0.66	0.083	16
STD DS8	Standard	13.7	111.0	129.4	315	1.9	39.0	7.6	625	2.54	23.5	129.4	6.9	64	2.2	4.6	6.2	44	0.69	0.081	16
STD DS8	Standard	12.6	102.1	125.5	307	1.9	35.6	7.3	597	2.41	24.8	105.9	6.9	69	2.4	6.1	6.0	41	0.67	0.077	16
STD DS8	Standard	14.4	109.8	128.3	313	1.8	40.2	7.9	645	2.56	23.6	112.1	7.3	70	2.3	5.6	6.5	45	0.76	0.082	18
STD DS8	Standard	13.3	106.2	118.9	297	1.6	36.6	7.3	591	2.38	22.2	107.8	6.6	59	2.1	4.8	5.9	39	0.65	0.075	15
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6



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November 09, 2011

Page:

1 of 2

Part 2

QUALITY CONTROL REPORT

WHI11001810.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
616004	Soil	3	0.08	216	0.004	4	1.04	0.008	0.13	0.1	0.02	0.9	<0.1	<0.05	4	<0.5	<0.2
REP 616004	QC	3	0.08	204	0.003	3	1.00	0.007	0.12	0.1	0.01	0.9	<0.1	<0.05	4	<0.5	<0.2
616021	Soil	1	0.01	19	0.003	<1	0.60	0.014	0.04	0.3	0.05	0.6	<0.1	<0.05	2	<0.5	<0.2
REP 616021	QC	1	<0.01	19	0.004	<1	0.62	0.013	0.03	0.3	0.05	0.4	<0.1	<0.05	2	<0.5	<0.2
616041	Soil	6	0.10	82	0.005	<1	1.25	0.005	0.07	0.2	0.01	0.6	0.1	<0.05	5	<0.5	<0.2
REP 616041	QC	6	0.10	84	0.005	1	1.18	0.005	0.07	0.2	0.01	0.6	0.1	<0.05	5	<0.5	<0.2
619955	Soil	12	1.57	76	0.015	1	1.90	0.008	0.04	0.2	0.03	1.5	<0.1	<0.05	12	<0.5	0.7
REP 619955	QC	12	1.59	77	0.014	<1	1.94	0.008	0.04	0.3	0.02	1.6	<0.1	<0.05	12	<0.5	0.7
619973	Soil	6	0.14	60	0.005	2	0.58	0.011	0.05	0.1	0.02	0.7	<0.1	<0.05	3	<0.5	<0.2
REP 619973	QC	7	0.14	61	0.006	2	0.61	0.011	0.06	0.2	0.02	0.8	<0.1	<0.05	2	<0.5	<0.2
619991	Soil	14	0.24	142	0.028	1	0.90	0.006	0.07	0.3	0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
REP 619991	QC	14	0.24	144	0.028	<1	0.93	0.005	0.08	0.4	<0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
618010	Soil	25	0.77	146	0.066	2	1.59	0.009	0.05	0.3	0.01	2.9	<0.1	<0.05	7	<0.5	0.6
REP 618010	QC	23	0.74	139	0.057	<1	1.54	0.010	0.04	0.3	<0.01	2.8	<0.1	<0.05	7	<0.5	0.4
618036	Soil	17	0.32	102	0.019	<1	0.95	0.009	0.05	0.2	0.01	2.3	<0.1	<0.05	3	0.6	<0.2
REP 618036	QC	18	0.34	109	0.024	1	1.00	0.006	0.06	0.2	0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
616058	Soil	10	0.27	151	0.009	3	0.92	0.008	0.18	0.4	0.02	0.9	0.1	<0.05	4	<0.5	<0.2
REP 616058	QC	8	0.23	133	0.008	2	0.77	0.007	0.18	0.3	0.02	1.4	0.1	<0.05	3	<0.5	<0.2
618052	Soil	16	0.66	185	0.025	3	1.19	0.015	0.15	0.4	0.02	1.8	0.1	<0.05	4	<0.5	<0.2
REP 618052	QC	16	0.66	189	0.025	2	1.21	0.017	0.17	0.4	0.03	1.9	0.1	<0.05	4	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	108	0.59	279	0.109	3	0.98	0.156	0.45	2.8	0.18	3.9	5.3	0.07	5	4.6	4.4
STD DS8	Standard	115	0.58	278	0.121	2	0.91	0.101	0.42	3.0	0.19	3.2	5.5	0.13	5	4.8	4.7
STD DS8	Standard	121	0.64	292	0.113	2	0.99	0.102	0.44	2.8	0.20	3.1	5.6	0.15	5	5.1	5.0
STD DS8	Standard	113	0.61	286	0.123	3	0.95	0.113	0.44	3.1	0.20	3.2	5.3	0.09	5	6.2	5.2
STD DS8	Standard	128	0.64	292	0.127	3	1.01	0.115	0.44	3.1	0.20	2.8	5.5	0.18	5	5.3	5.2
STD DS8	Standard	115	0.59	257	0.110	2	0.87	0.084	0.36	2.8	0.17	2.4	5.1	0.20	5	4.8	4.8
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5



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Page:

2 of 2

Part 1

QUALITY CONTROL REPORT

WHI11001810.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Page:

2 of 2

Part 2

QUALITY CONTROL REPORT

WHI11001810.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

Appendix 4

Analytical Methods and Detection Limits

METHOD SPECIFICATIONS

GROUP 1D AND 1F – GEOCHEMICAL AQUA REGIA DIGESTION

Package Codes: 1D01 to 1D03, 1DX1 to 1DX3, 1F01 to 1F07
Sample Digestion: HNO₃-HCl acid digestion
Instrumentation Method: ICP-ES (1D), ICP-MS (1DX, 1F)
Applicability: Sediment, Soil, Non-mineralized Rock and Drill Core

Method Description:

Prepared sample is digested with a modified Aqua Regia solution of equal parts concentrated HCl, HNO₃ and DI H₂O for one hour in a heating block of hot water bath. Sample is made up to volume with dilute HCl. Sample splits of 0.5g, 15g or 30g can be analyzed.

For 1F07, Lead isotopes (Pb₂₀₄, Pb₂₀₆, Pb₂₀₇, Pb₂₀₈) are suitable for geochemical exploration of U and other commodities where gross differences in natural to radiogenic Pb ratios, is a benefit. Isotope values can be reported in both concentrations and intensities. Sample splits of 0.25g, 0.5g, 15g or 30g can be analyzed.

Element	Group 1D Detection	Group 1DX Detection	Group 1F Detection	Upper Limit
Ag	0.3 ppm	0.1 ppm	2 ppb	100 ppm
Al*	0.01%	0.01%	0.01%	10%
As	2 ppm	0.5 ppm	0.1 ppm	10000 ppm
Au	2 ppm	0.5 ppb	0.2 ppb	100 ppm
B*^	20 ppm	20 ppm	20 ppm	2000 ppm
Ba*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Bi	3 ppm	0.1 ppm	0.02 ppm	2000 ppm
Ca*	0.01%	0.01%	0.01%	40%
Cd	0.5 ppm	0.1 ppm	0.01 ppm	2000 ppm
Co	1 ppm	0.1 ppm	0.1 ppm	2000 ppm
Cr*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Cu	1 ppm	0.1 ppm	0.01 ppm	10000 ppm
Fe*	0.01%	0.01%	0.01%	40%
Ga*	-	1 ppm	0.1 ppm	1000 ppm
Hg	1 ppm	0.01 ppm	5 ppb	50 ppm
K*	0.01%	0.01%	0.01%	10%
La*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Mg*	0.01%	0.01%	0.01%	30%
Mn*	2 ppm	1 ppm	1 ppm	10000 ppm
Mo	1 ppm	0.1 ppm	0.01 ppm	2000 ppm

Element	Group 1D Detection	Group 1DX Detection	Group 1F Detection	Upper Limit
Na*	0.01%	0.001%	0.001%	5%
Ni	1 ppm	0.1 ppm	0.1 ppm	10000 ppm
P*	0.001%	0.001%	0.001%	5%
Pb	3 ppm	0.1 ppm	0.01 ppm	10000 ppm
S	0.05%	0.05%	0.02%	10%
Sb	3 ppm	0.1 ppm	0.02 ppm	2000 ppm
Sc	-	0.1 ppm	0.1 ppm	100 ppm
Se	-	0.5 ppm	0.1 ppm	100 ppm
Sr*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Te	-	0.2 ppm	0.02 ppm	1000 ppm
Th*	2 ppm	0.1 ppm	0.1 ppm	2000 ppm
Ti*	0.01%	0.001%	0.001%	5%
Tl	5 ppm	0.1 ppm	0.02 ppm	1000 ppm
U*	8 ppm	0.1 ppm	0.05 ppm	2000 ppm
V*	1 ppm	2 ppm	2 ppm	10000 ppm
W*	2 ppm	0.1 ppm	0.05 ppm	100 ppm
Zn	1 ppm	1 ppm	0.1 ppm	10000 ppm
Be*	-	-	0.1 ppm	1000 ppm
Ce*	-	-	0.1 ppm	2000 ppm
Cs*	-	-	0.02 ppm	2000 ppm
Ge*	-	-	0.1 ppm	100 ppm
Hf*	-	-	0.02 ppm	1000 ppm
In	-	-	0.02 ppm	1000 ppm
Li*	-	-	0.1 ppm	2000 ppm
Nb*	-	-	0.02 ppm	2000 ppm
Rb*	-	-	0.1 ppm	2000 ppm
Re	-	-	1 ppb	1000 ppb
Sn*	-	-	0.1 ppm	100 ppm
Ta*	-	-	0.05 ppm	2000 ppm
Y*	-	-	0.01 ppm	2000 ppm
Zr*	-	-	0.1 ppm	2000 ppm
Pt*	-	-	2 ppb	100 ppm
Pd*	-	-	10 ppb	100 ppm
Pb ₂₀₄	-	-	0.01 ppm	10000 ppm
Pb ₂₀₆	-	-	0.01 ppm	10000 ppm
Pb ₂₀₇	-	-	0.01 ppm	10000 ppm
Pb ₂₀₈	-	-	0.01 ppm	10000 ppm

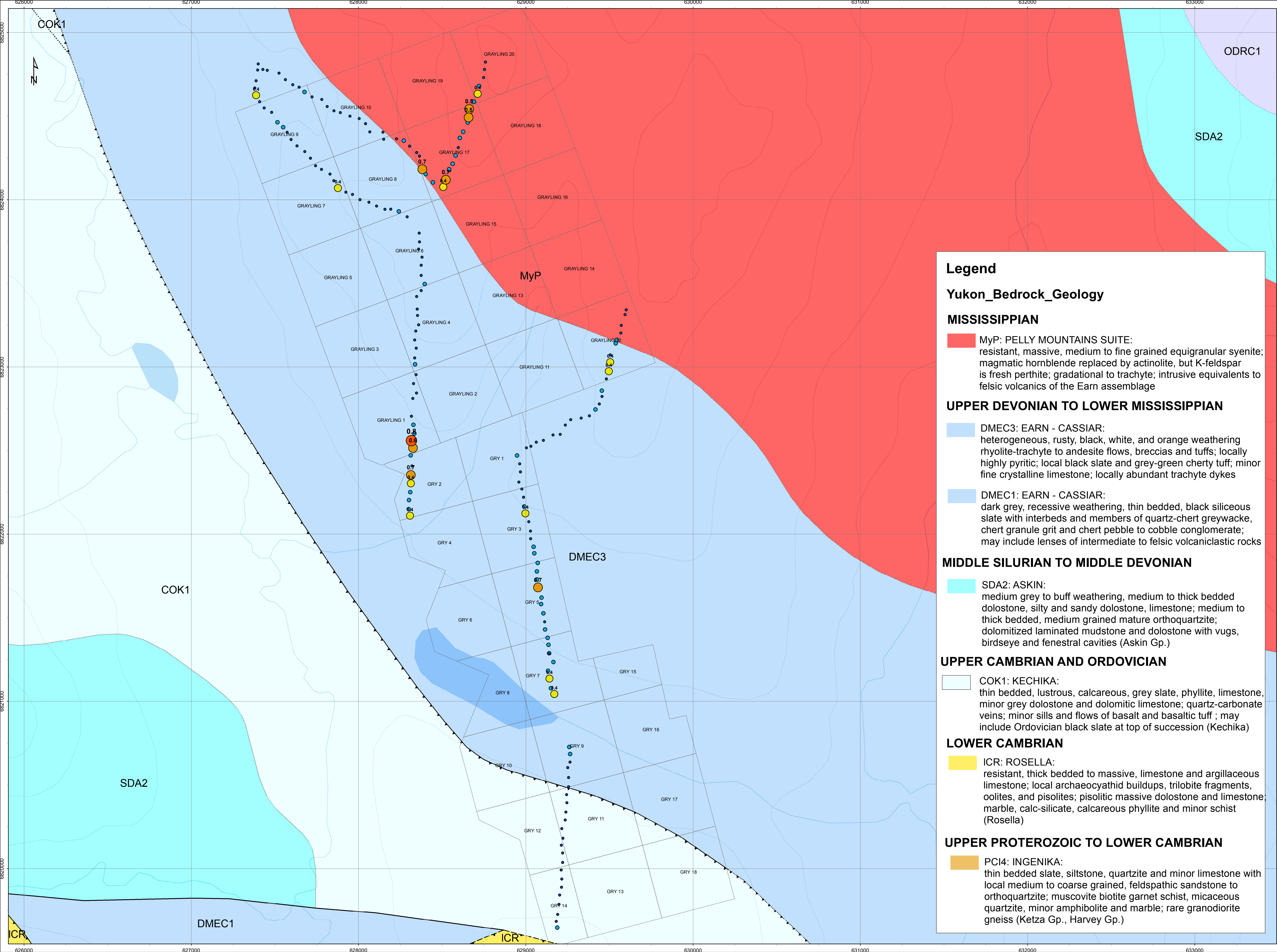
* Solubility of some elements will be limited by mineral species present.

^Detection limit = 1 ppm for 15g / 30g analysis.

Limitations:

Au solubility can be limited by refractory and graphitic samples.

Appendix 5
Soil Geochemical Plots
for Selected Elements



Legend

Yukon_Bedrock_Geology

MISSISSIPPIAN
MyP: PELLY MOUNTAINS SUITE:
resistant, massive, medium to fine grained equigranular syenite; magmatic hornblende replaced by actinolite, but K-feldspar is fresh perthite; gradational to trachyte; intrusive equivalents to felsic volcanics of the Earn assemblage

UPPER DEVONIAN TO LOWER MISSISSIPPIAN
DMEC3: EARN - CASSIAR:
heterogeneous, rusty, black, white, and orange weathering rhyolite-trachyte to andesite flows, breccias and tuffs; locally highly pyritic; local black slate and grey-green cherty tuff; minor fine crystalline limestone; locally abundant trachyte dykes
DMEC1: EARN - CASSIAR:
dark grey, recessive weathering, thin bedded, black siliceous slate with interbeds and members of quartz-chert greywacke, chert granule grit and chert pebble to cobble conglomerate; may include lenses of intermediate to felsic volcanoclastic rocks

MIDDLE SILURIAN TO MIDDLE DEVONIAN
SDA2: ASKIN:
medium grey to buff weathering, medium to thick bedded dolostone, silty and sandy dolostone, limestone; medium to thick bedded, medium grained mature orthoquartzite; dolomitized laminated mudstone and dolostone with vugs, birdseye and fenestral cavities (Askin Gp.)

UPPER CAMBRIAN AND ORDOVICIAN
COK1: KECHIKA:
thin bedded, lustrous, calcareous, grey slate, phyllite, limestone, minor grey dolostone and dolomitic limestone; quartz-carbonate veins; minor sills and flows of basalt and basaltic tuff ; may include Ordovician black slate at top of succession (Kechika)

LOWER CAMBRIAN
ICR: ROSELLA:
resistant, thick bedded to massive, limestone and argillaceous limestone; local archaeocyathid buildups, trilobite fragments, oolites, and pisolites; pisolitic massive dolostone and limestone; marble, calc-silicate, calcareous phyllite and minor schist (Rosella)

UPPER PROTEROZOIC TO LOWER CAMBRIAN
PC14: INGENIKA:
thin bedded slate, siltstone, quartzite and minor limestone with local medium to coarse grained, feldspathic sandstone to orthoquartzite; muscovite biotite garnet schist, micaceous quartzite, minor amphibolite and marble; rare granodiorite gneiss (Ketza Gp., Harvey Gp.)



Legend

Grayling_Soils

W_ppm

- 0.05 - 0.20
- 0.21 - 0.30
- 0.31 - 0.35
- 0.36 - 0.40
- 0.41 - 0.70
- 0.71 - 0.80

Yukon_Bedrock_Faults

**DEXTRAL/SINISTRAL/
NORMAL/REVERSE/
UNDEFINED**

- defined
- approximate
- assumed

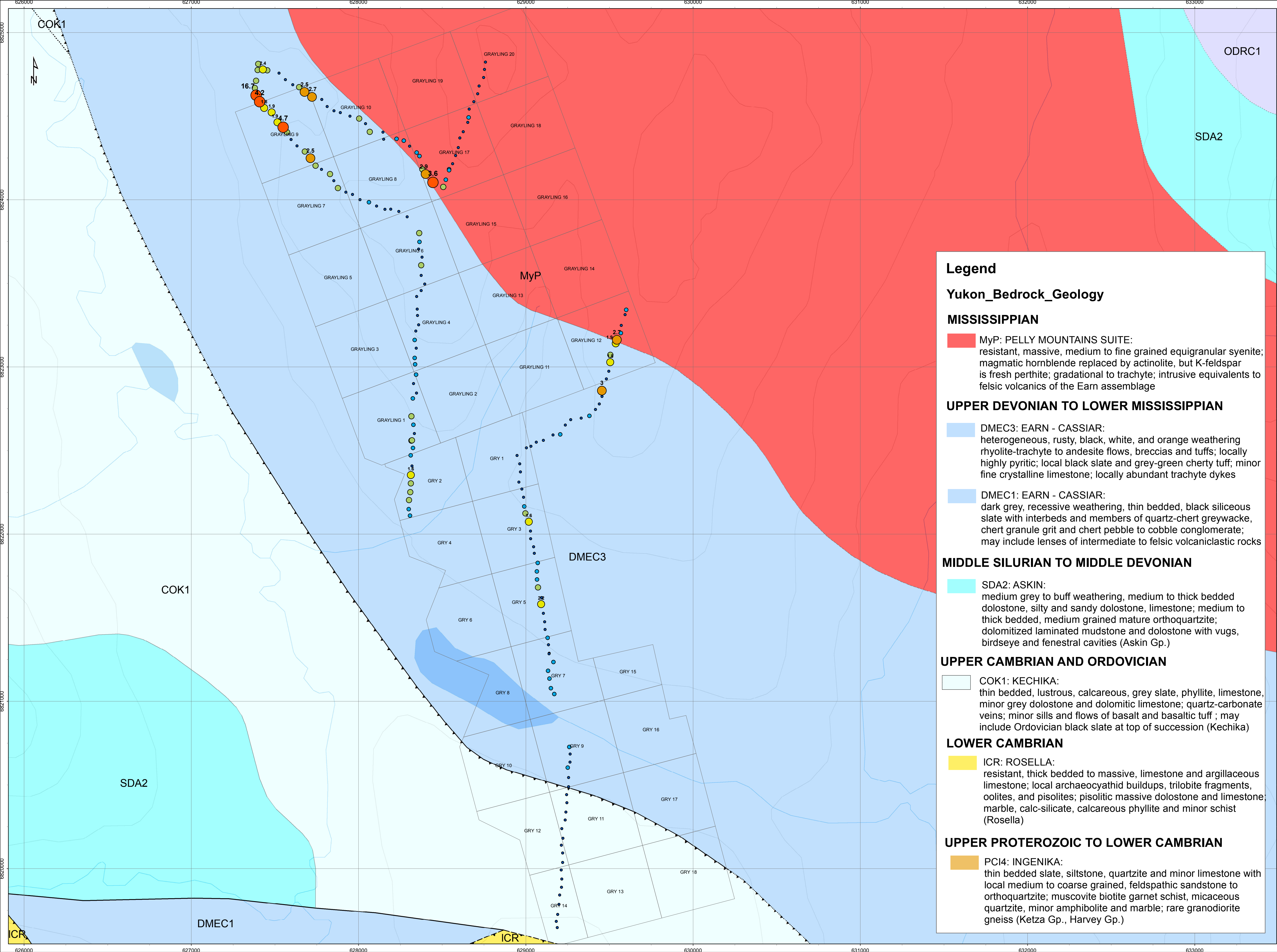
**THRUST OVERTURNED/
UPRIGHT**

- defined
- approximate
- assumed
- extrapolated

GRAYLING Property

2001 Soils
W Anomaly

Scale:	1:10,000	Map ID:	--
Draw Date:	2012/06/05	Rev. Date:	--
Version:	1	Figure:	Appendix 5 - 10
Author:	K. Fecova	Office:	Vancouver
Location:	64 km S of Ross River, Yukon Territory		
Projection:	NAD 1983 UTM Zone 8N		
Filename:	GRA20120605_W_Soil_Map		



Legend

Yukon_Bedrock_Geology

MISSISSIPPIAN

MyP: PELLY MOUNTAINS SUITE:
resistant, massive, medium to fine grained equigranular syenite; magmatic hornblende replaced by actinolite, but K-feldspar is fresh perthite; gradational to trachyte; intrusive equivalents to felsic volcanics of the Earn assemblage

UPPER DEVONIAN TO LOWER MISSISSIPPIAN

DMEC3: EARN - CASSIAR:
heterogeneous, rusty, black, white, and orange weathering rhyolite-trachyte to andesite flows, breccias and tuffs; locally highly pyritic; local black slate and grey-green cherty tuff; minor fine crystalline limestone; locally abundant trachyte dykes

DMEC1: EARN - CASSIAR:
dark grey, recessive weathering, thin bedded, black siliceous slate with interbeds and members of quartz-chert greywacke, chert granule grit and chert pebble to cobble conglomerate; may include lenses of intermediate to felsic volcanoclastic rocks

MIDDLE SILURIAN TO MIDDLE DEVONIAN

SDA2: ASKIN:
medium grey to buff weathering, medium to thick bedded dolostone, silty and sandy dolostone, limestone; medium to thick bedded, medium grained mature orthoquartzite; dolomitized laminated mudstone and dolostone with vugs, birdseye and fenestral cavities (Askin Gp.)

UPPER CAMBRIAN AND ORDOVICIAN

COK1: KECHIKA:
thin bedded, lustrous, calcareous, grey slate, phyllite, limestone, minor grey dolostone and dolomitic limestone; quartz-carbonate veins; minor sills and flows of basalt and basaltic tuff ; may include Ordovician black slate at top of succession (Kechika)

LOWER CAMBRIAN

ICR: ROSELLA:
resistant, thick bedded to massive, limestone and argillaceous limestone; local archaeocyathid buildups, trilobite fragments, oolites, and pisolites; pisolitic massive dolostone and limestone; marble, calc-silicate, calcareous phyllite and minor schist (Rosella)

UPPER PROTEROZOIC TO LOWER CAMBRIAN

PC14: INGENIKA:
thin bedded slate, siltstone, quartzite and minor limestone with local medium to coarse grained, feldspathic sandstone to orthoquartzite; muscovite biotite garnet schist, micaceous quartzite, minor amphibolite and marble; rare granodiorite gneiss (Ketzia Gp., Harvey Gp.)

Legend

Grayling_Soils

Sb_ppm

0.05 - 0.60

0.61 - 0.90

0.91 - 1.55

1.56 - 2.48

2.49 - 3.18

3.19 - 16.70

Yukon_Bedrock_Faults

**DEXTRAL/SINISTRAL/
NORMAL/REVERSE/
UNDEFINED**

defined

approximate

assumed

**THRUST OVERTURNED/
UPRIGHT**

defined

approximate

assumed

extrapolated

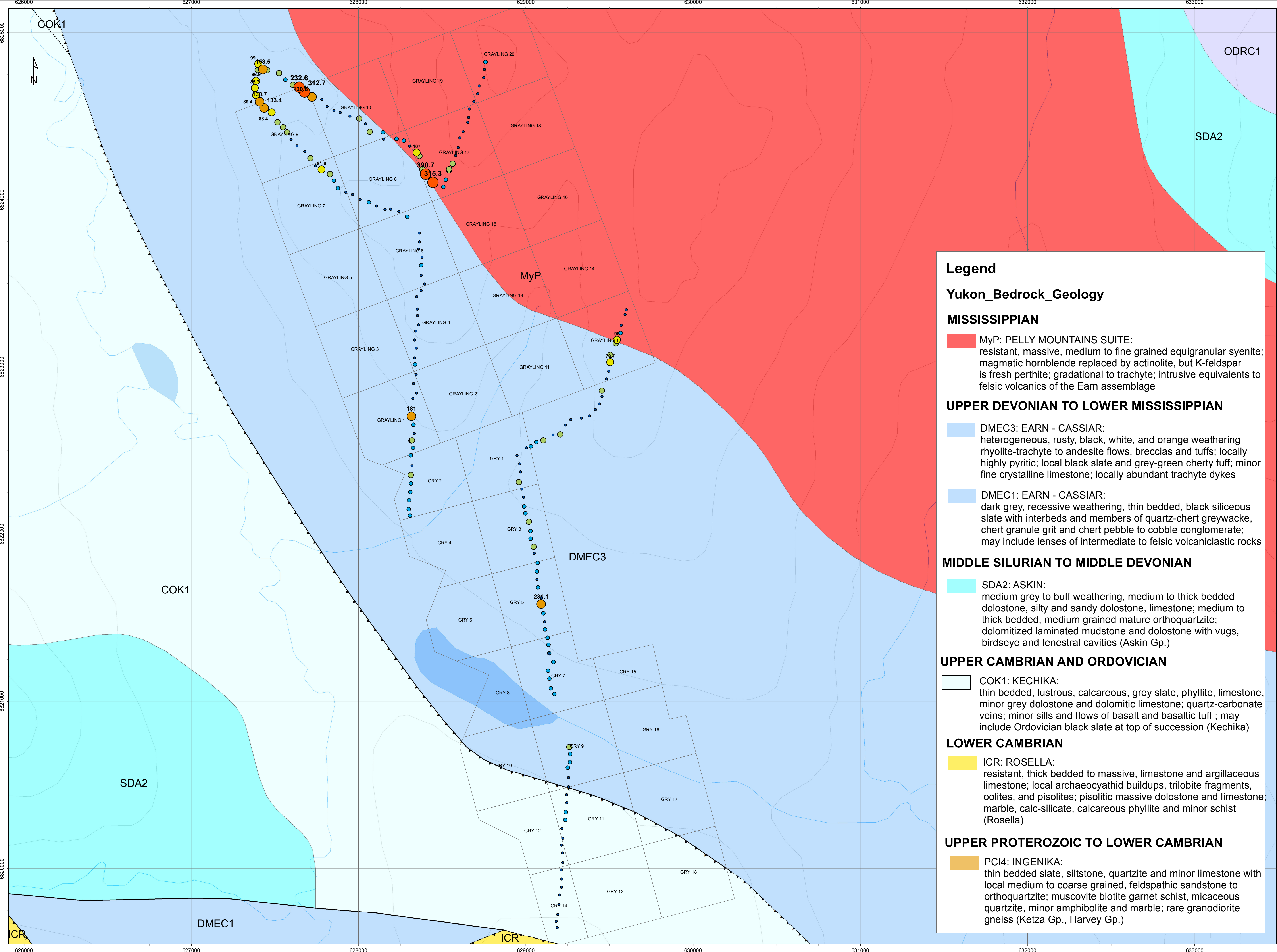
GRAYLING Property

2001 Soils
Sb Anomaly

025050750

Meters

Scale:	1:10,000	Map ID:	--
Draw Date:	2012/06/05	Rev. Date:	--
Version:	1	Figure:	Appendix 5 - 9
Author:	K. Fecova	Office:	Vancouver
Location:	64 km S of Ross River, Yukon Territory		
Projection:	NAD 1983 UTM Zone 8N		
Filename:	GRA20120605_Sb_Soil_Map		



Legend

Yukon_Bedrock_Geology

MISSISSIPPIAN

MyP: PELLY MOUNTAINS SUITE:
resistant, massive, medium to fine grained equigranular syenite;
magmatic hornblende replaced by actinolite, but K-feldspar
is fresh perthite; gradational to trachyte; intrusive equivalents to
felsic volcanics of the Earn assemblage

DMEC3: EARN - CASSIAR:
heterogeneous, rusty, black, white, and orange weathering
rhyolite-trachyte to andesite flows, breccias and tuffs; locally
highly pyritic; local black slate and grey-green cherty tuff; minor
fine crystalline limestone; locally abundant trachyte dykes

DMEC1: EARN - CASSIAR:
dark grey, recessive weathering, thin bedded, black siliceous
slate with interbeds and members of quartz-chert greywacke,
chert granule grit and chert pebble to cobble conglomerate;
may include lenses of intermediate to felsic volcanoclastic rocks

UPPER DEVONIAN TO LOWER MISSISSIPPIAN

SDA2: ASKIN:
medium grey to buff weathering, medium to thick bedded
dolostone, silty and sandy dolostone, limestone; medium to
thick bedded, medium grained mature orthoquartzite;
dolomitized laminated mudstone and dolostone with vugs,
birdseye and fenestral cavities (Askin Gp.)

UPPER CAMBRIAN AND ORDOVICIAN

COK1: KECHIKA:
thin bedded, lustrous, calcareous, grey slate, phyllite, limestone,
minor grey dolostone and dolomitic limestone; quartz-carbonate
veins; minor sills and flows of basalt and basaltic tuff ; may
include Ordovician black slate at top of succession (Kechika)

LOWER CAMBRIAN

ICR: ROSELLA:
resistant, thick bedded to massive, limestone and argillaceous
limestone; local archaeocyathid buildups, trilobite fragments,
oolites, and pisolites; pisolitic massive dolostone and limestone;
marble, calc-silicate, calcareous phyllite and minor schist
(Rosella)

UPPER PROTEROZOIC TO LOWER CAMBRIAN

PC14: INGENIKA:
thin bedded slate, siltstone, quartzite and minor limestone with
local medium to coarse grained, feldspathic sandstone to
orthoquartzite; muscovite biotite garnet schist, micaceous
quartzite, minor amphibolite and marble; rare granodiorite
gneiss (Ketzka Gp., Harvey Gp.)



Legend

Grayling_Soils

Pb_ppm

- 1.2 - 25.7
- 25.8 - 36.7
- 36.8 - 74.1
- 74.2 - 117.4
- 117.5 - 231.6
- 231.7 - 390.7

Yukon_Bedrock_Faults

**DEXTRAL/SINISTRAL/
NORMAL/REVERSE/
UNDEFINED**

- defined
- approximate
- assumed

**THRUST OVERTURNED/
UPRIGHT**

- defined
- approximate
- assumed
- extrapolated

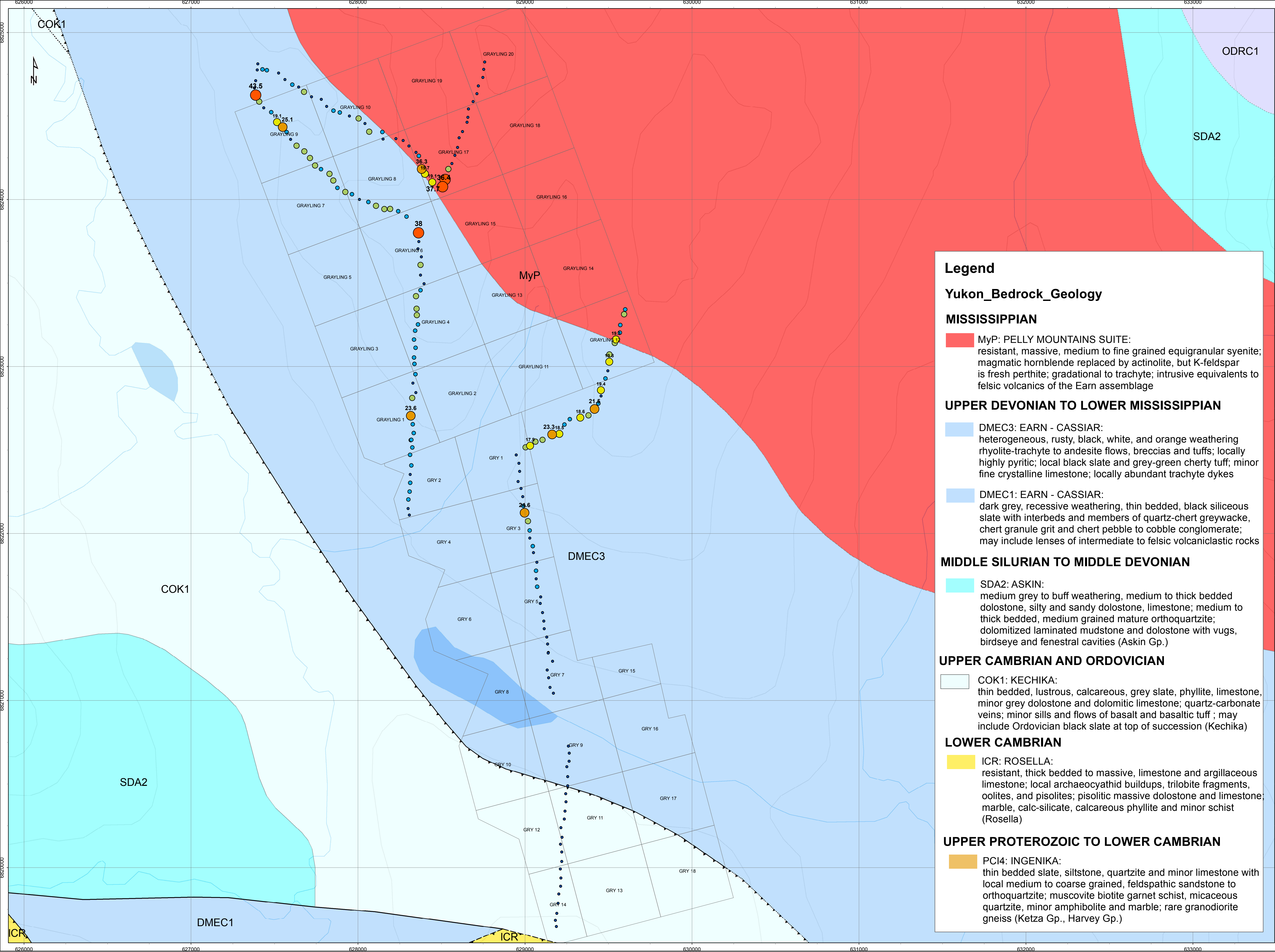
GRAYLING Property

2001 Soils
Pb Anomaly

0250500750

Meters

Scale:	1:10,000	Map ID:	--
Draw Date:	2012/06/05	Rev. Date:	--
Version:	1	Figure:	Appendix 5 - 8
Author:	K. Fecova	Office:	Vancouver
Location:	64 km S of Ross River, Yukon Territory		
Projection:	NAD 1983 UTM Zone 8N		
Filename:	GRA20120605_Pb_Soil_Map		



Legend

Grayling_Soils

Mo_ppm

- 0.1 - 5.9
- 6.0 - 10.5
- 10.6 - 17.8
- 17.9 - 21.1
- 21.2 - 36.3
- 36.4 - 43.5

Yukon_Bedrock_Faults

DEXTRAL/SINISTRAL/
NORMAL/REVERSE/
UNDEFINED

- defined
- - - - - approximate
- assumed

THRUST OVERTURNED/
UPRIGHT

- ▲▲▲ defined
- ▲-▲- approximate
-▲..... assumed
- ▲-▲-▲-▲- extrapolated

Legend

Yukon_Bedrock_Geology

MISSISSIPPIAN

MyP: PELLY MOUNTAINS SUITE:
resistant, massive, medium to fine grained equigranular syenite;
magmatic hornblende replaced by actinolite, but K-feldspar
is fresh perthite; gradational to trachyte; intrusive equivalents to
felsic volcanics of the Earn assemblage

UPPER DEVONIAN TO LOWER MISSISSIPPIAN

DMEC3: EARN - CASSIAR:
heterogeneous, rusty, black, white, and orange weathering
rhyolite-trachyte to andesite flows, breccias and tuffs; locally
highly pyritic; local black slate and grey-green cherty tuff; minor
fine crystalline limestone; locally abundant trachyte dykes

DMEC1: EARN - CASSIAR:
dark grey, recessive weathering, thin bedded, black siliceous
slate with interbeds and members of quartz-chert greywacke,
chert granule grit and chert pebble to cobble conglomerate;
may include lenses of intermediate to felsic volcanoclastic rocks

MIDDLE SILURIAN TO MIDDLE DEVONIAN

SDA2: ASKIN:
medium grey to buff weathering, medium to thick bedded
dolostone, silty and sandy dolostone, limestone; medium to
thick bedded, medium grained mature orthoquartzite;
dolomitized laminated mudstone and dolostone with vugs,
birdseye and fenestral cavities (Askin Gp.)

UPPER CAMBRIAN AND ORDOVICIAN

COK1: KECHIKA:
thin bedded, lustrous, calcareous, grey slate, phyllite, limestone,
minor grey dolostone and dolomitic limestone; quartz-carbonate
veins; minor sills and flows of basalt and basaltic tuff ; may
include Ordovician black slate at top of succession (Kechika)

LOWER CAMBRIAN

ICR: ROSELLA:
resistant, thick bedded to massive, limestone and argillaceous
limestone; local archaeocyathid buildups, trilobite fragments,
oolites, and pisolites; pisolitic massive dolostone and limestone;
marble, calc-silicate, calcareous phyllite and minor schist
(Rosella)

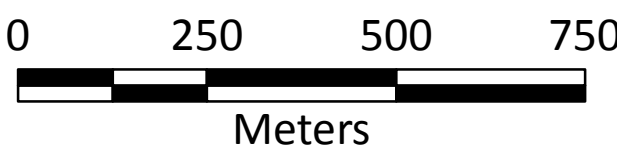
UPPER PROTEROZOIC TO LOWER CAMBRIAN

PC14: INGENIKA:
thin bedded slate, siltstone, quartzite and minor limestone with
local medium to coarse grained, feldspathic sandstone to
orthoquartzite; muscovite biotite garnet schist, micaceous
quartzite, minor amphibolite and marble; rare granodiorite
gneiss (Ketzia Gp., Harvey Gp.)

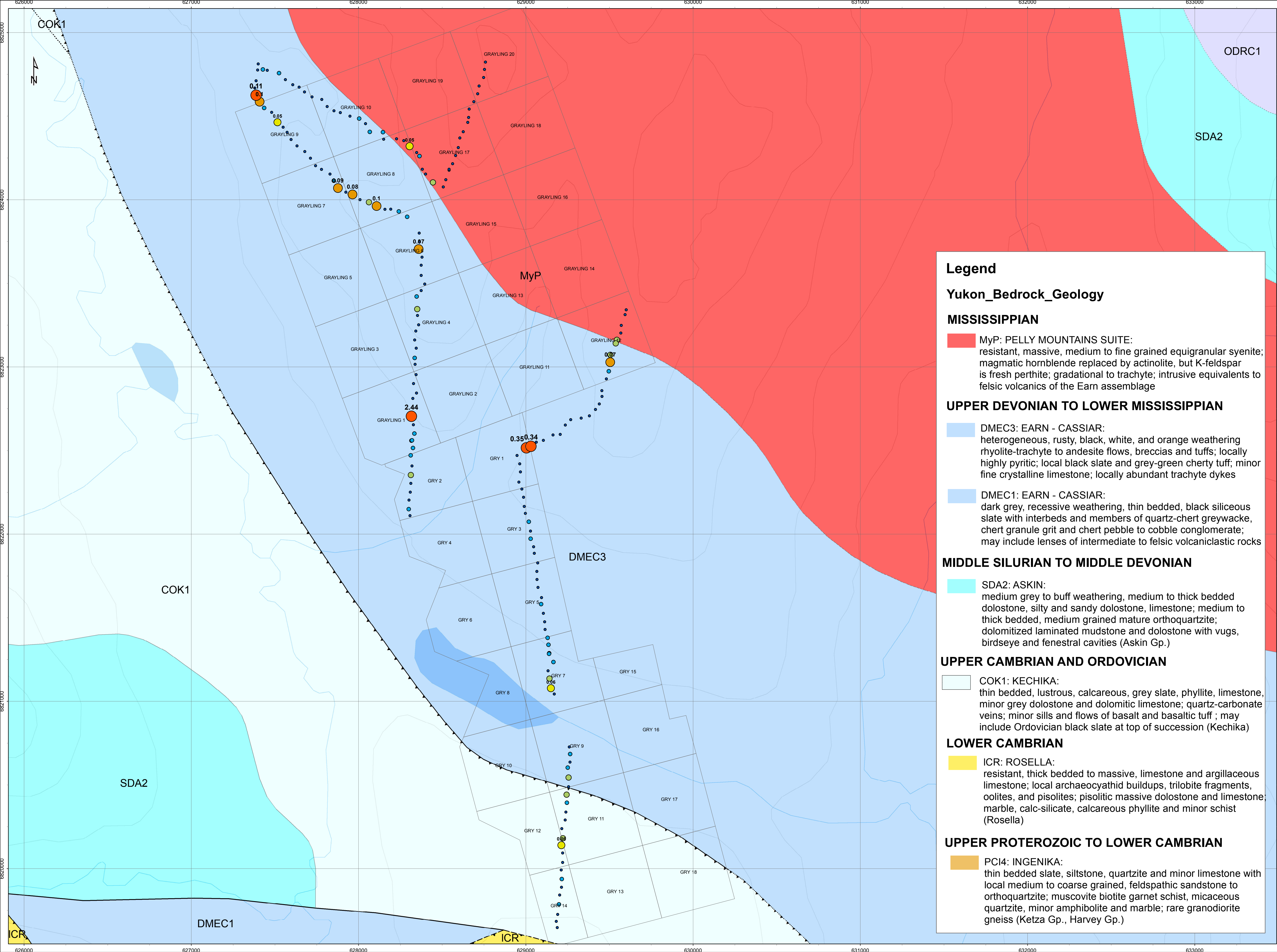


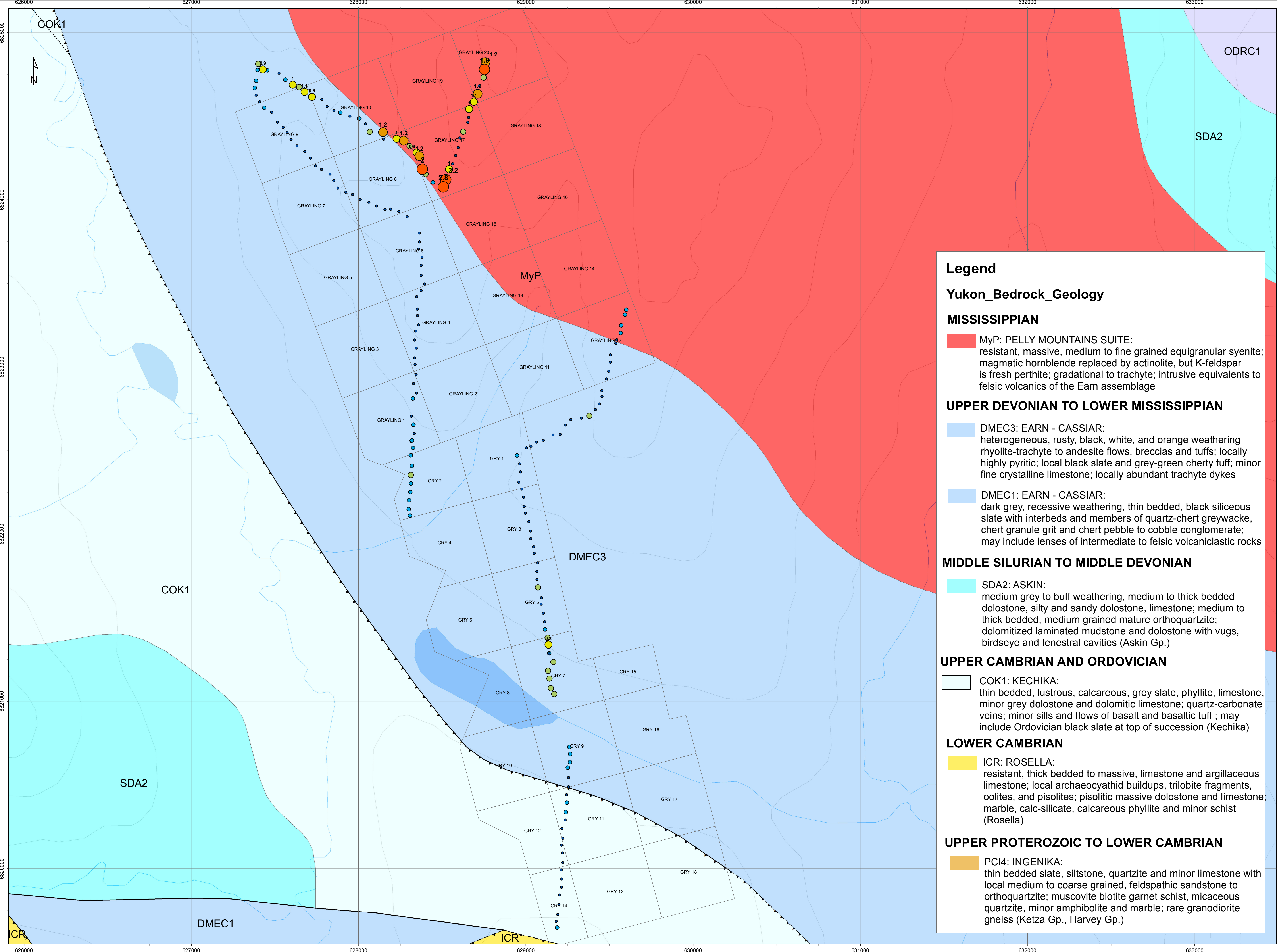
GRAYLING Property

2001 Soils
Mo Anomaly



Scale:	1:10,000	Map ID:	--
Draw Date:	2012/06/05	Rev. Date:	--
Version:	1	Figure:	Appendix 5 - 7
Author:	K. Fecova	Office:	Vancouver
Location:	64 km S of Ross River, Yukon Territory		
Projection:	NAD 1983 UTM Zone 8N		
Filename:	GRA20120605_Mo_Soil_Map		





Legend

Grayling_Soils

Bi_ppm

- 0.05 - 0.30
- 0.31 - 0.50
- 0.51 - 0.75
- 0.76 - 1.10
- 1.11 - 1.41
- 1.42 - 3.20

Yukon_Bedrock_Faults

DEXTRAL/SINISTRAL/
NORMAL/REVERSE/
UNDEFINED

- defined
- approximate
- assumed

THRUST OVERTURNED/
UPRIGHT

- defined
- approximate
- assumed
- extrapolated

Legend

Yukon_Bedrock_Geology

MISSISSIPPIAN

MyP: PELLY MOUNTAINS SUITE:
resistant, massive, medium to fine grained equigranular syenite;
magmatic hornblende replaced by actinolite, but K-feldspar
is fresh perthite; gradational to trachyte; intrusive equivalents to
felsic volcanics of the Earn assemblage

UPPER DEVONIAN TO LOWER MISSISSIPPIAN

- DMEC3: EARN - CASSIAR:
heterogeneous, rusty, black, white, and orange weathering
rhyolite-trachyte to andesite flows, breccias and tuffs; locally
highly pyritic; local black slate and grey-green cherty tuff; minor
fine crystalline limestone; locally abundant trachyte dykes
- DMEC1: EARN - CASSIAR:
dark grey, recessive weathering, thin bedded, black siliceous
slate with interbeds and members of quartz-chert greywacke,
chert granule grit and chert pebble to cobble conglomerate;
may include lenses of intermediate to felsic volcanoclastic rocks

MIDDLE SILURIAN TO MIDDLE DEVONIAN

- SDA2: ASKIN:
medium grey to buff weathering, medium to thick bedded
dolostone, silty and sandy dolostone, limestone; medium to
thick bedded, medium grained mature orthoquartzite;
dolomitized laminated mudstone and dolostone with vugs,
birdseye and fenestral cavities (Askin Gp.)

UPPER CAMBRIAN AND ORDOVICIAN

- COK1: KECHIKA:
thin bedded, lustrous, calcareous, grey slate, phyllite, limestone,
minor grey dolostone and dolomitic limestone; quartz-carbonate
veins; minor sills and flows of basalt and basaltic tuff ; may
include Ordovician black slate at top of succession (Kechika)

LOWER CAMBRIAN

- ICR: ROSELLA:
resistant, thick bedded to massive, limestone and argillaceous
limestone; local archaeocyathid buildups, trilobite fragments,
oolites, and pisolites; pisolitic massive dolostone and limestone;
marble, calc-silicate, calcareous phyllite and minor schist
(Rosella)

UPPER PROTEROZOIC TO LOWER CAMBRIAN

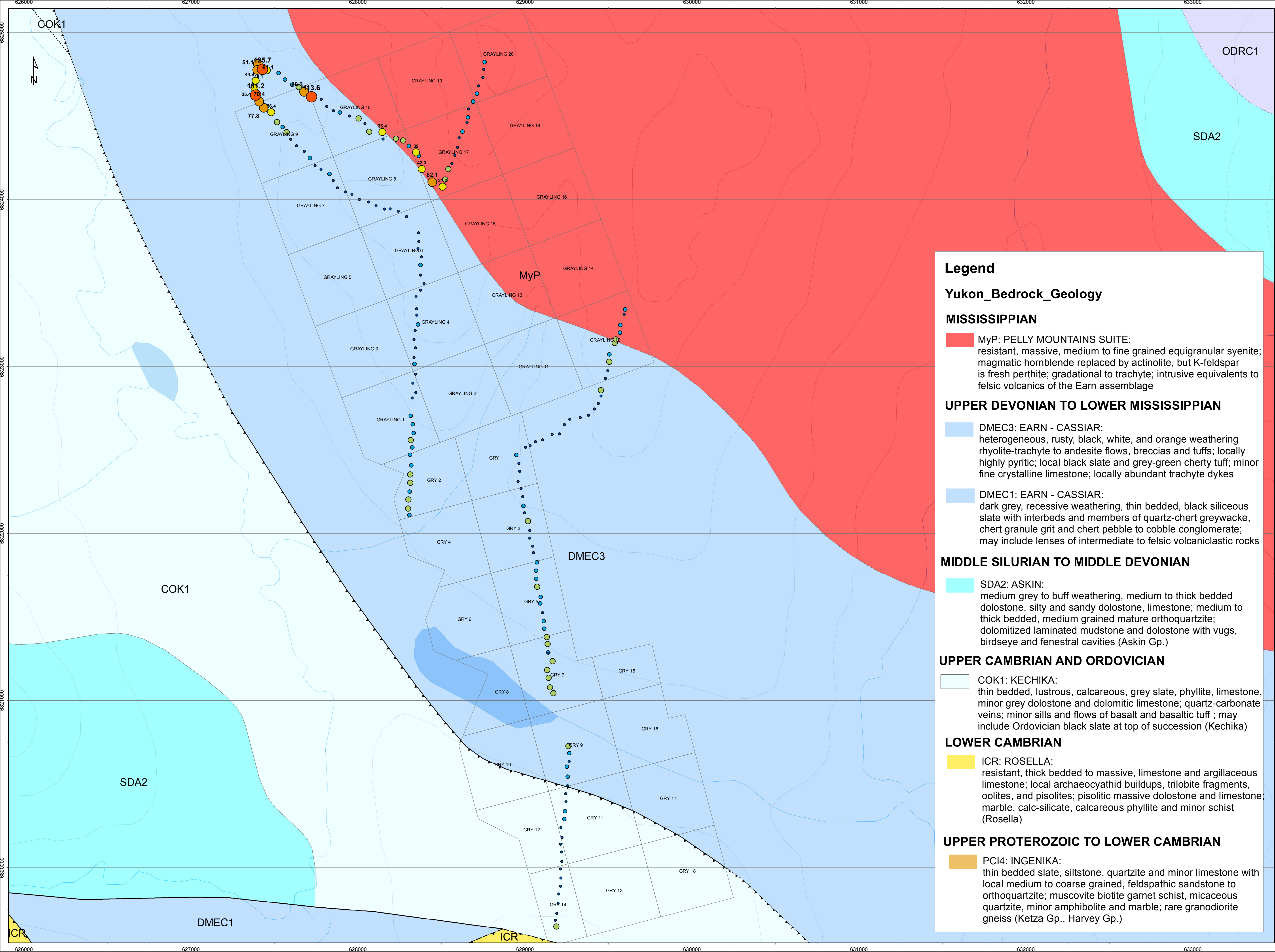
- PC14: INGENIKA:
thin bedded slate, siltstone, quartzite and minor limestone with
local medium to coarse grained, feldspathic sandstone to
orthoquartzite; muscovite biotite garnet schist, micaceous
quartzite, minor amphibolite and marble; rare granodiorite
gneiss (Ketza Gp., Harvey Gp.)

GRAYLING Property

2001 Soils
Bi Anomaly

0 250 500 750
Meters

Scale:	1:10,000	Map ID:	--
Draw Date:	2012/06/05	Rev. Date:	--
Version:	1	Figure:	Appendix 5 - 4
Author:	K. Fecova	Office:	Vancouver
Location:	64 km S of Ross River, Yukon Territory		
Projection:	NAD 1983 UTM Zone 8N		
Filename:	GRA20120605_Bi_Soil_Map		



Legend

Grayling_Soils

As_ppm

- 0.25 - 8.65
- 8.66 - 18.28
- 18.29 - 28.90
- 28.91 - 49.85
- 49.86 - 95.89
- 95.90 - 447.60

Yukon_Bedrock_Faults

**DEXTRAL/SINISTRAL/
NORMAL/REVERSE/
UNDEFINED**

- defined
- approximate
- assumed

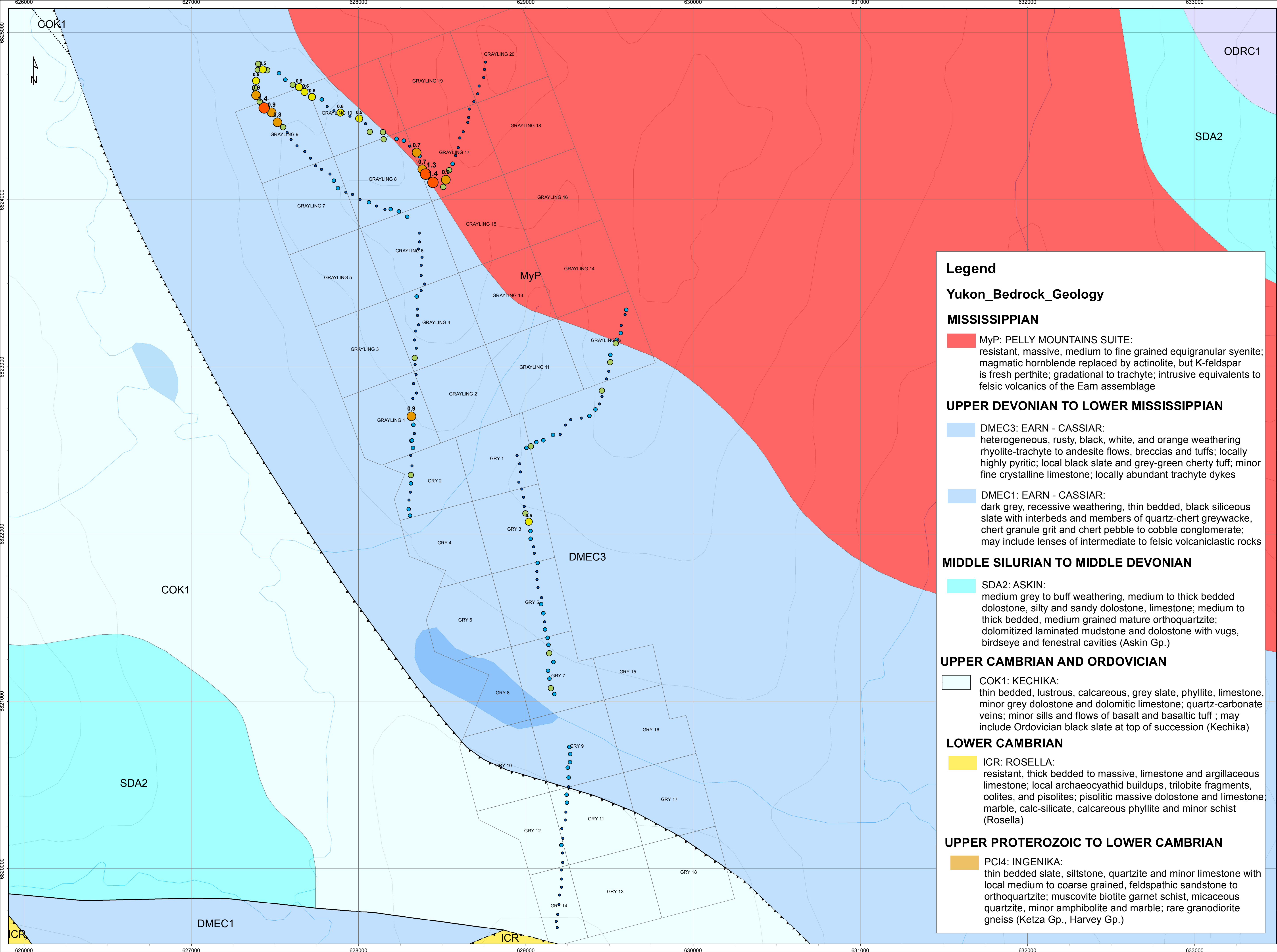
**THRUST OVERTURNED/
UPRIGHT**

- defined
- approximate
- assumed
- extrapolated

GRAYLING Property

2001 Soils
As Anomaly

Scale:	1:10,000	Map ID:	--
Draw Date:	2012/06/05	Rev. Date:	--
Version:	1	Figure:	Appendix 5 - 3
Author:	K. Fecova	Office:	Vancouver
Location:	64 km S of Ross River, Yukon Territory		
Projection:	NAD 1983 UTM Zone 8N		
Filename:	GRA20120605_As_Soil_Map		



Legend

Yukon_Bedrock_Geology

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(Rosella)

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PC14: INGENIKA:
thin bedded slate, siltstone, quartzite and minor limestone with
local medium to coarse grained, feldspathic sandstone to
orthoquartzite; muscovite biotite garnet schist, micaceous
quartzite, minor amphibolite and marble; rare granodiorite
gneiss (Ketzka Gp., Harvey Gp.)



Legend

Grayling_Soils

Ag_ppm

- 0 - 0.05
- 0.06 - 0.20
- 0.21 - 0.40
- 0.41 - 0.68
- 0.69 - 0.90
- 0.91 - 1.40

Yukon_Bedrock_Faults

**DEXTRAL/SINISTRAL/
NORMAL/REVERSE/
UNDEFINED**

- defined
- approximate
- assumed

**THRUST OVERTURNED/
UPRIGHT**

- defined
- approximate
- assumed
- extrapolated

GRAYLING Property
2001 Soils
Ag Anomaly

Scale:	1:10,000	Map ID:	--
Draw Date:	2012/06/05	Rev. Date:	--
Version:	1	Figure:	Appendix 5 - 2
Author:	K. Fecova	Office:	Vancouver
Location:	64 km S of Ross River, Yukon Territory		
Projection:	NAD 1983 UTM Zone 8N		
Filename:	GRA20120605_Ag_Soil_Map		