1997 GEOLOGICAL,GEOCHEMICAL AND TRENCHING REPORT ON THE SPROGGE 1-74 AND JUSTIN 1-25 CLAIMS

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Watson Lake Mining District
N.T.S. 105 H/09

Latitude: 61°42' North
Longitude: 128°10' West

Owner: Battle Mountain Canada Ltd.

Author: Carl M. Schulze

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This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 35,700.00.

M. Burke

for Regional Manager, Exploration and Geological Services for Commissioner of Yukon Territory.

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SUMMARY

The Sprogge Project consists of 259 contiguous quartz mining claims located in southeast Yukon 175 kilometres north of Watson Lake. The claims cover a 55 square kilometre area measuring roughly 13 x 4 kilometres covering a district scale camp hosting at least eleven significant mineralized zones. The project is a joint venture project between Viceroy International Exploration (VIE) and Battle mountain Gold (BMG) whereby VIE can earn a 60% interest by spending $500,000 Cdn in exploration expenditures over four years. The property has been advanced to the drilling stage.

Regional geology consists of Late Precambrian to Early Cambrian Hyland Group sedimentary stratigraphy, which forms the basement of the Selwyn Basin, intruded by Tombstone Suite Mid- Cretaceous quartz monzonite stocks. This suite controls much of the regional economic mineralization, including large skarn hosted tungsten deposits. On the property, the Hyland Group stratigraphy consists of a NW-SE trending weakly NE dipping package of Yusezyu Formation thick coarse clastic sedimentary units interspaced by thick units of fine grained, thin bedded phyllite, shale and argillite, as well as units of limestone to silty limestone.

The property is bounded to the north and south by two major NW-SE trending transcurrent faults, part of a right lateral transcurrent fault system. The northern fault separates Hyland Group stratigraphy from younger Rabbitkettle Formation stratigraphy. A set of NNW trending extensional faulting occurs between these major faults. A conjugate set of NE and E trending shear fabric was emplaced after the transcurrent faulting. These events created dilational zones which provided conduits for fluid movement as well as depositional environments for gold mineralization

Three major mineralogical settings have been identified: 1) fracture controlled quartz-arsenopyrite mineralization, including dike hosted mineralization; 2) skarn mineralization within the limestone members; and 3) coarse clastic sediment- hosted mineralization. Significant grades from fracture controlled mineralization include: 6.9 gpt Au/12.0 metres (Meadows Zone), 9.55 gpt Au/4.0 metres (Swagman Zone), and values to 34.8 gpt Au from abundant grab and localized chip sampling. Coarse clastic sediment hosted mineralization, with some veining, has returned values of 26.4 gpt Au/1.5 metres and 4.24 gpt Au/4.5 metres (Confluence Zone), and up to 6.7 gpt Au from grab sampling. Trenching of skarn mineralization has returned 2.38 gpt Au/22.5 metres (Main Skarn) and 1.6 gpt Au/1.5 metres (Kangas Zone). All are believed to have resulted from one major, widespread and long-lived hydrothermal mineralising event, related to fluid remobilization and dike emplacement associated from emplacement of the Tombstone Suite Tuna Creek Stock. A broad mineral and alteration zonation occurs from NW to SE, with a change from base metal enriched zones to sulphide poor chalcedonic mineralization. Base metal enrichment also occurs along NNW trending fault zones across the property.

An aggressive exploration program is recommended for 1998 with a budget of US $300,000. This will consist of drill testing of the Meadows and Ridge zones within the Sprogge Claims, and the Main Skarn, Confluence Zone and possibly the Kangas Zone within the Justin Claims. Detailed exploration, including trenching will be done across other parts of the Confluence, Neebing, Warren, Kangas, Sheila, Swagman, Matilda and Hodder Hill zones. Grid establishment and surface exploration, including soil sampling, will be done across much of the property to test several of these zones, as well as poorly explored areas.

CHAPTER 1: INTRODUCTION

1.1 Introductory Statement

The Sprogge Project consists of 259 contiguous quartz mining claims (Sprogge, Justin, Snow Claims) covering a 55 square kilometre area measuring 13 x 4 kilometres within NTS Sheet 105H/9, in the Watson Lake Mining District (Figure 1).

The area of the original Sun Property was explored intermittently from 1964 until 1990, primarily in the vicinity of the "Main Skarn", a low grade copper-gold skarn occurrence. In October, 1995, Hemlo Gold Mines Inc. (Hemlo) optioned the JUSTIN 1-4 claims, covering the lapsed SUN claims covering the Main Skarn, from Mr. Bernard Kreft, and added the JUSTIN 1-25 claims. In 1996 Hemlo conducted regional exploration and discovered significant mineralization along a NW-SE trending stratigraphic package NW of the JUSTIN, resulting in the staking of the SPROGGE 1-74 claims. In 1997, VIE, acting as operator, entered into a joint venture agreement with BMG concerning the JUSTIN and SPROGGE Properties, and staked the SPROGGE 75-158 claims, and the SNOW 26-101 claims covering intermediate territory. VIE can earn a 60% interest by spending Cdn $500,000 in exploration expenditures over four years.

The 1997 exploration program delineated the local stratigraphic package, structural control and settings of numerous mineralized occurrences underlying the property, and identified several mineralized zones. This report is a compilation of results of the 1995 and 1996 Hemlo/BMG and 1997 VIE exploration programs. It also summarises a geologic model of mineralization, including a detailed description of the relationships of structural settings, regional geology and controls of mineralization and puts forward recommendations for future work in 1998.

1.2 Location and Access

The Sprogge Project is located roughly 175 kilometres north of Watson Lake, Yukon Territory, centred at 61 ° 42' North latitude, 128 ° 10' west longitude on NTS Map Sheet 105H/9. The Nahanni Range Road, originally built to service the now inactive Cantung tungsten mine, passes N-S roughly 3 kilometres west of the project. This road is in good seasonal driving condition to Kilometre 135, just north of Piggott Creek, and becomes impassable beyond Tuna Creek, NW of the property (Figure 2).

Access is currently by helicopter from Watson Lake, with refuelling capabilities both at the Hyland Strip (located roughly at Km. 120), and at a gravel pit just north of Piggott Creek. Two exploration camps have been established near proposed drill targets roughly 5 and 13 kilometres respectively from the nearest point on road, and 7.5 and 11 kilometres respectively from the Piggott Creek gravel pit.

1.3 Physiography and Vegetation

The property is covered by fairly rugged glaciated terrain typical of the Selwyn Mountains with elevations ranging from 1200 to 2000 meters. A prominent ridge underlies most of the property, with steep south facing slopes and somewhat more moderate north facing slopes. Deep WNW trending glacial valleys extend along north and south property boundaries, and several N-S trending valleys extend across the property.

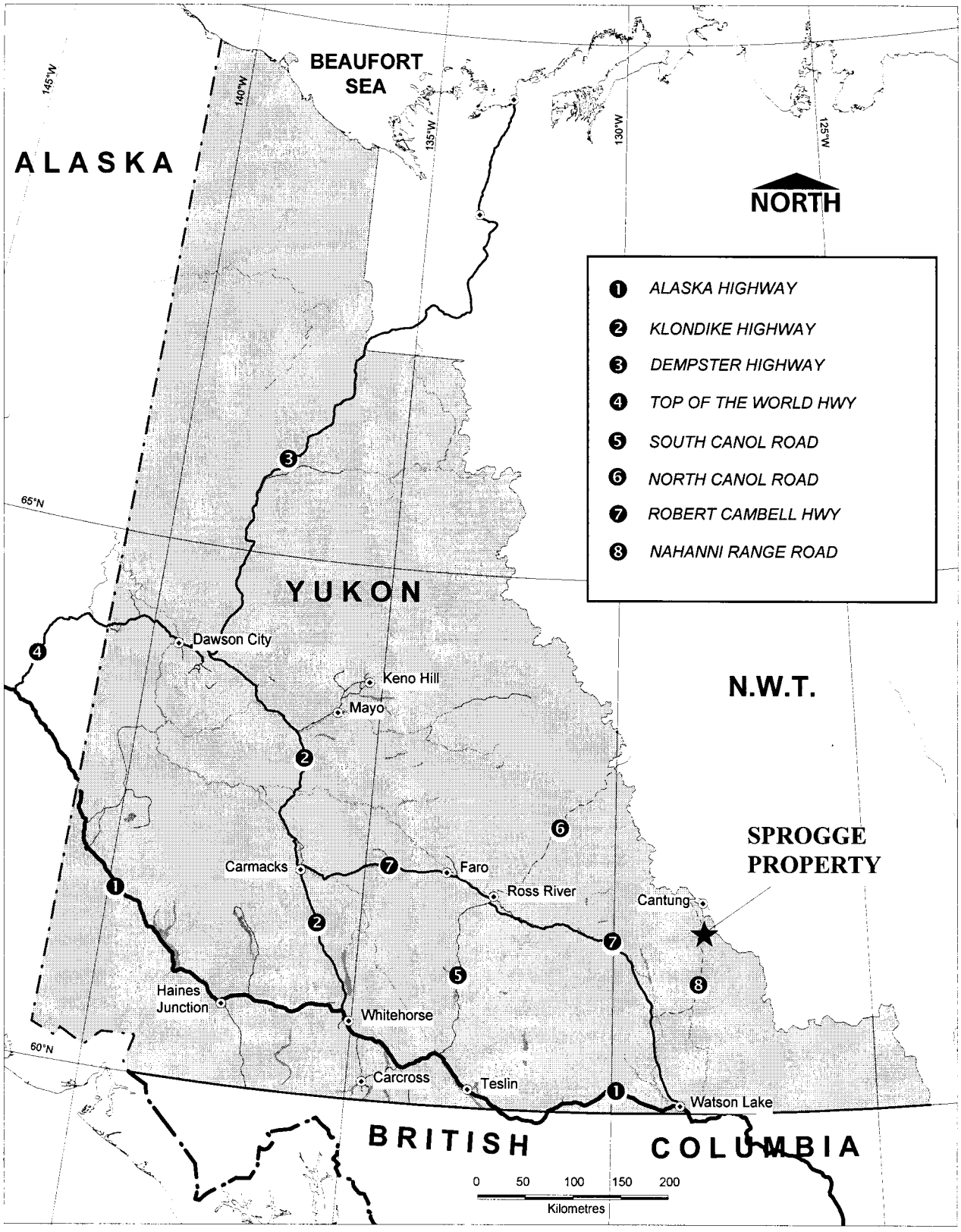
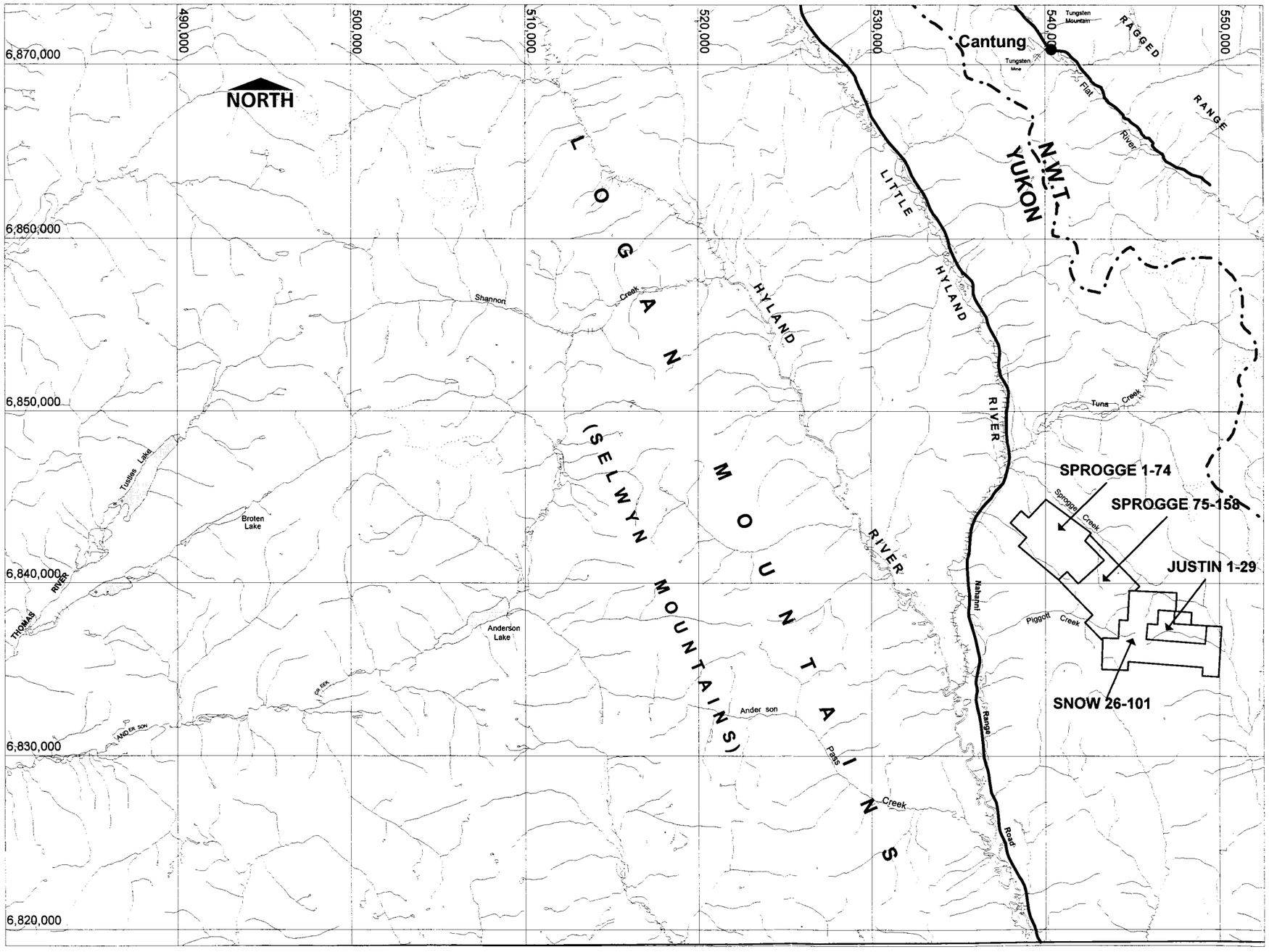


FIGURE 1: GENERAL LOCATION MAP



VICEROY RESOURCE CORPORATION

SPROGGE PROJECT, YUKON
REGIONAL LOCATION MAP

-5 0 5 10

Kilometres

NTS 105 H/9	DATE: 15-Jan-98	
Zone 9	SCALE: 1:250,000	FIGURE NO: 2

Outcrop exposure is extensive along higher elevations, with much of the property covered by extensive rubblecrop and talus. Lower elevations are covered by thin to moderate alpine glacial till, with sparse to moderate outcrop exposure along stream courses. With the exception of certain very rugged areas, particularly within parts of the gridded areas of the Justin and Sprogge claims, most areas are fairly amenable to surface exploration.

Lower elevations are covered by subalpine fir forests; locally thick "buckbrush" and scrub vegetation covers mid-elevation portions of south facing slopes. Higher elevations are covered by alpine tundra vegetation.

1.4 Regional Exploration History and Competitor Activity

The Sprogge Project lies along the southern margin of the area that has undergone extensive regional exploration for tungsten in the late 1970s and early 1980s. Intermittent property exploration has occurred nearby, most Carbide EL, in 1981, and later by Noranda Exploration and Crysi Exploration. This exploration identified vein, stockwork and breccia hosted molybdenite, chalcopyrite, pyrite, bismuthinite, scheelite, pyrrhotite, and arsenopyrite associated with a Mid - Cretaceous quartz-monzonite stock which intrudes late Proterozoic to Early Cambrian Hyland group sedimentary rock. The old claims have lapsed, and the property is currently open to staking.

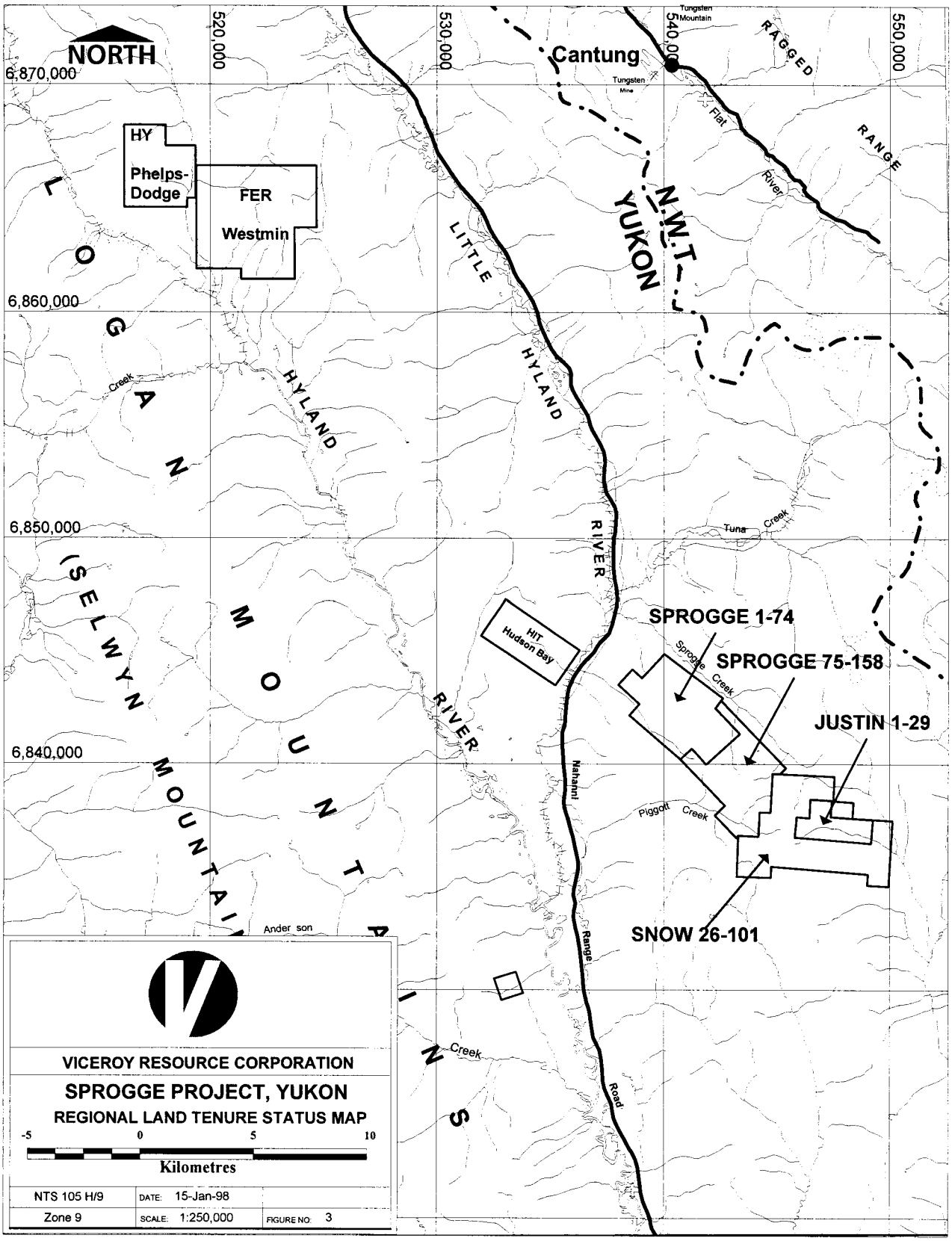
Limited exploration for skarn and vein hosted gold occurrences has occurred outside of the regional tungsten exploration project. A gold occurrence west of the property just east of the Nahanni Range Road is listed by the GSC, but has not been substantiated. In 1996, Westmin Resources staked the FER claims, covering several RGS silt anomalies NW of the Little Hyland River. Later that year Phelps-Dodge of Canada tied on the HY claims. In 1997 Hudson Bay Exploration and Development staked the HIT 1 - 32 claims just west of the Little Hyland River, along strike of the Sprogge Project. These three claim blocks remain valid (Figure 3).

1.5 Property Exploration History

The present property covers two lapsed claim blocks: the King Claims and the Sun/Rain Property. The King Claims were staked in January 1970 by W. Brander and W. Travers along the southern boundary of the present claims near the headwaters of Piggott Creek, to cover galena, sphalerite, and chalcopyrite skarn occurrences. Auriferous arsenopyrite - galena veins were found in rubblecrop at roughly the indicated location by Hemlo in 1995.

The Justin claim area was first explored in 1964, when Norquest JV staked the RAIN Claim to cover skarn and replacement style pyrite, pyrrhotite and chalcopyrite mineralization. The area was restaked as the BJ claim in 1975 by B. Corrigan, and again in 1980 as the SUN claim by Majestic Mg. Corp. Conquest EL examined the claims then optioned them to Vancliffe Resource Corp. In 1981, Waterloo Energy Corp. tied on the LIGHTNING claim along the south side, and staked a separate block 2 kilometres to the south. In 1987, Vista Resources Ltd. tied on two more SUN claims. In 1988, a joint venture consisting of Vista, Conquest, and Vancliffe drilled four holes totalling 389metres across the "Main Skarn Zone" to test potential for economic copper - gold mineralization. Noranda Exploration Ltd tied on the PTAR claims along the north side in 1988, and E.G. Sykes staked two additional SUN claims in 1990. All claims had lapsed prior to the staking of the JUSTIN 1-4 claims.

Mr Bernard Kreft staked the JUSTIN 1-4 claims to cover the central drilled area and conducted limited reconnaissance gold exploration to the southeast. In 1995 Hemlo assessed the claims, as well as areas to the north and west as far as the former King claims. Hemlo entered into an option agreement with Mr. Kreft, and staked the JUSTIN Property to the east, west, and south by staking the JUSTIN 5-25 claims in October, 1995.


NORTH
520,000
530,000
540,000
550,000
6,870,000
6,860,000
6,850,000
6,840,000
Cantung
Tungsten Mountain
Tungsten Mine
RAGGED
Flat
River
RANGE
HY
Phelps-Dodge
FER
Westmin
LOGAN
LITTLE
HYLAND
Creek
HYLAND
N.W.T.
YUKON
RIVER
Tuna Creek
HIT
Hudson Bay
SPROGGE 1-74
Sprogge Creek
SPROGGE 75-158
JUSTIN 1-29
(SELWYN MOUNTAINS)
MOUNTAINS
RIVER
Nahanni
Piggott Creek
Range
Anderson
Creek
Road
VICEROY RESOURCE CORPORATION
SPROGGE PROJECT, YUKON
REGIONAL LAND TENURE STATUS MAP
-5
0
5
10
Kilometres
NTS 105 H/9
DATE: 15-Jan-98
Zone 9
SCALE: 1:250,000
FIGURE NO: 3

In June, 1996, Hemlo Gold conducted reconnaissance exploration along the south side of a prominent lineament extending WNW of the Justin claims. Hemlo discovered abundant quartz-arsenopyrite veining within a north facing cirque called the "Sugar Bowl" roughly 9 kilometres WNW, leading to the staking of the SPROGGE 1-10 claims. Rock sampling returned values to 34 gpt Au resulting in subsequent staking of the SPROGGE 11-74 claims in July, 1996, to cover possible strike extension and territory between the two prominent WNW trending lineaments. BMG (formed by a merger of Hemlo Gold Mines Inc. and Battle Mountain Gold Ltd. in July 1996) completed two property exploration programs, and confirmed the presence of significant widespread gold mineralization.

In April, 1997 VIE entered into negotiations with BMG to enter into an option agreement on both the Justin and Sprogge Properties. An agreement was finalized in August, 1997, whereby both properties were treated as a single project, the Sprogge Project. Positive results from surface sampling and hand trenching exploration programs and structural projections led to the staking of the SNOW 26-101 claims, and the SPROGGE 75-158 claims covering all open land between the original SPROGGE and JUSTIN claims (Figure 4 and 4a).

Table 1 below lists detailed claim status, including assessment status and expiry dates following the 1997 filing. Figure 4 is a claim location map showing true claim locations; Figure 4a is a claim map showing recorded claims.

Table 1. Status of Sprogge Project claims after 1997 filing

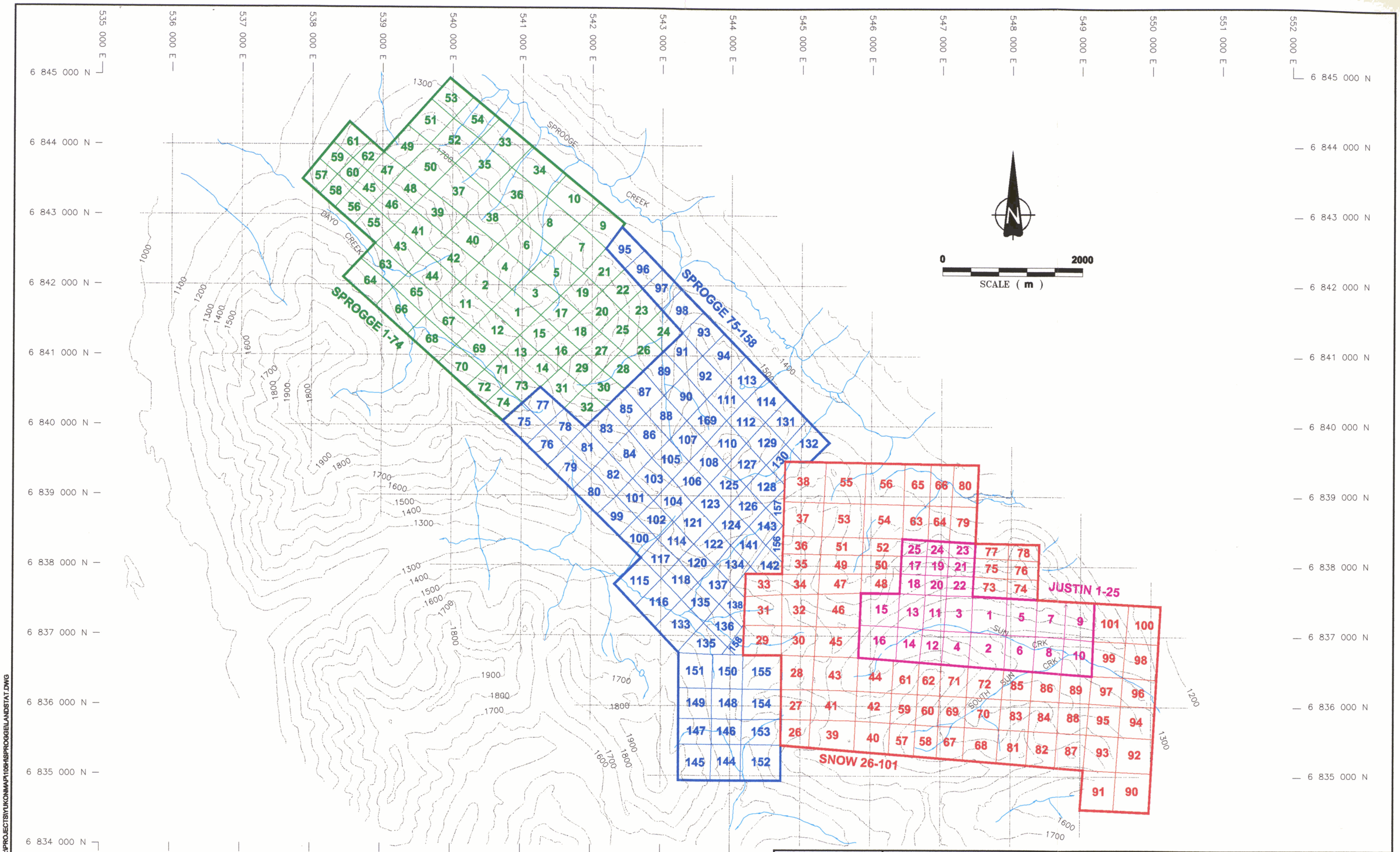
Claim Name	*Grant No.*	*Owner*	*new expiry date*	*Work completed by*
Justin 001-004	YB59913-16	Battle Mountain Canada Ltd.	October 24, 2005	Viceroy
Justin 005-025	YB70809-829	Battle Mountain Canada Ltd.	October 24, 2005	Viceroy
Sprogge 001-010	YB 85182-191	Battle Mountain Canada Ltd.	October 24, 2005	Viceroy
Sprogge 011-054	YB 85338-381	Battle Mountain Canada Ltd.	October 24, 2005	Viceroy
Sprogge 055-074	YB 85781-800	Battle Mountain Canada Ltd.	October 24, 2005	Viceroy

1.6 Work Program

Due to a mid-summer completion of the option agreement, sufficient time existed only for a brief field program. A four man crew consisting of two geologists and two field technicians concentrated on the Sugar Bowl area of the SPROGGE 1-74 claims from August 18 - 29, and on the JUSTIN 1-25 claims from August 30 - September 7. The crew consisted of:

Carl Schulze:	Project geologist
Garry Gin:	Geologist
Dylan Vaillancourt:	Field technician
Mark Randall:	Field technician

On the Sprogge claims work consisted of detailed geologic mapping in order to determine local stratigraphy and potentially economic mineralization, and extension of the soil sampling program. Eight hand trenches were excavated across various dike hosted targets. Work done on the Justin claims consisted of geologic mapping and prospecting along the north flank of the central ridge, evaluation of lithogeochemical targets close to, and southeast of, the eastern margin of the claims, and an extension of the soil sampling program along the north flank of the ridge, as well as some infill sampling in central and eastern areas. Two hand trenches intended to evaluate

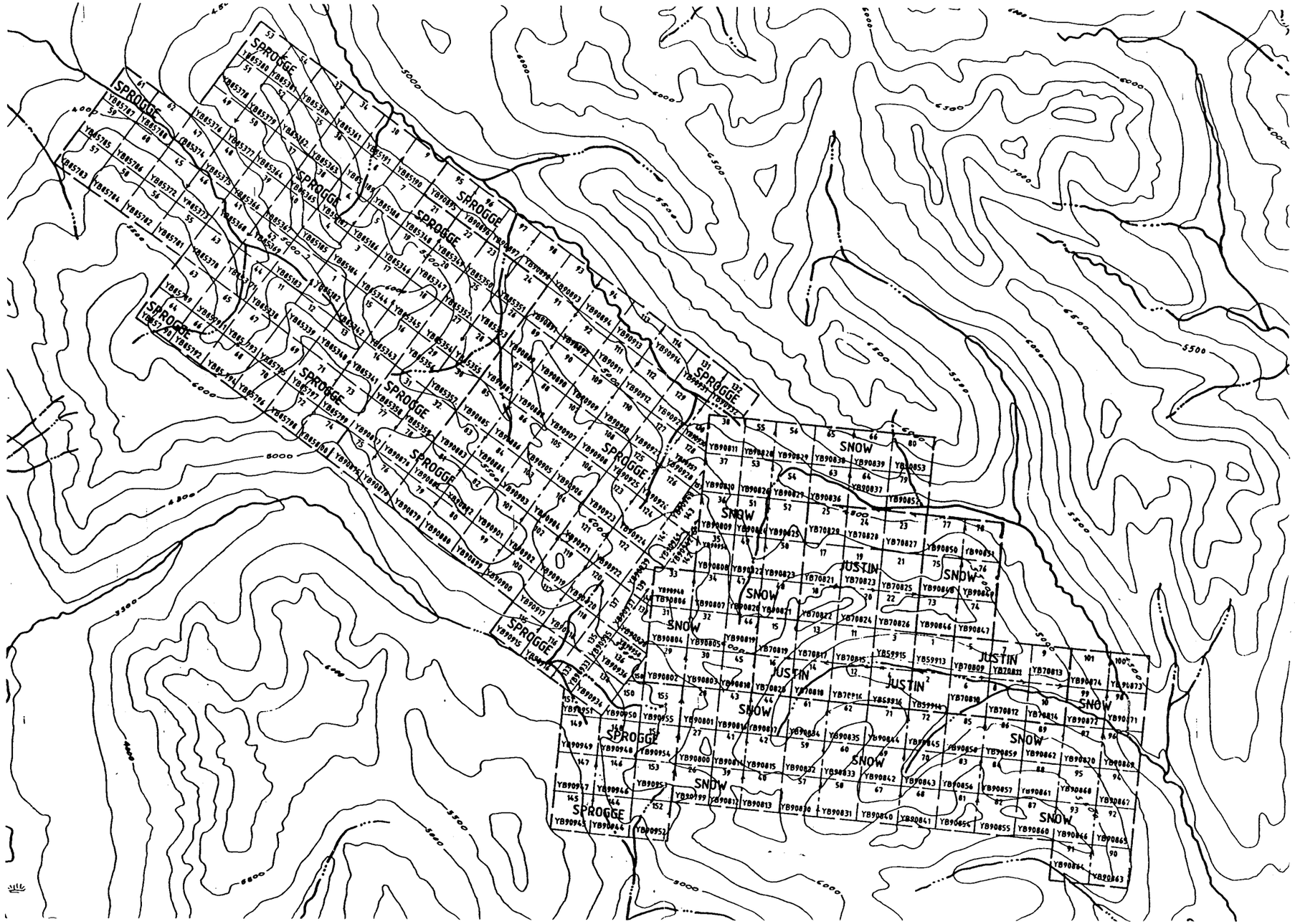


CADD FILE DIR: X:\PROJECTS\YUKON\MAP\105H\SPROGGE\LANDSTAT.DWG

VICEROY
INTERNATIONAL EXPLORATION

LAND STATUS MAP
SPROGGE PROJECT

DRAWN BY:	N.T.	SCALE:	1:50,000
DATA BY:	S.C.	NTS:	105H/9
DATE:	JAN-2-98	FIGURE:	4



0 100

SCALE (m)

VICEROY
INTERNATIONAL EXPLORATION

DIAND Claim Map
SPROGGE PROJECT
4381 - 00

DRAWN BY:	N.T.	SCALE:	1:50,000
DATA BY:	S.C.	NTS:	105H/9
DATE:	03/20/98	FIGURE:	4a

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the previously identified mineralized zone just west of the Main Skarn, and a third near the stream confluence, were excavated.

VIE expenditures to date total US $75,867, including staking and support costs of $17,671. (Appendices 1 and 1A).

1.6.1 Sample Preparation and Assay Procedure

All samples were shipped and analysed by Chemex Labs of North Vancouver, B.C. Soil samples were dried and sieved to - 80 mesh, and rock samples were crushed and pulverised to -150 mesh. All samples were subject to 30g fire assay for gold with an atomic absorption finish, and also analysed by 32M element ICP scan. Mercury was analysed using a 10 ppb detection limit. Rejects are retained at Chemex Labs for one year. All sample locations have been tied into UTM co-ordinates and have been plotted. A sample database in Microsoft Excel format is included and can be interfaced with Autocad Map or MapInfo software programs.

Table 2. 1997 Work Program Summary

Activity	Sprogge Claims	Justin (Sun) Claims	Total
Claim Staking	84 (Sprogge 75-158)	76 (Snow 26-101)	**160**
Soil Sampling:			
Line kilometres established	3.3 km	7.7 km	**11.0 km**
Soil Samples Obtained	195	268	**463**
Rock Samples Obtained	184	95	**279**
Silt Samples Obtained	1		**1**
Trenching:			
No. of Trenches	8	3	**11**
Meters of Trenching	105m	30.5m	**135.5m**
No. of Trench Samples*	56	21	**77**
* included in total no. of samples			

CHAPTER TWO: GEOLOGY

2.1 Regional Geology

The Sprogge Project lies within the Selwyn Mountains and is underlain by a sequence of Selwyn Basin stratigraphy at least 1.5 kilometres thick, composed primarily of shallow marine shelf and off-shelf sedimentary rock derived from the ancient North American Platform. Strata were deposited from late Precambrian to Permian time, with accelerated deposition coinciding with periods of continental uplift, and creating specific stratigraphic "Groups".

The Sprogge area is underlain primarily by Late Precambrian to Early Cambrian Hyland Group stratigraphy, consisting primarily of phyllite, calcareous phyllite and coarse clastic sediments, with lesser limestone. The fine sediments represent a shallow marine depositional environment, typical of a back-arc basin, although the coarse clastic may represent regions of deltaic or possibly submarine channel emplacement. Tectonic deformation and faulting has resulted in a pronounced NW-SE structural fabric which begins to "bend" southward near the NWT Border. The Hyland group sequence is separated from younger Cambrian to Ordovician Rabbitkettle Formation thin to medium bedded limestone to the north by a pronounced transcurrent NW-SE trending fault, which may represent a significant tectonic event (Figure 5).

The Sprogge Project occurs near the eastern limit of the alkaline intrusive rocks known as the Tombstone Plutonic Suite. This intrusive belt consists of a broad suite of mid-Cretaceous (+/- 91ma) quartz monzonitic stocks and plutons extending over 400 kilometres ESE from just east of the Alaskan border to just beyond the NWT border. The intrusives often occur as dikes and apophyses, associated with broad zones of hornfelsing. Several Tombstone Suite stocks have been emplaced locally to the north of the Sprogge Project. These control most of the known mineralization in the area, most notably the Cantung tungsten skarn deposit 30 km to the north, and similar subeconomic mineralization underlying the Tuna Property located 10 km north. A suite of related dikes, often NNW trending, occurs within the area.

The Sprogge Project occurs where Selwyn Basin statigraphy and the NW-SE structural fabric begins to curve southwards. Emplacement of the Tombstone Suite occurred after the regional faulting. Major linear fault controlled drainages, primarily the Hyland and Little Hyland Rivers, show that major "linears" extend nearly N-S.

2.2 Property Geology

The property is underlain by a broad package of WNW trending NNE dipping Hyland Group sediments consisting of thick units of coarse clastic sediments interbedded with fine grained phyllitic units. The extreme north-eastern areas are underlain by a thick package of Rabbitkettle Formation thin bedded tan weathering limestone. Hyland Group stratigraphy has been intruded by a suite of NNW trending structurally controlled Tombstone Suite quartz monzonite and quartz-biotite monzonite dikes. The NW-SE trending Sprogge Creek Fault (local name) extending along the north boundary of the property, separates the two groups to the east of the original SPROGGE 1-74 claims. West of this, the contact fault splays slightly to the NW of the pronounced lineation controlling the Sprogge Creek drainage.

Detailed geologic mapping has been completed only across gridded areas of the original Sprogge and Justin blocks and limited reconnaissance mapping and prospecting has occurred elsewhere. A 1:20,000 scale property compilation geology map is included as Plate 1; detailed 1:5000 scale maps for the Sprogge area are included as Plates 2, 3 and 4 and for the Justin Claim area as Plates 5, 6 and 7.

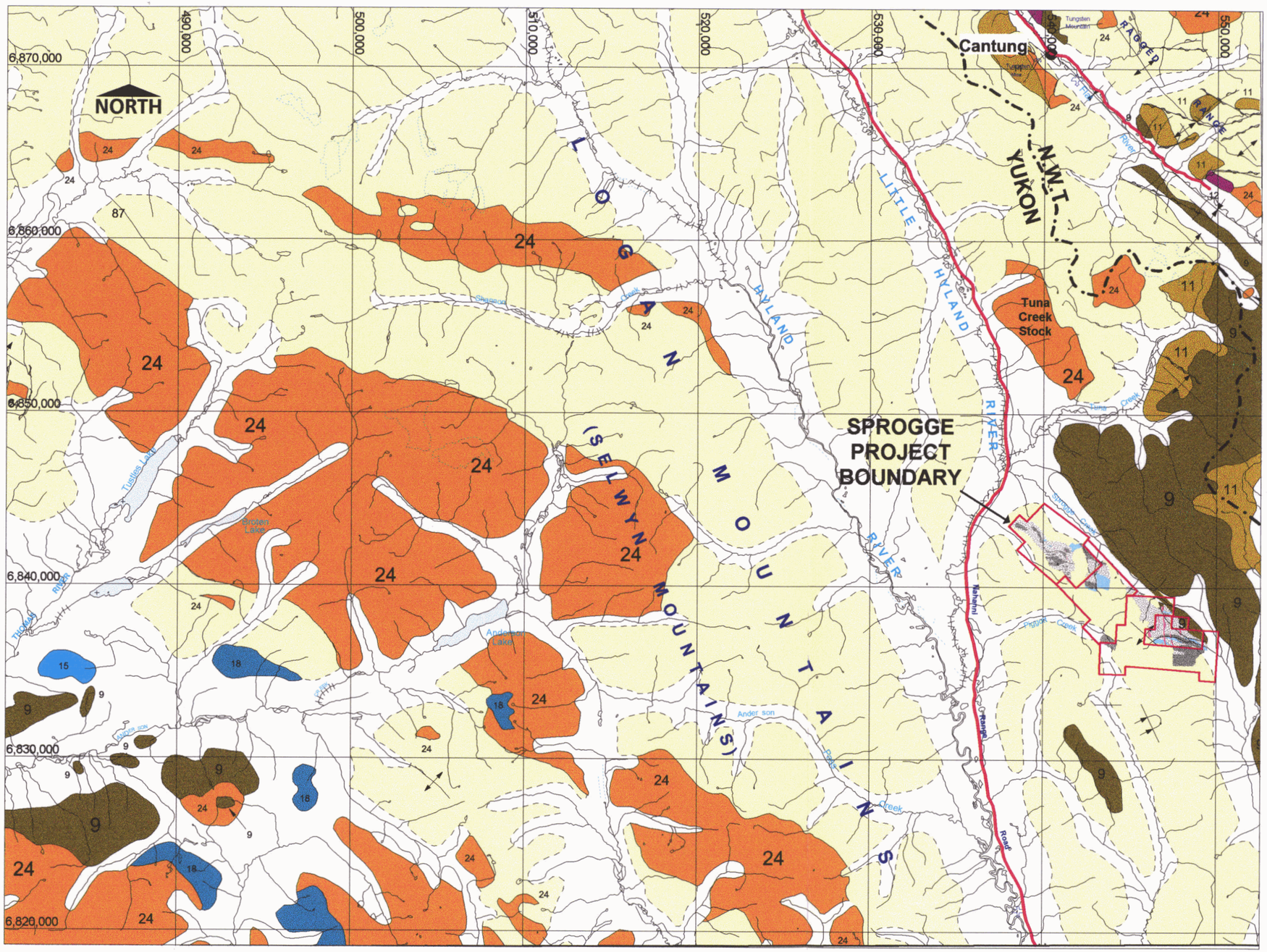

NORTH
6,870,000
6,860,000
6,850,000
6,840,000
6,830,000
6,820,000
490,000
500,000
510,000
520,000
530,000
540,000
550,000
Cantung
Tungsten
Mountain
CANOL
ROAD
RANGE
RANGE
Tuna
Creek
Stock
N.W.T.
YUKON
LITTLE
HYLAND
HYLAND
RIVER
RIVER
SPROGGE
PROJECT
BOUNDARY
LOGAN
MOUNTAINS
(SELWYN
MOUNTAINS)
Tuna
Creek
Tuna
Creek
Tuna
Creek

Table 3

TABLE 3: STRATIGRAPHIC COLUMN: SPROGGE PROJECT

Age	Group	Formation (Lithology)	Member	Geology Map Designation	Rock Code	Description
Cretaceous (91 Ma)	Tombstone Plutonic Suite	Quartz Monzonite		Kqm	QM	QUARTZ MONZONITE Medium grained roughly equigranular quartz monzonitic dikes related to Tombstone intrusive suite. Hypogene argillic, phyllitic, and limonitic alteration common within dikes underlying Sugar Bowl area; weak pervasive silicification within dikes underlying Justin Claims.
Cretaceous (91 Ma)	Tombstone Plutonic Suite	Quartz Monzonite		Kqbm	QBM	QUARTZ BIOTITE MONZONITE Similar fabric and setting to above, with >10% biotite, often altered to sericite. Noted to date only within Sugar Bowl area, locally limonitic.
Cambrian-Ordovician	Rabbitkettle Formation	Limestone		COr	LST	LIMESTONE Thin to medium bedded fairly pure limestone, weathers buff to light brown. Appears to have limited economic potential.
Late PreCambrian - Early Cambrian	Hyland Group	Limestone (Yusezyu Formation)	Upper	PrCh	LST (SLST)	LIMESTONE Medium to thin bedded impure grey to red-brown weathering limestone, often with high silt content (SLST), and locally interbedded with clastic sediments. Host lithology to Cu-As-Au skarn mineralization underlying Justin Claims. Upper member of Yusezyu Formation, lower of two formations comprising Hyland Group; quiet sub-wave depositional environment.
Late PreCambrian - Early Cambrian	Hyland Group	Phyllite (minor argillite) (Yusezyu Formation)	Middle	PrCh	PHY	PHYLLITE Thick sequences of thin bedded, fissile, fine grained sediments. Locally interbedded with weakly graphitic argillite, lithologies not separated on compilation maps. Middle member of Yusezyu Formation; shelf and off-shelf depositional conditions along margin of North American protocontinent.
Late PreCambrian - Early Cambrian	Hyland Group	Shale (Yusezyu Formation)	Middle	PrCh	PHY	SHALE Thin shale members stratigraphically overlie phyllite member in Sugar Bowl area. Thin bedded, locally chloritic, possible marker horizon.
Late PreCambrian - Early Cambrian	Hyland Group	Siltstone (Yusezyu Formation)	Middle	PrCh	SLT	SILTSTONE Thick sequence of weakly calcareous siltstone interbedded with phyllite underlies central areas of Justin Claims. Probably part of phyllite package, but somewhat more reactive, resulting in weak silicification and calc-silicate alteration.
Late PreCambrian - Early Cambrian	Hyland Group	Quartz-Pebble Conglomerate, Qtz-Feldspar Pebble Congl. (Yusezyu Formation)	Lower	PrCh	QPC, QFPC, GW	QUARTZ-PEBBLE CONGLOMERATE Thick, fairly homogenous coarse clastic members consisting of quartz-pebble conglomerate and lesser quartz-feldspar pebble conglomerate and greywacke. Clast size ranges from 1.0mm to 2.0 cm. Calcareous cement has been largely decalcified and silicified, resulting in chalcedonic matrix. Interpreted as lowest member of Yusezyu Formation, formed within submarine fan depositional conditions, possibly delineating submarine paleochannels.
Late PreCambrian - Early Cambrian	Hyland Group	Sandstone (Yusezyu Formation	Lower	PrCh	SS	SANDSTONE Fine grained submember of quartz-pebble conglomerate, otherwise similar fabric and alteration. May represent distal facies of submarine fan environment.

2.2.1 Stratigraphy

2.2.1.1 Hyland Group

The late Precambrian to early Cambrian Hyland Group represents the basement sequence and probably the most extensive group within the Selwyn Basin, extending across the central Yukon. It has been subdivided into two major formations: the lower Yusezyu Formation, consisting of coarse sandstone, shale and phyllite, capped by a minor, discontinuous limestone member; and the upper Narchilla Formation, consisting mostly of maroon to dark blue-grey shale, with local fine sandstone to siltstone members (Gordey and Anderson, 1996). The presence of coarse clastic members suggests that the Yusezyu Formation underlies the Sprogge Project.

Yusezyu Formation stratigraphy underlying the property consists of ESE trending, thick members (up to 150m) of quartz-pebble conglomerate, coarse sandstone and calcareous sandstone, and minor greywacke, interbedded with phyllite, shale, and chloritic shale with minor limestone. Several units of impure limestone occur, particularly east of the Sprogge 1-74 claims and the Justin claims. The laterally extensive coarse clastic members underlying the Sprogge claims comprise roughly 50% of an evenly interbedded sequence with the phyllitic members. Central areas of the Justin claims are underlain by calcareous phyllite, siltstone and minor limestone, with coarse clastic members underlying the northern and southern areas. The coarse clastic members are abundant across the property, although lateral extent of individual members has not been determined.

In a 1993 GSC paper, Gordey and Anderson suggest that the coarse clastic members were deposited as sediment gravity flows, particularly as turbidity or debris flows. The submarine fan depositional model suggests that a point source clastic discharge is channelled through a paleostructure onto a slope. Thick bedded channel deposits grade outwards to thin bedded distal deposits; much of the coarse clastic members of the Yusezyu Formation were deposited as upper or mid-fan channels (Gordey and Anderson, 1996). The ultimate source of the coarse clastics is likely to be a granitic or possibly high grade metamorphic terrain, with vein quartz the possible source of the quartz pebble fragments. The coarse clastics may also be deposited by rapid discharge of sediment laden streams in a shallow submarine environment; limestone units also suggest a shallow marine depositional environment.

2.2.1.2 Rabbitkettle Formation

The Late Cambrian to Middle Ordovician Rabbitkettle Formation, which underlies limited portions along the NE property boundary, consists of white to buff weathering thin to medium bedded fairly pure limestone. It has been interpreted to have formed in a quiet, sub-wavebase offshelf setting (Gordey and Anderson, 1993), and is likely younger than Rabbitkettle sequences elsewhere.

2.2.2 Intrusive Rocks

A suite of structurally controlled subvertical dikes belonging to the Mid-Cretaceous Tombstone Suite extend at roughly at 340 degrees across the property. The dikes are most abundant within terrain underlying the gridded areas within the Justin claims and the Sugar Bowl area of the Sprogge claims. Extent of dike emplacement between gridded areas is poorly understood. Lithology of the dikes varies slightly from quartz-biotite monzonite within the Sugar Bowl to almost mica-free quartz monzonite to monzodiorite underlying the Justin claims. Strong argillic alteration, with clay development and destruction of biotite to sericite occurs within dikes underlying the Sprogge claims. Less developed argillic alteration and moderate silicification has occurred within dikes underlying the Justin claims, resulting in a buff colour.

2.2.3 Structural Geology

The stratigraphic sequence underlying the northern half of the property strikes WNW-ESE (300 - 310 °) and dips gently to moderately (30-40 °) to the NNE. Stratigraphy underlying extreme SE portions of the Sprogge claims has a similar strike, but dips gently to the SSW. Foliation directions are parallel to or slightly NW-SE of bedding, with similar dip directions.

Stratigraphy underlying the Sun claims strikes at about 290° and is nearly flat lying to weakly south dipping. Foliation directions are very variable, often extending roughly N-S with a subvertical dip near dikes or structurally disrupted areas. Near the Sprogge Creek fault, bedding and foliation directions become strongly disrupted, with an overall NW-SE trending fabric extending to the fault.

Two major structural events have occurred across the property. The first is the establishment of NW-SE trending right lateral transcurrent faulting and associated NNW trending extensional faulting. This was followed by the emplacement of a set of conjugate faulting and shearing, with structures oriented roughly NE-SW and E-W respectively. Three prominent jointing directions occur across the property: a NNW-SSE trending, steeply dipping set; a NE-SW striking set, dipping moderately to steeply to the NW, and a roughly E-W striking subvertical set. The NNW trending set is most prominent, and is subparallel to the structurally controlled dikes and other prominent features.

2.2.3.1 Transcurrent Faulting

Two NW-SE trending transcurrent faults extend along the property boundaries: the Sprogge Creek fault, characterised by a pronounced lineament along the NW property boundary; and the inferred Dayo Creek Fault, controlling stream drainage along the south-east property boundary. The Sprogge Creek Fault forms the contact between Hyland group and Rabbitkettle Formation stratigraphy from a point just east of the Sprogge claims; the contact splays slightly to the NW west of this point. A well developed set of extensional faulting resulting in dilational structures extends at 340 ° between the transcurrent faults across the entire property. This coeval fault system suggests dextral movement along the transcurrent faults. The dilational structures became the settings for Cretaceous dike and NNW trending vein emplacement. Other NNW trending structural features, including the prominent jointing direction and foliation along major fault structures, also appear to be caused by this extensional regime. This lineation represents an extensional fabric between the transcurrent faults similar to the structural fabric within the Tintina Fault Zone.

The NNW trending lineament is most prominent near the Sugar Bowl and central areas of the Justin claims. Also, a significant fault, called the Neebing Fault, occurs within a large trough roughly 3.5 kilometres west of the central Justin claim block. A strongly pyritic breccia zone along a north flowing tributary of Piggott Creek is spatially associated with mineralized quartz vein and stockwork zones, as well as ferricrete deposits. Very strongly anomalous gold values were returned from nearby streams. Another prominent fault occurring roughly two kilometres east of the Sugar Bowl controlling the drainage of a tributary of Sprogge Creek is probably a northern extension of the Neebing Fault.

A similar N-S trending inferred fault controls the drainage of a south flowing tributary of Piggott Creek. Smaller subparallel faults also control portions of other stream drainages, often associated with stockwork zones and/or ferricrete occurrences.

Normal and reverse block faulting can be seen along the ridge south of Dayo Creek. A visible vertical displacement of 10-50m suggests a similar extensional regime underlying the Sprogge Project.

2.2.3.2 Conjugate Shear Fabric

A conjugate set of faulting and associated shearing extending NE-SW and E-W respectively underlies the property west of the Justin claims. This fabric is less obvious than the extensional faulting. The NE-SW trending faulting controls many of the minor drainages, as well as the NE trending joint set and some of the mineralized veining underlying the west flank of the Sugar Bowl. A significant fault extends NE from just west of the Neebing Fault to the Sprogge Creek Fault. Cross-cutting NE trending minor faults and associated mineralization across NNW trending dikes suggest this lineation post-dated the NNW trending fabric.

Abundant quartz-arsenopyrite vein float comprising the "Meadows Zone" along the west flank of the Sugar Bowl may be controlled by an E-W trending structure. Sharp stratigraphic contacts locally suggest that control may be also at least partly stratigraphic. The E-W trending joint set, and at least one other minor similarly mineralized occurrence also suggest a local E-W structural control.

These structural events have resulted in three major orientations of permeable structural fabric, including zones of brittle fracturing and an increased fissile nature of fine sedimentary rocks. This has resulted in the formation of abundant favourable areas for mineral emplacement. Intersection zones of major shear fabrics may provide particularly favourable settings.

2.2.4 Property Lithologies

The following is a brief discussion of lithologies mapped on the property. A stratigraphic column is included as Table 3.

2.2.4.1 Cretaceous Intrusives

The following variants of the Tombstone Suite intrusives have been recognized:

Quartz monzonite (QM), also Quartz Diorite (QDR); visual distinction only
Quartz biotite monzonite (QBM)
Limonitic Altered Quartz Monzonite (LAQM)

The QM dikes underlying the Sprogge claims are medium grained, roughly equigranular, and contain only minor amounts of mafic minerals. Dikes underlying the Justin claims are weakly quartz-feldspar porphyritic. Petrographic thin section analysis is necessary to determine if the QM and QDR are two separate lithologies, or have been differentiated merely on differences in mafic mineral content. Within the Sprogge claims, these have been locally crosscut by NE-SW trending faults and associated quartz-arsenopyrite veining, and have been locally mineralized. The dike hosted intrusive rock underlying the original Sprogge claims has undergone varying amounts of hypogene argillic alteration resulting in a range from pristine to strongly altered material, with strongest alteration occurring within or south of the Sugar Bowl. Dike material underlying the Justin claims has undergone moderate hypogene argillic alteration and moderate silicification. A quartz diorite dike extends across the western Justin claims.

The QBM is texturally very similar to the QM, but contains from 10 - 15% biotite. Similar variable argillic alteration has occurred, associated with nearly complete destruction of biotite to sericite, resulting in a pale green colouration. Similar NE trending faults have produced localized mineralization. Some dikes appear to grade from a QBM to a QM with only accessory biotite, suggesting an evolution of magma within the same unit.

Limonitic altered quartz monzonite occur locally within certain areas of the Sugar Bowl, and result from oxidation of pyrite within altered portions of the dikes. Limonitic quartz biotite monzonite is differentiated by the presence of altered biotite and sericite. The dike extending across the eastern flank of the Sugar Bowl contains up to 7% fresh disseminated fine grained pyrite, as well as the strongest dike hosted limonitic alteration on the property.

2.2.4.2 Sedimentary Rocks

The sedimentary rocks are comprised of two major formations: the Rabbitkettle Formation (COr), and the Yusezyu Formation of the Hyland Group (PrCh).

The only unit recognised within the Rabbitkettle Formation is a thin to medium bedded white to buff weathering limestone (LST). This underlies extreme NE areas of the project to the north of the Sprogge Creek Fault.

The following lithologic units have been identified within the Yusezyu Formation of the Hyland Group:

Limestone (LST)
Silty limestone (SLST)
Phyllite (PHY)
Argillite (ARG)
Siltstone (SLT)
Shale (SH)
Sandstone (SS)
Greywacke (GW)
Quartz Pebble Conglomerate (QPC)
Quartz Feldspar Pebble Conglomerate (QFPC)

These can be grouped into three members: the lowest is the coarse clastic member (QPC, QFPC, lesser GW, SS); the middle fine grained member (PHY, ARG, SLT, SH), and the upper limestone member (LST, SLST). Portions of the SLST may belong to the middle member.

The limestone member (LST) consists of thin to moderate sized, somewhat discontinuous units of impure thin to medium bedded limestone, often interbedded with or grading into fine grained calcareous sediments. Limestone underlying the Justin claims has often undergone strong calc-silicate alteration and/or silicification, and hosts much of the economic mineralization underlying the claims.

Silty Limestone (SLST) is impure limestone with a significant fine clastic component, or a finely interbedded sequence of limy and silty beds.

Phyllitic members (PHY) consists of thick sequences of monotonous, fairly uniform fissile thin bedded fine grained sediments. These comprise the majority of the fine grained units underlying the original Sprogge claims. Weakly silicified calcareous phyllite, displaying some calc-silicate alteration underlies the central portion of the Justin claims. It tends to be somewhat more coarse grained than phyllite underlying the Sprogge claims, and have been historically described as siltstone.

Argillite (ARG) underlies limited portions of the Sprogge claims, and forms small sub-units within the phyllite. These tend to be fine grained and fissile, with a slightly higher graphite content than the phyllite.

Siltstone (SLT) is interbedded within the broad phyllite unit underlying the Justin claims, and represents slightly more coarsely grained beds within this weakly silicified calcareous package. Within the Justin claims, the phyllite unit itself is sometimes mapped as siltstone.

Shale (SH) occurs as a laterally extensive, fairly thin stratigraphically conformable unit extending to the north of, and overlying the main mineralized stratigraphy underlying the Sugar Bowl. Portions of the fine grained fissile shale display strong deep green chloritic alteration, and may be used as a marker horizon across parts of the property.

Quartz Pebble Conglomerate (QPC) occurs as thick, poorly sorted, largely undifferentiated units across the property. Grain size ranges from sand sized grains to fragments greater than 10mm in length. Euhedral to subhedral (broken) feldspar grains comprise from 10 - 30% of the rock mass. Quartz grains are commonly rounded to subrounded and comprise from 25 - 60% of the rock mass. Minor mafic lithic fragments occur locally. The matrix consists partly of very fine grained quartz and minor feldspar within a calcareous cement, but most commonly contains introduced silica following decalcification, locally resulting in a chalcedonic texture. Across the property, variable amounts of silicification and selective argillic alteration of feldspar grains has occurred. This unit was originally mapped as an altered intrusive assemblage.

Quartz Feldspar Pebble Conglomerate (QFPC) is similar to QPC except that it contains a significant amount of feldspar clasts.

Sandstone (SS) represents a more finely grained variant of the QPC, and is often calcareous. This may represent a more distal submarine fan or stream sediment depositional setting to that forming the QPC.

Greywacke (GW) consists of poorly sorted medium to coarse grained clastic sediments, possibly with a higher lithic fragment component. It may represent a locally turbiditic environment, possibly along submarine channel walls.

Because of the intimate association of lithologies within individual members, no attempt was made during geological mapping to subdivide these members into component lithologies. The members themselves are easy to delineate.

CHAPTER 3: MINERALIZATION

3.1 Introduction

Three major styles of gold mineralization have been recognized on the Sprogge Project. Each is interpreted to represent different structural styles related to one widespread, large, long lived, multi-pulsed late mesothermal to epithermal mineralising event. These are: 1) fracture controlled vein, vein breccia, stockwork and extensional fault controlled mineralization, including shear hosted mineralization cross-cutting Cretaceous dykes; 2) skarn and replacement style mineralization, and; 3) a combination of these, resulting in pervasive mineralization within coarse clastic sediments.

The major control appears to be extensional fault related dilational zones corresponding to the NNW trending lineation. The NE trending lineation also controls some high-grade vein mineralization, and local E-W trending faulting may control some vein mineralization, particularly within the Meadows Zone.

Alteration associated with these mineralised settings is a reflection of the physical and chemical characteristics of the original host rock. The major factors are the permeability and reactivity of the host rock, and proximity to faults and structural corridors which may act as conduits for mineralized fluids.

The coarse clastic and calcareous members of the Yusezyu Formation provide favourable settings for pervasive alteration and mineralization. The fine clastic members underlying the Sugar Bowl area are prone to brittle fracturing and parting along fissile bedding planes. They locally host fracture controlled vein mineralization, and have potential to host stratabound mineralization. Fine sediments underlying the Justin claims are more calcareous; thus some potential exists for replacement style mineralization.

3.2 Types of Mineralization

3.2.1 Fracture Controlled Mineralization

The most obvious style of mineralization consists of quartz-arsenopyrite veins, vein breccia and fracture controlled mineralization. Typically these contain from 5-25% arsenopyrite, often concentrated along fractures within the veins, and have strongly anomalous antimony, bismuth and moderately elevated mercury signatures. Veins are typically narrow, averaging 20-30 cm. in width, but locally attain widths of up to 2.0m. Well developed scorodite development has resulted in an easily identifiable pale green colour. Localised advanced argillic alteration occurs where feldspar occurs within veining. Veins tend to be structurally controlled along all of the major lineation directions, suggesting vein development post-dated major structural development.

Quartz-arsenopyrite veining occurs within all lithologies, exhibiting varying textural characteristics depending on the host rock. Within the coarse clastic units, veins tend to be narrow and fault controlled; however, mineralization extends considerably into the silicified host rock. Barren quartz stringer zones are common near margins of these units. Veins underlying the south-eastern gridded area (Swagman Zone) tend to be wider than those along the west flank of the Sugar Bowl.

Vein mineralization within the phyllitic members tends to occur as narrow brittle fracture controlled veins ranging from nearly microscopic to roughly 20cm in width. The best example of this is the Meadows Zone, a wide target where vein material comprises 15 - 20% of the width of the showing. Several larger NE trending veins up to 1.0m wide occur within fine grained sediments along the west flank of the Sugar Bowl.

Narrow NE trending fault controlled quartz-arsenopyrite veins crosscut the Cretaceous dikes underlying, and extending south from the Sugar Bowl. These are associated with fairly pervasive argillic alteration, and phyllitic alteration where original biotite occurs. No determination has yet been made concerning relative gold abundance in veins hosted by the conjugate shear fabric versus the extensional faulting.

Gold content within veins underlying the Sugar Bowl appears to be independent of host lithology. A spatial zonation does occur: veins along the west flank of the Sugar Bowl commonly return values from 10.0 - 34.8gpt Au; veins from the south-eastern areas return values from 3.0 - 11.5 gpt; veins from eastern areas return up to 15.0 gpt but usually range from 1.0 - 5.0 gpt; and veining from NE areas returned gold values under 1.0 gpt. High gold values were returned from veins west of the west flank, and gold values to 2.2 gpt were obtained SE of the Sugar Bowl.

Quartz-arsenopyrite veins are less abundant underlying the Justin claims. Limited narrow fault controlled veining returning up to 1.6 gpt Au occurs within the phyllite and limestone units. One exception is a 20cm wide quartz-galena-arsenopyrite vein returning 15.8 gpt Au, located roughly 1.0 km E of the Main Skarn.

Numerous mineralized stringer and stockwork zones returning anomalous gold values suggests that mineral zonation occurs across the property. Vein and stringer zones have been outlined outside of the gridded areas, including: the "Neebing Zone", a quartz-arsenopyrite-galena stringer zone 3.5 km W of the Main Zone, and the "Warren Zone", a quartz-arsenopyrite- galena vein and stringer zone 2.0 km NW of the Sugar Bowl.

The quartz-monzonite dikes underlying the gridded area within the Sprogge claims have undergone considerable argillic and phyllic alteration, associated with fault and fracture controlled mineralization. Limonitic alteration within the eastern dike is associated with oxidation of fine grained disseminated pyrite. Dikes within the Justin claims have undergone weak argillic alteration and silicification, and locally contain fine quartz stockwork mineralization, largely along contact zones where fine brittle fracturing has occurred.

Abundant quartz-arsenopyrite veining returning values to 15.0 gpt Au are spatially associated with the central dike within the Sugar Bowl. A strongly anomalous gold geochemical signature associated with the dike, which is often limonitic, may be caused by these veins. Up to 5% disseminated fine grained pyrite occurs within trenched material from the east dike, which has a strongly anomalous gold geochemical signature. The east and central dikes may remain viable exploration targets.

The quartz monzonite dike along the west boundary of the Main Skarn within the central Justin claims has undergone brittle fracturing and subsequent chalcedonic veining. Sampling has returned values to 5.7 gpt Au/1.5m underlying the western part of Trench SN97-2, which returned 2.38 gpt Au/22.5m. Thus, these dikes have potential to host significant mineralization. However, sampling of dike material elsewhere underlying the Justin claims returned weakly anomalous to background gold values.

Four zones of fracture controlled mineralization within varying lithologies have been identified: the Meadows Zone, Matilda Vein, Sheila Zone and Swagman Zone.

3.2.2 Skarn Mineralization

The limestone and silty limestone units underlying the Justin claims have undergone typical skarn type mineralization, consisting of decalcification, silicification, and calc-silicate and sulphide mineral development within these flat-lying units. No significant skarn mineralization underlying the Sugar Bowl area has been noted. More exploration is necessary to determine the presence of skarn mineralization elsewhere.

Two major zones occur within the Justin claims: the Main Skarn and Kangas Zone. Several smaller zones occur along the north flank of the central ridge. Replacement style massive pyrrhotite and pyrite, as well as disseminated chalcopyrite and fracture and replacement style arsenopyrite typify the unique skarn assemblage of the Kangas

Zone. Calc-silicate minerals include fine grained diopside, actinolite, and minor chlorite. Apparently, with the exception of the western extreme of the Main Skarn, gold is associated most strongly with arsenopyrite, only moderately anomalous values were returned from chalcopyrite enriched samples, and pyrrotitic zones returned near background values.

With the exception of the Kangas Zone, all skarn occurrences are associated with NNW trending dikes, although it is surprising such narrow dike emplacement could cause such extensive mineralization. Mineralization also is associated with a well developed NNW trending lineation, including jointing and foliation.

3.2.3 Mineralization Within Coarse Clastic Sediments

The coarse clastic sediments provide an excellent setting for hydrothermal mineralization. These thick, uniform units are permeable due to coarse fragment size, fairly reactive due to calcareous nature of much of the original matrix cement, and prone to semi-brittle fracturing, shown by the presence of several fault zones and quartz stockwork zones, particularly along contacts. These broad mineralized zones have the greatest potential to host bulk tonnage gold deposits within the property.

Due to their permeable and reactive nature, the coarse clastic units underlying the Sprogge claims, particularly the unit underlying the south flank of the Sugar Bowl, have undergone extensive silicification and argillic alteration. Silicification resulting from decalcification and replacement of the matrix is widespread, often occurring as chalcedonic stringers and stockwork zones. Selective argillic alteration has resulted in almost complete conversion of feldspar clasts to clay minerals; however, the rock remains competent due to the silicified matrix. In addition to narrow fracture and fault controlled quartz veining and adjacent wall rock mineralization, extensive fine quartz and chalcedonic stockwork zones are abundant. Values of 0.33 gpt/3.0m, and 1.09 gpt/4.0m were returned from altered, fine stockwork bearing zones lacking larger veins within separate areas of the Sugar Bowl. A value of 6.7 gpt was returned from a grab sample of arsenopyrite bearing chalcedonic mineralization. Most coarse clastic stratigraphy is variably limonitic, resulting from oxidation of fine sulphides. Strongly limonitic zones often have a strongly anomalous gold geochemical signature.

A broad zone of chalcedonic veining within coarse clastic sediments is centred at the confluence of Sun and South Sun Creeks within the eastern part of the Justin claims. Weak pervasive silicification but very limited argillic alteration has occurred. These fracture controlled veins range in size from nearly microscopic to 2.0m in width, and return gold values from 0.42 gpt Au to 7.0 gpt Au/1.5m with a value of 4.24 gpt Au/4.5m returned from Trench SN97-3. These overprint localised quartz-arsenopyrite veining and appear to be the primary gold host. Although most veining appears to be sulphide poor, local strongly pyritic float has returned up to 0.52 gpt Au. Rock sampling of a similar zone occurring just north of the NW boundary of the Justin claims has returned up to 0.45 gpt Au; RGS silt sampling of a local stream returned 45 ppb Au.

Five mineralized zones are recognised as being coarse clastic sediment hosted potential bulk tonnage targets: the Ridge Zone, Confluence Zone, Warren Zone, Neebing Zone, and Hodder Hill Area.

3.3 Structural Controls to Mineralization

Mineralization across the property appears to be controlled by the NNW trending extensional fault set, and the later-stage conjugate shear fabric. Comparable gold values have been returned from fracture controlled mineralization from both regimes; thus, no temporal fracture controlled gold zonation has been determined.

The major NW trending transcurrent faults are deep seated, and overlain by glacial till. No significant mineralization has been noted, although ferricrete occurs along the south flank of the Sprogge Creek Fault north of the Justin claims.

3.3.1 Mineralization and Extensional Faulting

Most mineralization is controlled by NNW trending extensional faulting. Dike emplacement and spatially associated veining is controlled by this feature, although vein orientation appears to be irregular. Values including 15.0 gpt Au and 11.7 gpt Au from vein composite grab samples, and 9.55 gpt Au/4.0m from continuous chipping have been returned from veining proximal to dikes at the Swagman Zone.

Skarn mineralization, although fairly extensive within the limestone members, occurs along NNW trending structural corridors, including dikes. Some of the skarn zones have a N-S orientation. Mineral emplacement is partly controlled by the flat lying bedding; fluids disperse from N-S trending corridors and are emplaced within favourable horizons. Results include: 2.38 gpt Au/22.5m returned from the Main Skarn, and 1.6 gpt Au/1.5m from the Kangas Zone.

3.3.2 Mineralization and Conjugate Shearing

The conjugate NE-SW and E-W trending shear fabric controls much of the vein emplacement. It also appears to partially control alteration and mineralization within the permeable coarse clastic members. NE trending veins along the W flank of the Sugar Bowl have returned values to 18.8 gpt Au/1.0m, 15.2 gpt Au/1.5m, and 23.8 gpt Au/1.5m, and grab samples to 20.4 gpt Au.

The E-W lineation may control veining along the west flank of the Sugar Bowl, particularly along the Meadows Zone. Continuous chip sampling across this zone returned 6.9 gpt Au/12.0m. A similar zone roughly 400m north returned values to 3.6 gpt Au.

3.4 Geologic Model of Mineralization and Alteration

The Sprogge Project extends NW between two major, district scale NW trending right lateral transcurrent faults, of which the northern one forms the contact zone having a considerable displacement between two major lithologic groups. This has created a pronounced NNW trending extensional fault set, forming dilational settings across the property between these faults. The dilational zones provided the sites for subsequent Mid-Cretaceous dike emplacement and abundant associated hydrothermal veining. These faults control much of the economic mineralization recognised to date. A conjugate shear fabric oriented NE-SW and E-W overprints this, suggesting subsequent emplacement. Although less dominant, it controls a significant amount of the mineralization.

The type of mineralized occurrence depends on the host lithology; however, all showings are controlled by the same mechanism of mineralized hydrothermal fluids migrating along dilatant zones related to tension faults and shear fabric into permeable and reactive stratigraphy of various lithologies. Vein occurrences are also controlled by these faults, either occurring within the fault itself, or splays and other sympathetic structures.

Hydrothermal mineralization exhibits broad spatial and temporal zoning across the property. Mineralization evolves from meso-epithermal gold-silver-base metal assemblages underlying the NW part of the Sprogge claims, through a gold-arsenic-bismuth assemblage within the Sugar Bowl, to a gold bearing sulphide-poor chalcedonic assemblage. Eastern base metal and arsenic enriched zones are controlled by the NNW trending structures, suggesting earlier emplacement along highly permeable structural corridors. Chalcedonic veining overprints quartz-arsenic veining within the eastern Justin claims.

The Tuna Creek Stock, part of the Tombstone Suite, occurs roughly 12 kilometres to the NW. Associated copper, molybdenum and tungsten mineralization is typical of proximal or intrusive hosted mineralization. A radial mineral zonation caused by emplacement from increasingly evolved hydrothermal fluids commonly surrounds such stocks.

Mineralization underlying the Sprogge Property appears to be related to a magmatic-hydrothermal system centered on Tuna Creek Stock.

Structural development would have to precede dike emplacement of the Tombstone Suite. The latter may have been emplaced during late stages of regional tectonic activity responsible for earlier faulting.

A rough structural and emplacement history may be summarised as follows: 1) development of district scale NW-SE trending transcurrent faulting and extensional faulting, resulting from regional tectonic activity, creating channels for reactive fluids within clastic and calcareous rocks; 2) emplacement of quartz-monzonite dikes related to the Tombstone Suite; 3) creation of a conjugate set of shear fabric and faulting, creating fracture porosity and permeability in clastic rocks; and 4) emplacement of hydrothermal mineralization derived from, or reactivated by, emplacement of the Tombstone Suite along the dikes, dilational structures, and conjugate shear fabric.

3.5 Geochemistry

The geochemical signature of the Sprogge Project is fairly typical of high level hydrothermal gold systems. Mineralization west of the Justin claims was found by exploration of territory upstream of a NW trending set of coincident gold, arsenic, mercury and antimony anomalies from RGS silt sampling.

3.5.2 Rock Sampling

3.5.2.1 Sprogge Claims

Results of 32 element and gold analysis of rock sampling from the Sprogge claims show a very strong, fairly variable correlation of gold and arsenic. Ratios are difficult to determine because arsenic content often exceeds upper detection limits; however gold values greater than 1.0 gpt Au are usually accompanied by greater than 1% arsenic. A very strong gold-bismuth correlation exists, particularly within the Sugar Bowl. Mercury does not always show a direct correlation with gold, mercury content appears highest when associated with only weakly anomalous gold values, or when accompanied by elevated lead and zinc concentrations. It is often, but not always, associated with high arsenic values. This suggests a zonation pattern in which mercury is associated with the mineralizing system, but not necessarily directly with gold. Antimony appears to have a direct correlation with gold and arsenic, particularly when associated with base metals.

3.5.2.2 Justin Claims

Gold and pathfinder associations are more variable across the Justin claims. A strong gold-arsenic correlation occurs within the Kangas and Hodder Hill Zones, but the Main Skarn and Confluence Zones have a very weak arsenic signature. Bismuth is strongly correlative with gold within the Kangas and Main Skarn Zones, but shows no correlation with gold in the Confluence and Hodder Hill Zones. Mercury values were weakly anomalous only within the Hodder Hill Area and parts of the north flank. Antimony values were moderately elevated within the Kangas and Hodder Hill Zones. Elevated lead occurs only within the Hodder Hill Area.

3.5.3 Soil Geochemistry

3.5.3.1 Sprogge Grid

Soil sampling has been done at 25metre station spacing and 100metre line spacing across most of the gridded area overlying the Sprogge claims. Sample traverses also extend outside of, and across remote sections of the grid.

Results indicate similar gold and pathfinder correlations to those returned from rock sampling. Anomalous gold values are usually associated with strongly elevated arsenic values, although values returned from eastern portions of the Ridge Zone are associated with only weakly elevated arsenic. A strong gold-bismuth correlation was returned from sampling overlying the north flank of the Ridge Zone, the Swagman Zone, and the eastern dike. Otherwise, largely background bismuth values were returned, even from strongly anomalous gold zones; this may partially reflect transportability and dispersability of bismuth. Mercury values are generally low, with weak anomalies overlying only the south-central areas of the Sugar Bowl. Generally background antimony values were returned, with a weak anomaly extending from the Swagman Zone.

Soil geochemical analysis shows that a zonation of pathfinder elements exists. Arsenic and bismuth are the most reliable direct pathfinders, although a gold-bismuth zonation may exist. Mercury and antimony prove less reliable, possibly due to dispersion behaviour of these elements.

The coarse clastic units possess much stronger gold and pathfinder signatures than fine clastic sediments. The elevated values overlying the Ridge Zone may partially reflect ease of mechanical liberation of these elements from the fractured and jointed units, and that these samples are mostly of talus fines. A "soil sample" refers to a sample obtained from actual soil development overlying bedrock, where metals may leach from bedrock into the soil. A "talus fine" sample consists of fine rock fragments derived from areas of barren outcrop or rubblecrop. To date, significant gold values in rock were returned mostly from fracture controlled mineralization. However, it seems unlikely such widespread elevated levels in soil could be returned from merely weakly anomalous source rock with some quartz veining.

The mineralized phyllitic units possess much more subdued gold and pathfinder geochemical anomalies. A soil sample taken directly from the Meadows Zone returned background gold values. Moderately elevated values were returned from veining underlying lower elevations, often near the dikes. This suggests that fine clastic sediments do not readily liberate mineralization, and that weak anomalies may signify significant mineralization.

The dikes appear to possess fairly strong gold and pathfinder geochemical anomalies. The east dike along the eastern ridge possesses particularly elevated gold and arsenic values, not explainable by the low trench assay results.

3.5.3.2 Justin Grid

Soil sampling has been done at 50metre station spacing and 200metre line spacing along a grid covering most of the Justin claims. An area extending east from the Main Skarn to the Confluence Zone was sampled at 25metre station spacing and 100metre line spacing; the ridgetop was sampled at 25metre stations also. Most samples obtained south of the central ridge were of soil, whereas most obtained to the north were of talus fines.

Results again show a strong, variable correlation between gold and arsenic. Anomalous areas of both elements are more subdued than those of the Sprogge, partly due to valley till overlying much of the southern area. Weakly anomalous gold zones are associated with the Main Skarn, the Kangas Zone, and a N-S trending corridor between them. Strongly elevated bismuth values are associated with gold and arsenic anomalies along and south of the Kangas Zone, with weak anomalies associated with the Main Skarn. Mercury values are generally low, and sporadic

single station antimony values occur associated with elevated gold-arsenic values. Two coincident lead-zinc anomalies probably correspond to local base metal enriched veining.

A similar relationship of gold and pathfinder element signatures belonging to coarse clastic and fine clastic sediments respectively exists within the Justin claims. However, anomalies are much more subdued. Much of the sampled area along the north flank of the ridge is covered by talus, possibly masking the anomalies. Most of the valley floor of Sun Creek and South Sun Creek is covered by thin to moderate depths of valley till (ice direction is from west to east) thus masking or blurring anomalies. Mineralized zones, although potentially broad, return much lower gold values than those underlying the Sugar Bowl, which may be reflected by lower gold in soil values.

A gold value of 260 ppb was returned from soil sampling of bank material of South Sun Creek. This may signify that exposed areas have stronger metal signatures, or that the sample is of stream silt material, suggesting significant upstream mineralization.

3.6 Characteristics of Mineralized Zones

The eleven zones of significant mineralization in order of importance are: 1) Meadows Zone, 2) Main Skarn, 3) Confluence Zone, 4) Ridge Zone, 5) Kangas Zone, 6) Neebing Zone, 7) Warren Zone, 8) Swagman Zone, 9) Sheila Zone, 10) Hodder Hill Area, and 11) Matilda Vein. The location of these zones are best shown on the 1:20,000 compilation map (Plate 1):

3.6.1 Meadows Zone

The Meadows Zone extends E-W across the ridge marking the west boundary of the Sugar Bowl. It is located at 9200W, 9800N. It consists of brittle fracture hosted quartz-arsenopyrite vein and gouge material within an E-W trending unit of almost unaltered thin bedded phyllite. Only one other similar occurrence, located along the ridge 400metres to the north, has been found. A 12.0 metre interval of chip sampling of felsenmeer containing 15-20% vein material returned 6.9 gpt Au. Trenching roughly 15metres to the west and east respectively of this interval returned 2.84 gpt Au/4.0m and 1.89 gpt Au/10.0m respectively. A composite grab of only vein material returned 21.87 gpt Au. Felsenmeer sampling roughly approximates true outcrop sampling here because of the ridgetop location. Samples of talus from this zone returned high gold values, but no further surface exploration was attempted due to the downslope dispersion of talus material. A 1.5 metre chip sample of vein and alteration material 250metres SSW of this zone returned 26.47 gpt Au. Its relationship to the Meadows Zone is uncertain.

Mineralization appears to be aligned both to the local E-W stratigraphic trend and to the E-W shear fabric. It is unclear whether mineralization is stratigraphically or structurally controlled, or both. No determination as to strike extension can be determined without drill testing due to overburden.

This zone, the foremost exploration target on the Sprogge Project, is recommended for drill testing in 1998. The ridgetop location should result in a fairly easy helicopter assisted, drill set-up.

3.6.2 Main Skarn

The Main Skarn, located in the central Justin claims (9925E, 9975N) is the only significant zone recognised prior to exploration by Mr. Kreft. Four holes drilled to test copper-gold skarn mineralization yielded only weakly anomalous values resulting in the original Sun claims being allowed to lapse. However, in 1995 exploration by Hemlo showed that a fractured, resilicified and gold mineralized quartz monzonite dike bounds the zone to the west. Successive exploration programs showed that a significantly mineralized zone extends east from roughly 6.0 metres within the

dike into strongly pyritic and pyrrhotitic limestone and calcareous phyllite. Calc-silicate mineralization consists of fine grained pervasive to fracture controlled actinolite and diopside, with minor chlorite. Trench SN97-2 extending across this zone returned 2.38gpt Au/22.5m, and anomalous values continued to the east into the previously tested mineralization. This intersection has not been tested by previous drilling. It appears that most of the Main Zone consists of this low grade peripheral mineralization, and that a significant mineralized zone occurs along the western margin and may extend northward along the dike. Mineralization appears to have been emplaced from fluids travelling from the structural corridor controlling the dike into decalcified strata within the flat lying limestone.

Trench SN97-1, excavated roughly 20metres south of SN97-2 returned low gold values within strongly pyritic and pyrrhotitic skarn mineralization. Its spatial relationship to SN97-2 remains unknown; Sun Creek, which flows between the two trenches, may occupy a structural corridor.

This target ranked second in economic potential and is recommended for drill testing in 1998. No major difficulties are anticipated for drill set-up.

3.6.3 Confluence Zone

The Confluence Zone is a broad zone measuring at least 600m x 250m of coarse clastic material with considerable fracture controlled chalcedonic veining centred at the confluence of Sun and South Sun Creeks. Veins are typically sulphide poor, and range in size from nearly microscopic to up to 2.0m in width. Rock values range from 0.42 to 7.0 gpt Au/1.5 metres. Trench SN97-3 returned 4.24 gpt Au/4.5 metres, and is open to the west; continuous channel sampling east of this intersection returned elevated values to 0.64 gpt Au. Significant gold values were returned from sampling throughout the occurrence, including proximal glacial float from the western end of known mineralization This suggests the source rock occurs up-ice further west and expanding the potential size of the showing. Fracture controlled and disseminated pyrite is abundant in surrounding wallrock.

Most elevated gold values are associated with chalcedonic veining, which locally crosscut quartz-arsenopyrite veining. This suggests mineralization resulted from late phases of hydrothermal activity.

This target ranked third in economic potential. Drill testing is recommended, partly due to moderate local topography. Also, increased trench sampling, perhaps using a "Kubota" backhoe, is recommended to extend Trench SN97-3 to the west, as well as to explore other areas of this large showing. Chip sampling and detailed prospecting and mapping across the showing is recommended.

3.6.4 Ridge Zone

The Ridge Zone is a broad gently north dipping zone of strongly altered quartz pebble conglomerate with minor greywacke and coarse sandstone underlying the ridge and south flank of the Sugar Bowl. True thickness is estimated to be at least 150 metres. Terrain is steep and rugged, causing some exploration difficulties; however, topography of peripheral regional along the ridgetop is more moderate. Quartz-arsenopyrite veining occurs along a NNW trending fault extending along the north flank of the ridge. The entire zone is at least moderately limonitic caused by oxidation of fine pyrite. The NW area along the ridge is strongly limonitic, associated with well developed fine quartz and chalcedonic veining, and an increased amount of fault controlled quartz-arsenopyrite veining. Increased barren quartz veining and limonitic alteration occurs along the NE area along the ridge.

Results of soil geochemical sampling show that a gold anomaly of >50ppb measuring 900metres x 600metres, centred along the ridge encompasses most of this zone (Bidwell and Schulze, 1996). Samples are more accurately defined as talus fines. A NNW trending corridor of values exceeding 100ppb Au, and frequently exceeding 1.0 gpt Au, extends along the fault described above. A similar zone returning values to 1.13 gpt Au overlies the NW part of the ridge zone; another overlies the NE area, and large areas of the south flank return strongly anomalous values.

Most of these anomalies have a strongly anomalous arsenic signature; however, the NE zone has only a weakly anomalous arsenic signature. To date, most high gold values from rock sampling were returned only from veins and associated wallrock mineralization, although samples of fine stockwork zones without larger veins returned anomalous values to 0.33 gpt/3.0 metres from the NW area and to 1.09 gpt/4.0 metres from the base of the north flank.

This target ranked fourth in economic potential. Drill testing is recommended for the western margin along the ridge to test strongly limonitic fine stockwork zones as well as shear hosted veins, and the eastern margin, to test areas where soil sampling returned strongly anomalous gold values with only weakly elevated arsenic. No major difficulties for drill set-up along these targets are anticipated.

3.6.5 Kangas Zone

The Kangas Zone is a N-S extending zone of skarn and replacement style mineralization within calcareous siltstone and minor limestone located along the north flank of the central ridge of the Justin claims. It extends from 11050 - 10400N, centred at 9850E. Mineralization consists of fracture controlled and replacement style nearly massive pyrrhotite and local pyrite, with minor disseminated chalcopyrite, along with fine grained diopside and actinolite. Replacement style arsenopyrite is abundant, as well as fracture controlled arsenopyrite and quartz-arsenopyrite veining. Values to 1.6 gpt Au/1.5 metres and 1.2 gpt Au/1.0 metres were returned from replacement style arsenopyrite horizons. Quartz-arsenopyrite veining returned elevated gold values, although pyrrhotitic horizons returned low values. Host stratigraphy strikes roughly ESE, and dips gently to the south, although this may become disrupted near the Sprogge Creek Fault.

Mineralization has been traced along a 400metre x 75metre N-S extending zone, grading into altered weakly calcareous phyllite to the east. The west, north, and south boundaries cannot be determined due to talus cover, although it does not extend south to the ridge line. Elevated soil (talus fine) values to 805 ppb extend along strike uphill to the south. An occurrence of similar skarn mineralization returning 1.26 gpt Au/1.5m outcrops nearby to the west, suggesting the zone may be wider than 75 metres.

The Kangas Zone is roughly along strike of the NNW trending lineation controlling Main Skarn mineralization. The Kangas Zone may be quite thick, with somewhat discontinuous mineralization occurring across at least 150m of true width. It stratigraphically overlies an interpreted northward extension of stratigraphy hosting the Main Skarn. However, it is close enough that similarly reactive stratigraphy within both zones may be affected by a single mineralizing event. Strata encompassing both showings may be regarded as a single mineralized horizon. The two zones may represent exposures of a significant thick zone of skarn and replacement style mineralization controlled by the NNW trending lineament, within the broad N-S structural zone outlined on the Justin compilation map.

The Kangas Zone ranked fifth in economic potential, partly because of the possibility that it may be an extension of the main skarn zone. If funds permit, drill testing of this zone may be warranted. Detailed mapping and prospecting are also recommended.

3.6.6 Neebing Zone

The Neebing Zone, located 3.5 kilometres west of the Main Skarn, was recognised from reconnaissance exploration, and is not well understood. It occurs as a broad quartz-arsenopyrite-galena stringer system within coarse clastic sediments along the east side of the Neebing Fault, within a broad lineament. Gold values including 2.0 gpt Au and 1.69 gpt Au were returned. A strongly pyritic breccia zone occurs along a stream drainage controlled by the fault. Pronounced ferricrete occurrences extend along the east side, but are overlain by deep glacial till.

Silt sampling of the stream described above returned 145 ppb Au; nearby sampling of other streams flowing across a northward projection of this zone returned 250 ppb Au and 30 ppb Au respectively. No exploration was conducted south of the zone along the fault.

This target ranked sixth in economic potential. Detailed mapping, prospecting and trenching of areas of known mineralization is recommended

3.6.7 Warren Zone

The Warren Zone, located roughly 2.0 kilometres NW of the Sugar Bowl, was discovered in 1996 from reconnaissance work. The zone was identified from abundant rubblecrop of quartz-arsenopyrite vein material, as well as strongly mineralised fractured and silicified coarse clastic sediments. Samples were collected along a 300 metre section of a NNW trending swath of rubblecrop occurrences within a broad package of weakly to moderately altered coarse clastics. Sampling results showed a markedly increased silver, lead and zinc content, up to 1.8 gpt Au, 149 gpt Ag, and 7.68% Pb. This suggests spatial hydrothermal mineral zonation across the property.

This zone ranked seventh in economic potential and is significant because it represents a NW extension of potentially significant mineralization. Recommendations for work across this zone include grid establishment, perhaps as an extension from the Sugar Bowl grid. Detailed mapping to determine local stratigraphy, prospecting and possible hand trenching is also recommended.

3.6.8 Swagman Zone

The Swagman Zone is centred at 10250E, 8700N, somewhat east of the central dike just SE of the Sugar Bowl. It consists of irregular quartz-arsenopyrite veining and associated wallrock alteration within coarse clastic sediments. Veins are commonly 0.2-0.4 metres wide, and a mineralized zone composed largely of vein material returned 9.55 gpt/4.0 metres. Fairly abundant veining returning up to 2.1 gpt Au extends considerably to the east; similar veining returning up to 11.6 gpt Au extends beyond the central dike to the west. However, the irregular vein setting of mineralization results in somewhat limited economic potential for this zone.

This zone ranked eighth in economic potential. Some further detailed mapping and prospecting is recommended, particularly to the SE of this zone. Trenching and chip sampling of pertinent zones are recommended.

3.6.9 Sheila Zone

The Sheila Zone is a zone of quartz-arsenopyrite mineralization extending N-S for at least 400metres x 50metres, along the central dike underlying part of the eastern Sugar Bowl. It is centred at 10225E, and extends from roughly 9350N to 9750N. Vein material consistently returned multi-gram gold values to 15.0 gpt, although dike material returned low values.

This zone ranked ninth in economic potential. The 1998 field program will include hand trenching across the central dike.

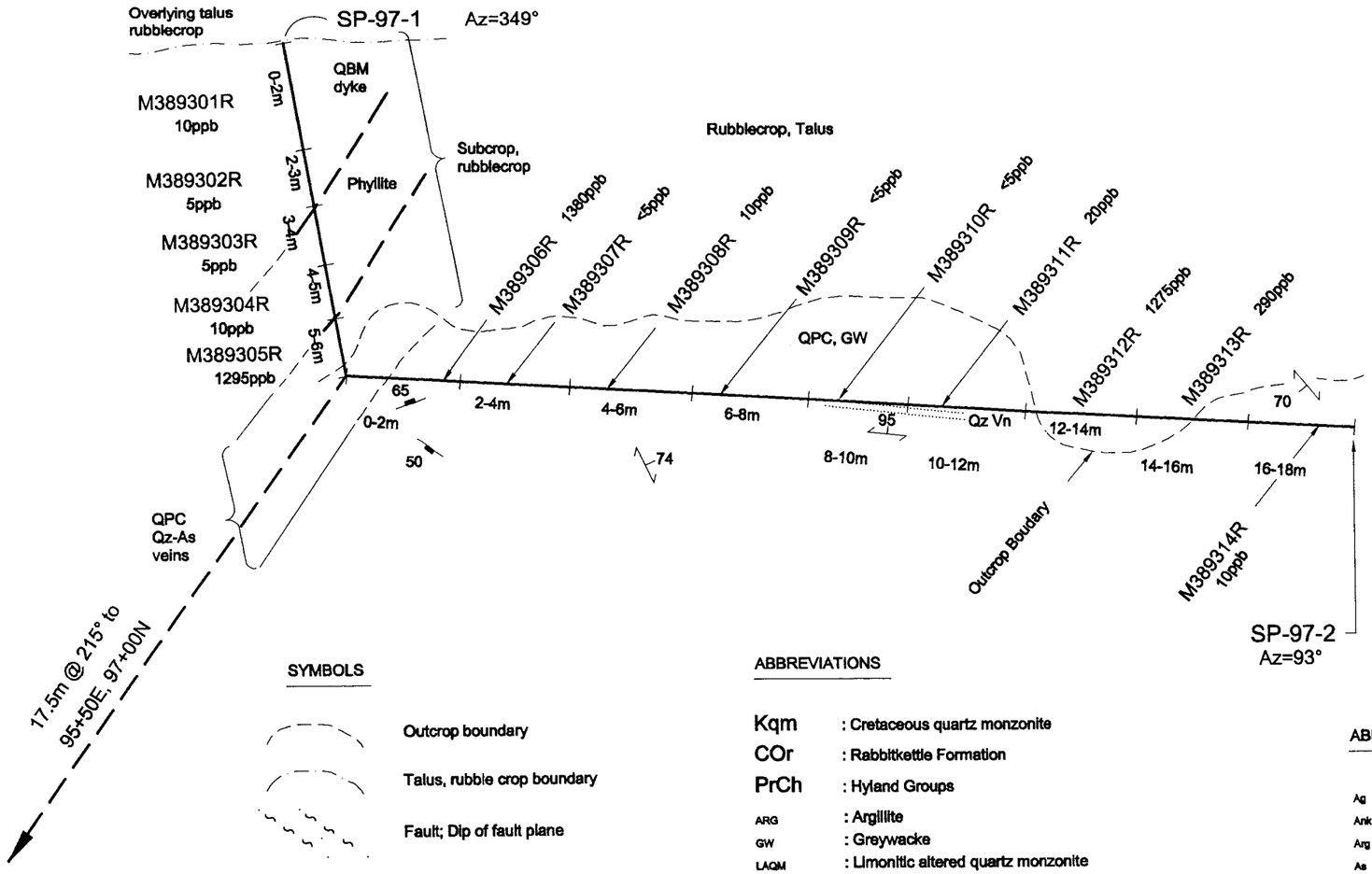
3.6.10 Hodder Hill Area

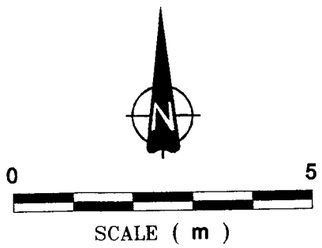
The Hodder Hill area is located roughly 0.5 kilometres south of the southeast part of the Justin claims. The area is underlain by a broad package of weakly to moderately altered quartz pebble conglomerate. Fine fracture controlled quartz-arsenopyrite vein and stringer mineralization occurs across a 250 metres long swath of talus along the NW flank of the hill, associated with elevated gold in soil values. Values up to 1.0 gpt Au were returned from composite grab samples of talus. A value of 0.78 gpt Au was returned from sparse mineralized talus roughly 400 metres to the ENE.

The area ranks tenth in economic potential. No high-grade samples have been obtained to date; however, potential exists for mineralization to extend further east. Proposed work includes reconnaissance traversing, mapping and prospecting along and beyond the eastern flank of the hill is recommended.

3.6.11 Matilda Vein

The Matilda Vein is an ENE trending vein extending across a coarse clastic unit located at 9325E, 9575N, roughly 250 metres ESE of the Meadows Zone. The vein is roughly 0.3 metres wide, within a 1.0m wide alteration zone. Values to 23.8 gpt Au were returned from the vein; values to 33 gpt Au were returned from nearby talus, although its relationship to the vein cannot be confirmed. This vein extends across the southern adjacent coarse clastic unit to the phyllite hosting the Meadows Zone. The vein may be a splay of Meadows Zone veining, and may contribute to potential bulk tonnage mineralization. The Matilda Vein alone is a target of limited economic potential. This area ranks eleventh in economic potential and further mapping and sampling are recommended.





SYMBOLS

- Outcrop boundary
- Talus, rubble crop boundary
- Fault; Dip of fault plane
- Strike + Dip of Bedding
- Strike + Dip of Foliation
- Strike + Dip of Joint Plane
- Strike + Dip of Vein
- Geologic Contact
- Trace of Trench
- Quartz Vein
- Grid Reference
- M389304R — Trench Sample
- 10ppb — Au Value
- 5.64gpt — Au Value

ABBREVIATIONS

Kqm	: Cretaceous quartz monzonite
COr	: Rabbitkettle Formation
PrCh	: Hyland Groups
ARG	: Argillite
GW	: Greywacke
LAQM	: Limonitic altered quartz monzonite
LQBM	: Limonitic quartz biotite monzonite
LST	: Limestone
PHY	: Phyllite
QBM	: Quartz Biotite Monzonite
QDR	: Quartz Diorite
QFPC	: Quartz feldspar pebble conglomerate
QM	: Quartz Monzonite
QPC	: Quartz pebble conglometate
QPM	: Quartz porphyritic monozonite
SLST	: Silty Limestone
SLT	: Siltstone
SH	: Shale
SS	: Sandstone

ABBREVIATIONS

Ag	: Silver
Ank	: Ankerite
Arg	: Argillic alteration
As	: Arsenopyrite
Au	: Gold
alt	: Alteration
Calc	: Carbonaceous alteration
Carb	: Calcareous
Chdy	: Chalcedony
Chl	: Chlorite
Cont	: Continuous
Cpy	: Chalcopyrite
Ga	: Galena
graph	: graphite
Hfels	: Hornfels
lim	: limonite
loc	: location
o/c	: outcrop
sil	: silicified
Pb	: Lead
Po	: Pyrrhotite
Py	: Pyrite
Qz	: Quartz
rcrop	: Rubble Crop
Scor	: Scorodite
Sk	: Stockwork
Sn	: Skarn
tr	: Trace

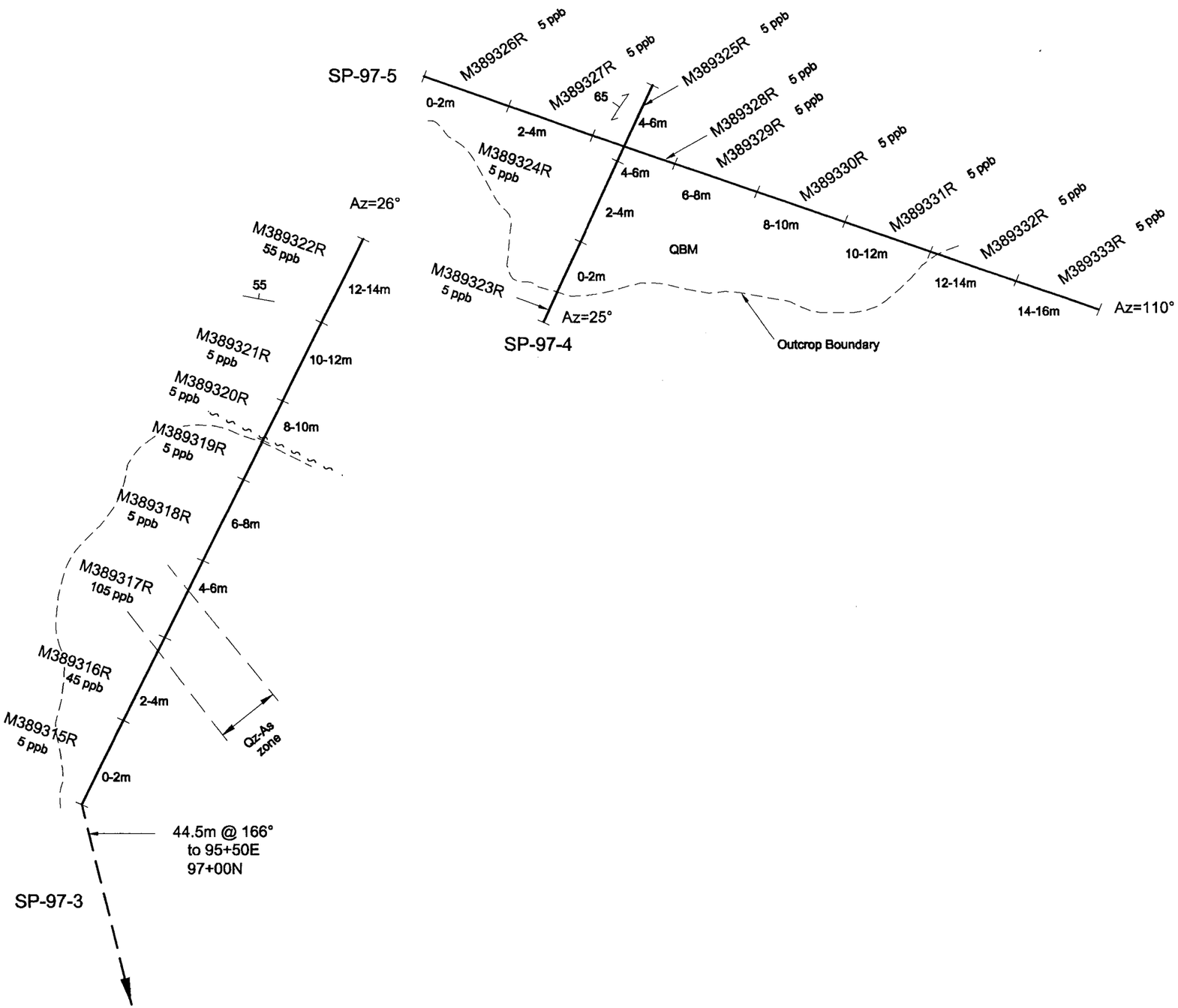
NOTE: PLEASE REFER TO THIS LEGEND FOR THE FOLLOWING FIGURES

VICEROY INTERNATIONAL EXPLORATION

TRENCH SKETCH MAP
TRENCHES SP-97-1, SP-97-2
SPROGGE CLAIMS
SPROGGE PROJECT

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NOTE: PLEASE REFER TO LEGEND ON FIGURE 6

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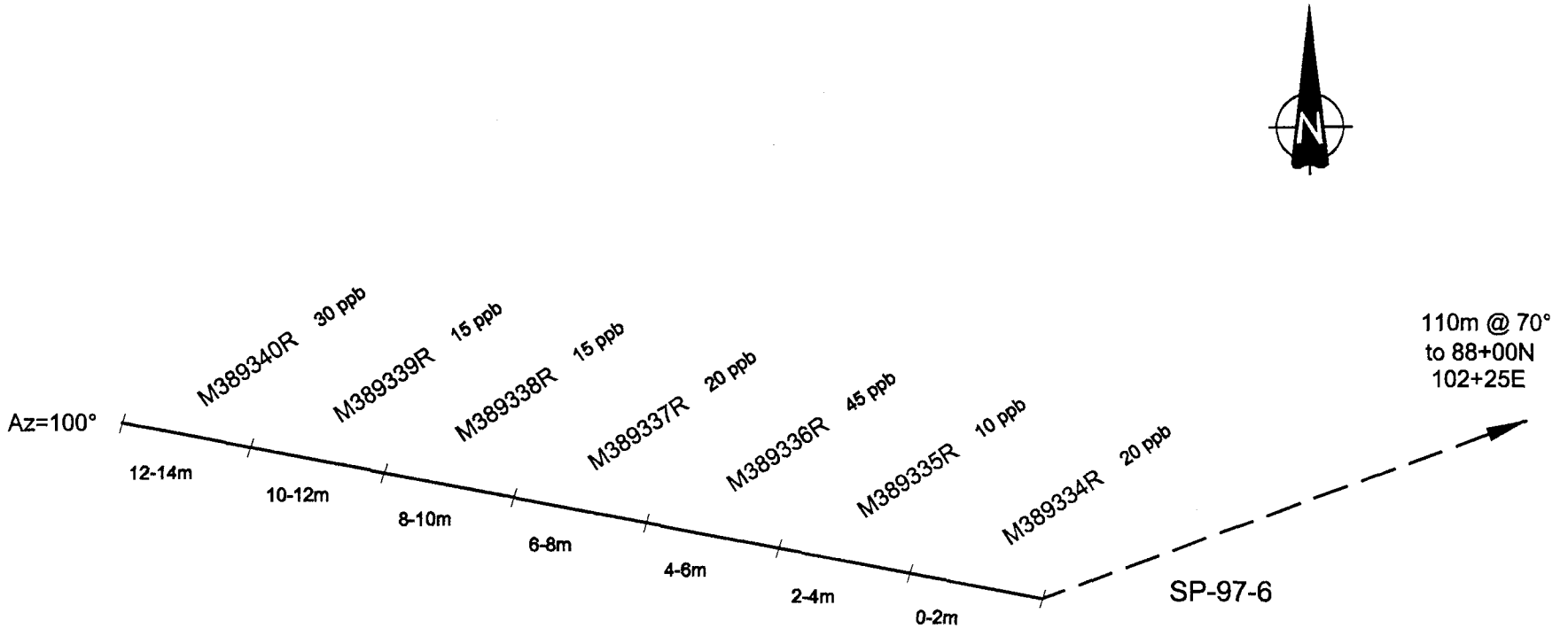
VICEROY INTERNATIONAL EXPLORATION

TRENCH SKETCH MAP
TRENCHES SP-97-3, SP-97-4, SP-97-5
SPROGGE CLAIMS
SPROGGE PROJECT

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QBM - rcrop
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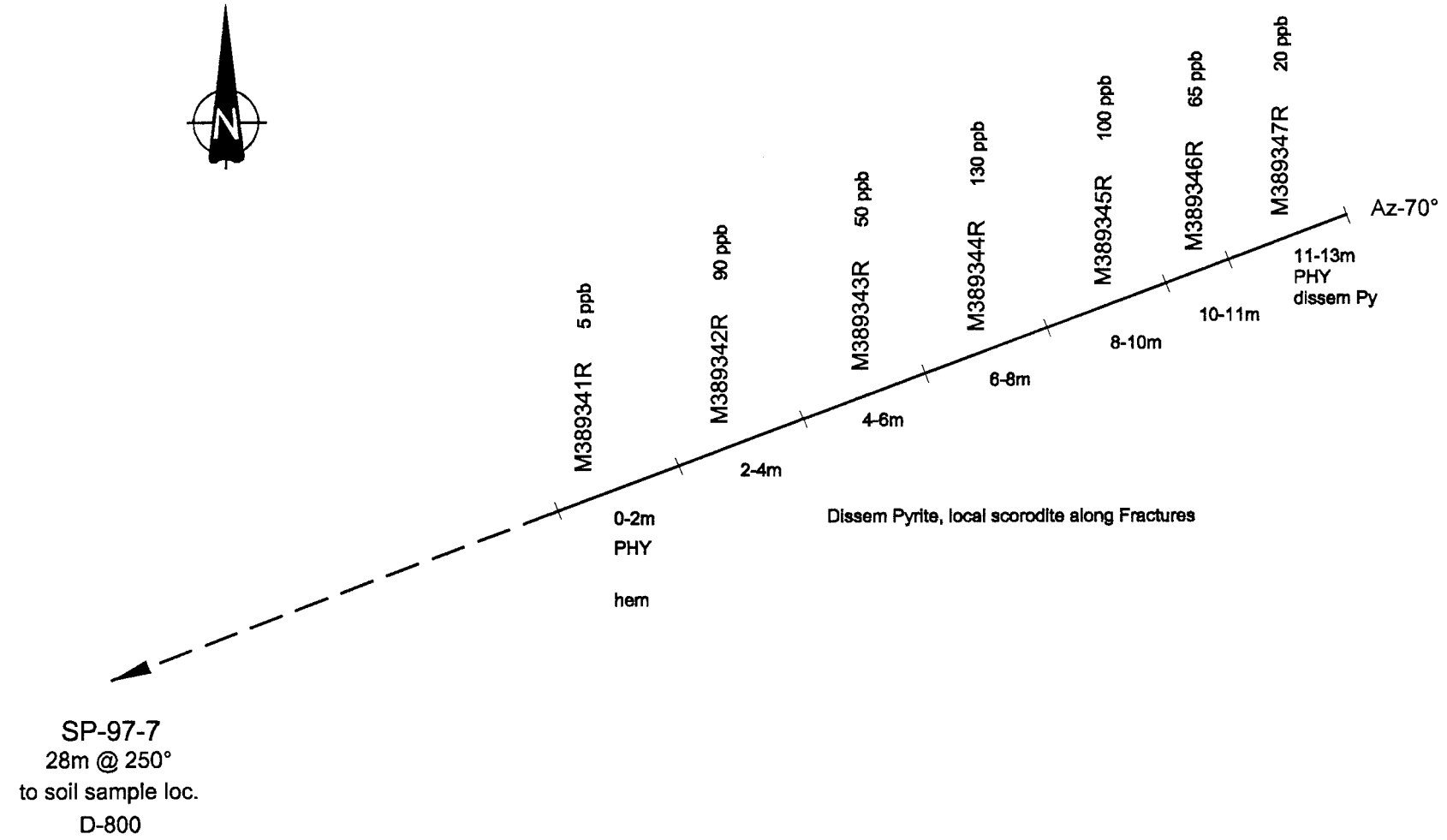
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TRENCH SP-97-6 SKETCH MAP
SPROGGE CLAIMS
SPROGGE PROJECT

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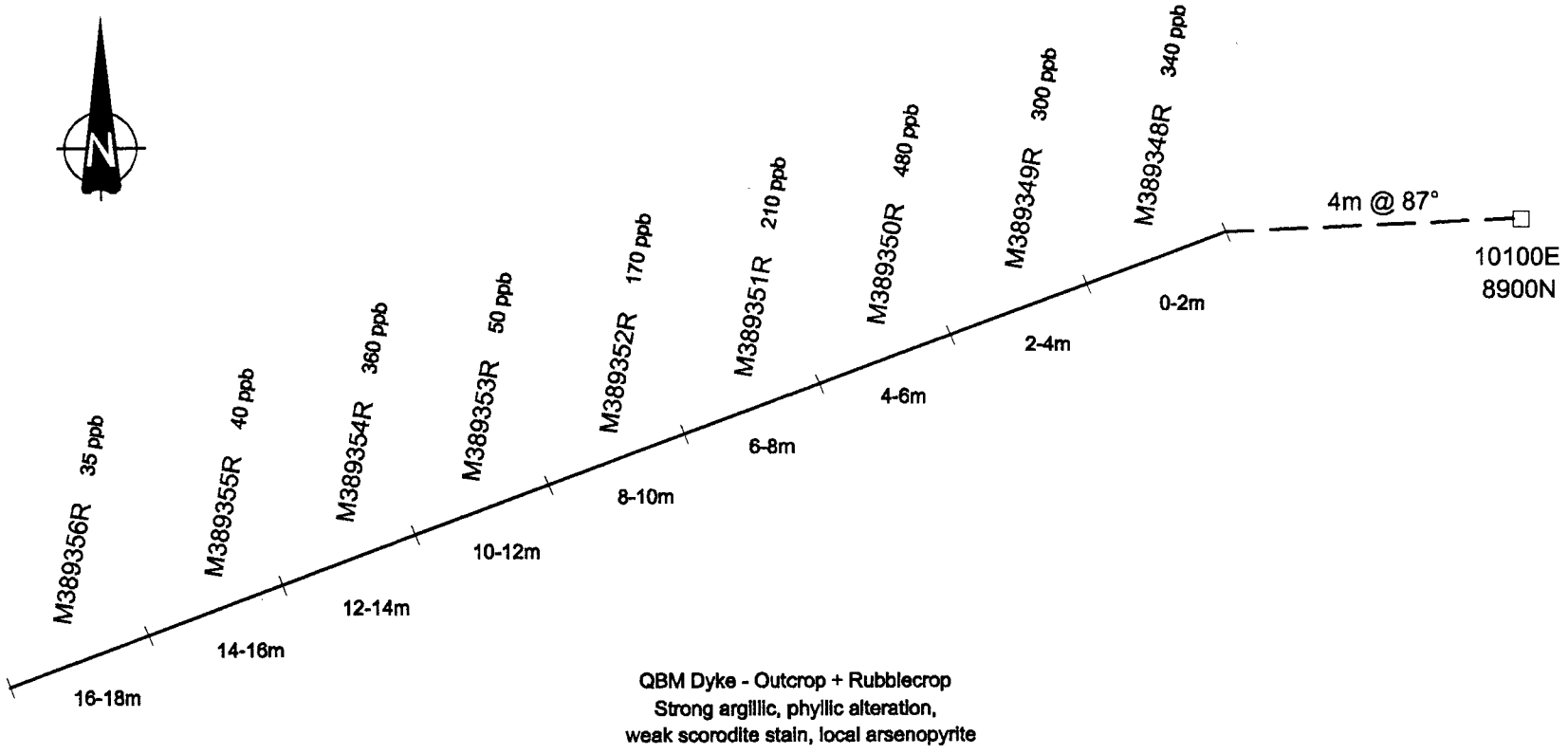
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VICEROY
INTERNATIONAL EXPLORATION

TRENCH SP-97-7 SKETCH MAP
SPROGGE CLAIMS
SPROGGE PROJECT

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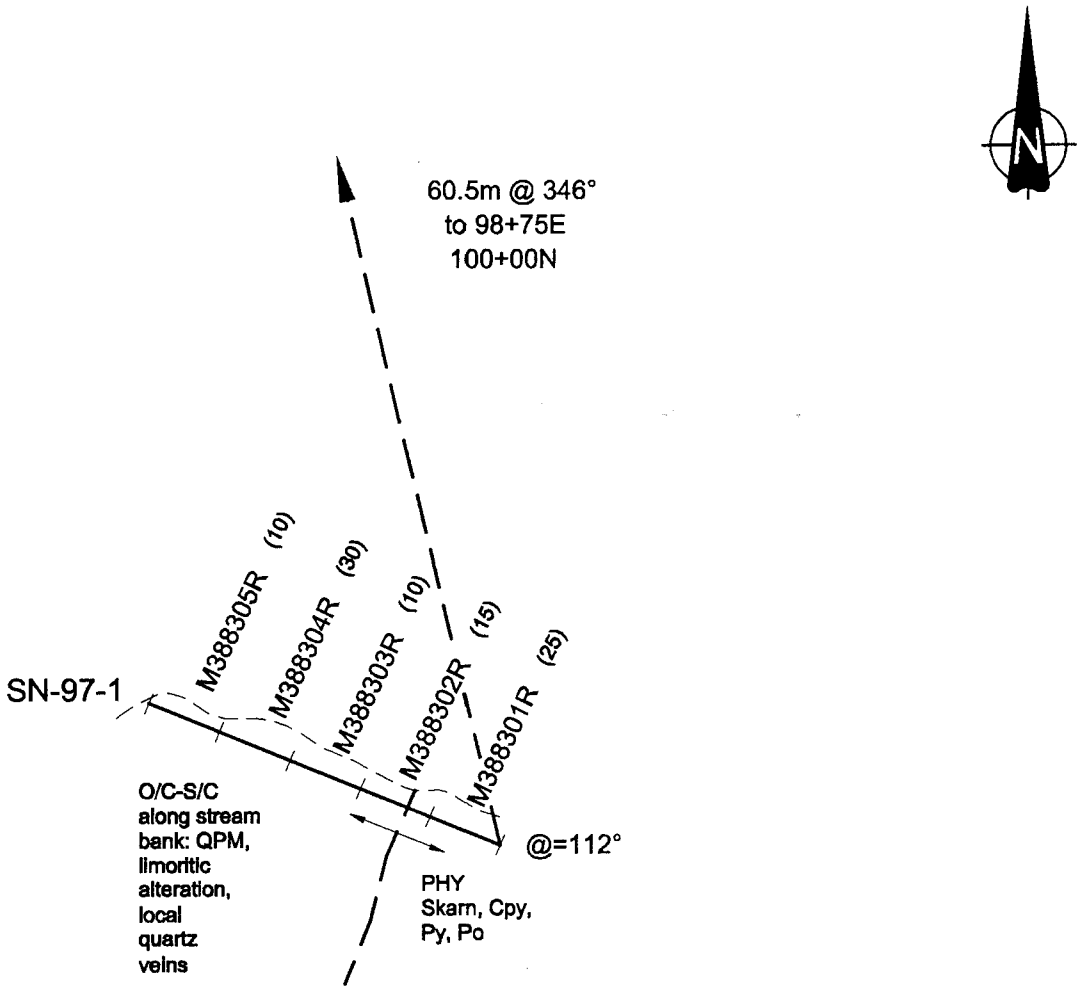
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INTERNATIONAL EXPLORATION

TRENCH SP-97-8 SKETCH MAP
SPROGGE CLAIMS
SPROGGE PROJECT

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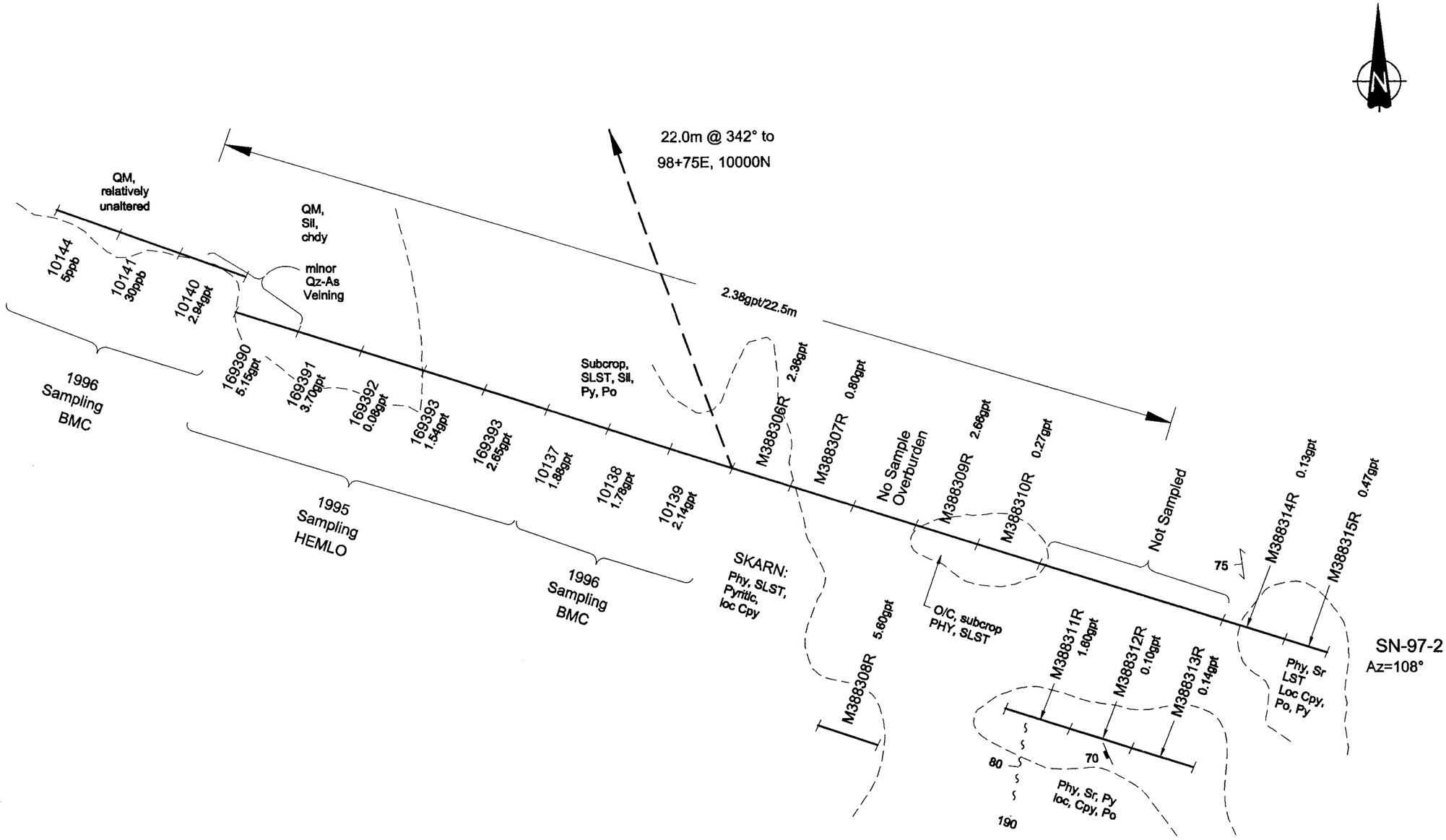
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VICEROY
INTERNATIONAL EXPLORATION

TRENCH SN-97-1 SKETCH MAP
JUSTIN CLAIMS
SPROGGE PROJECT

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NOTE: PLEASE REFER TO LEGEND ON FIGURE 6

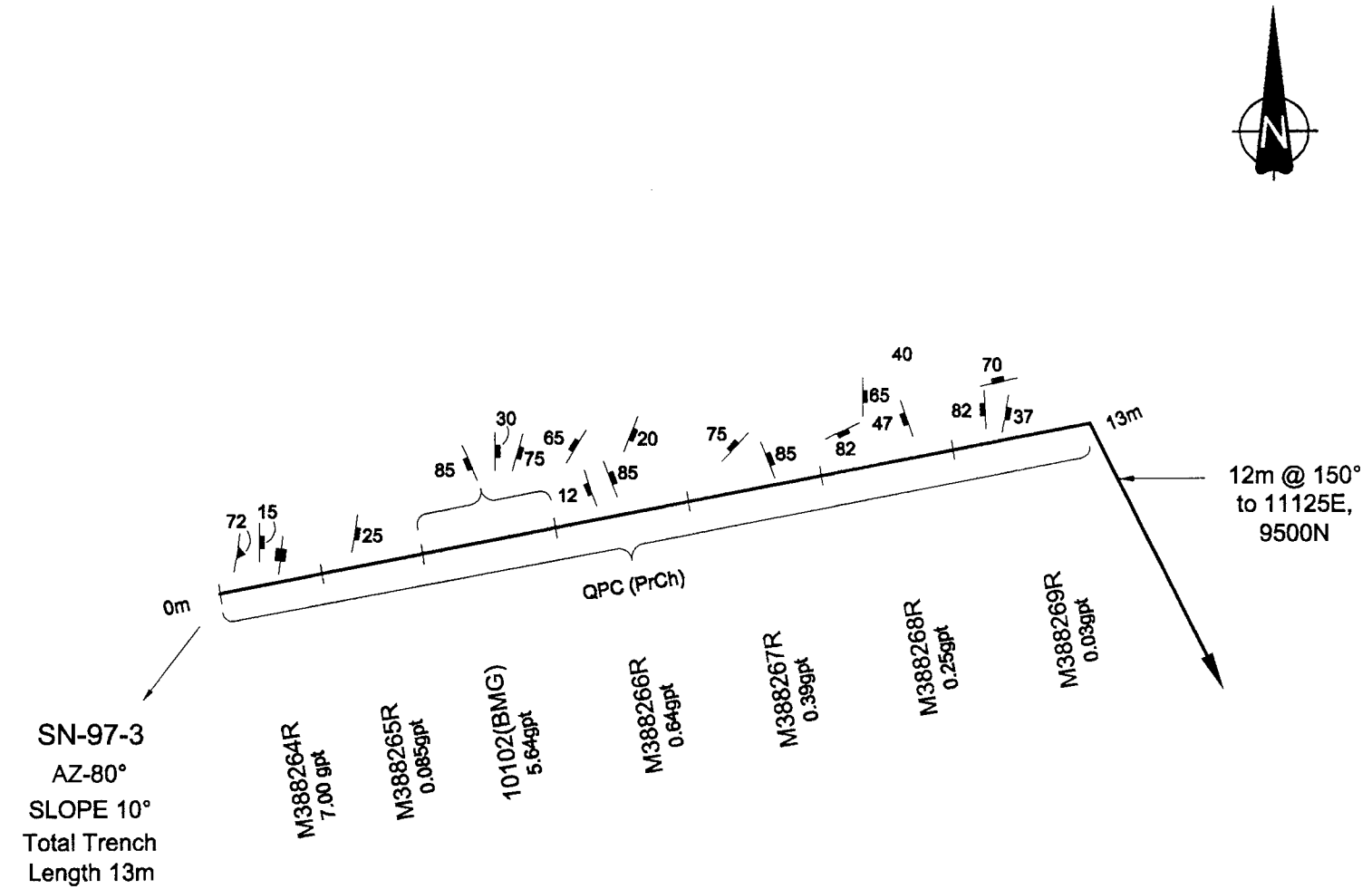
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VICEROY INTERNATIONAL EXPLORATION	TRENCH SN-97-2 SKETCH MAP JUSTIN CLAIMS SPROGGE PROJECT	DRAWN BY: N.T.	SCALE: 1:100
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		DATE: JAN-24-97	FIGURE: 12

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NOTE: PLEASE REFER TO LEGEND ON FIGURE 6

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VICEROY
INTERNATIONAL EXPLORATION

TRENCH SN-97-3 SKETCH MAP
JUSTIN CLAIMS
SPROGGE PROJECT

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DATE:	JAN-23-98	FIGURE:	13

CHAPTER FOUR: CONCLUSION

Despite a late summer start-up date and a limited program restricted to surface exploration and trenching, the 1997 Program succeeded in defining stratigraphic and structural setting of underlying terrane, the relationship of mineralization to these parameters, and the delineation of several new mineralized zones.

Three major mineralogical settings have been identified: 1) fracture controlled quartz-arsenopyrite mineralization, including dike hosted mineralization; 2) skarn mineralization within the limestone members; and 3) coarse clastic sediment hosted mineralization. Significant grades from fracture controlled mineralization include: 6.9 gpt Au/12.0 metres (Meadows Zone), 9.55 gpt Au/4.0 metres (Swagman Zone), and abundant grab and localized chip sampling returning values to 34.8 gpt Au. Coarse slastic sediment hosted mineralization, with some veining, has returned values of 26.4 gpt Au/1.5metres, 4.24 gpt Au/4.5 metres (Confluence Zone), aand up to 6.7 gpt Au from grab samples. Trenching of skarn mineralization has returned 2.38 gpt Au/22.5 metres (Main Skarn) and 1.6 gpt Au/1.5 metres (Kangas Zone).

Mineralization is believed to be controlled by two major structural events: 1) a NNW trending extensional fault set within two NW trending transcurrent faults bounding the property to the north and south, and; 2) a later-stage establishment of a NE-SW and E-W set of conjugate shearing. Tombstone Suite quartz monzonite dikes were emplaced within dilational settings formed along the extensional faults. Mineralization was emplaced by subsequent mobilisation of hydrothermal fluids along these structural fabrics. The type of mineralized setting is controlled by the host lithology resulting in several different settings derived from a single long lived and widespread mineralizing mechanism.

A zonation extending from base metal enriched to chalcedonic mineralization extends from NW to SE with increasing distance from the Tuna Creek Stock, and suggests that the Sprogge Project may be at the ideal distance from the stock to maximise potential for hosting hydrothermal gold mineralization. Gold mineralization in the Sprogge area may be related spatially to a magmatic-hydrothermal system centred on the Tuna Creek Stock.

Three new mineralised zones were outlined: the Kangas Zone underlying the Justin claims, the Warren Zone NW of the Sugar Bowl, and the Hodder Hill Area, SE of the Justin claims. These considerably increase the extent of known mineralization, and suggest intermediate areas between the Sprogge and Justin claims have significant potential to host similar zones.

As a result of these discoveries, 160 new quartz mining claims, consisting of the SNOW 26-101 claims and the SPROGGE 75-158 claims, extending between the SNOW claims and the SPROGGE 1-74 claims, were staked. The present claim block covers all territory extending between the transcurrent faults and encompasses all known mineralised zones.

CHAPTER FIVE: RECOMMENDATIONS

The 1998 exploration program is proposed to include three major objectives: 1) drill testing of known mineralized zones having greatest economic potential; 2) detailed exploration, including trench sampling, of newly discovered or poorly understood zones; and 3) reconnaissance and some detailed exploration of areas outside of the Justin claims and the Sugar Bowl area, including grid establishment and systematic soil and rock sampling of select areas. Some reconnaissance traversing SE of the property and east of the Tuna Creek Stock is also planned.

Drilling is recommended for the following targets in 1998, in decreasing order of importance: 1) Meadows Zone, 2) Main Skarn, 3) Confluence Zone, 4) Ridge Zone, and 5) Kangas Zone. Helicopter support and pad construction will be necessary for a drill program, due to steep terrain, although topography of the Main and Confluence Zones is fairly gentle. Topography along the ridgetop should be amenable to pad construction. A detailed drill proposal will be completed at a later date.

Detailed exploration including trenching of pertinent areas is planned for the Neebing Zone, as well as the extensions of the Neebing Fault, particularly to the north, and territory to the NE, where silt sampling of drainages have returned values to 250 ppb. Work would consist of establishment of a flagged and picketed grid, tied into existing control, with systematic soil sampling, rock sampling and geologic mapping. Similar work is planned for the Warren Zone, to test possible extension of significant mineralization to the NW. More detailed channel sampling and possible trenching are planned for the Sheila and Swagman Zones, to test mineral potential of dike associated veining. Detailed exploration is also planned for areas NW and south of the Justin claims, and areas southeast of the Sugar Bowl.

Reconnaissance exploration, including soil and rock sampling, will be conducted across all areas of the project not subject to existing or proposed detailed exploration. Also, traversing is planned for areas along, and southeast of the east flank of Hodder Hill, to test continuation of the transcurrent fault system to the SE. Traversing to test for mineralization along a radial pattern 5 - 10 km from the Tuna Creek Stock is also considered.

Exploration expenditures are tentatively set at $300,000 U.S. This will be roughly allocated as follows: 1) 60% for drilling, 2) 25% for detailed surface exploration, including trenching, and 3) 15% for reconnaissance work. A detailed exploration proposal will be submitted following final budget approval. Exploration may begin in late June with Phase I, a pre-drill phase consisting of detailed and reconnaissance work, involving three geologists and three field technicians. This will be followed by Phase II, the drill program, which will require a maximum of two geologists and two technicians. Some overlap of phases may occur. The exploration program should be completed by late August. Field season in this area extends until mid-September.

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STATEMENT OF QUALIFICATIONS

I, Carl M. Schulze, of the City of Whitehorse, Yukon Territory, Canada, do hereby certify that:

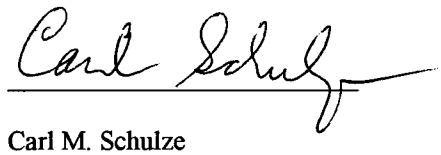
1) I have held the position of Senior Exploration Geologist with Viceroy International Exploration since 1996.

2) I graduated from Lakehead University with a Bachelor of Science Degree in Geology in 1984.

3) I have been continually active in mineral exploration since 1984.

4) I supervised the exploration program and performed part of the work described in this report.

5) I am currently vice-president of the Yukon Chamber of Mines and a member of the Yukon Prospectors' Association



Carl M. Schulze
Senior Project Geologist
Viceroy International Exploration

1997 GEOLOGICAL, GEOCHEMICAL AND TRENCHING REPORT ON THE SPROGGE 1-74 AND JUSTIN 1-25 CLAIMS

093783

Volume 2



March 18, 1998

Watson Lake Mining District
N.T.S. 105 H/09

Latitude: 61°42' North
Longitude: 128°10' West

Owner: Battle Mountain Canada Ltd.

Author: Carl M. Schulze

Date of work: August and September 1997

APPENDIX 1

APPLICABLE EXPENDITURES FOR ASSESSMENT CREDITS

Sprogge Project Expenditures			
Sprogge 1-74 Claims			
Description	Expenditure		
Labor	$	10,144	
Helicopter	$	6,237	
Rock Sampling	$	3,820	
Soil Sampling	$	3,860	
Silt Sampling	$	20	
Camp Cost*	$	1,792	
	$	**25,873**	**Total**
Justin 1-25 Claims			
Description	Expenditure		
Labor	$	7,872	
Helicopter	$	9,920	
Rock Sampling	$	1,640	
Soil Sampling	$	4,100	
Camp Cost*	$	1,792	
	$	**25,324**	**Total**

APPENDIX 1A

TOTAL 1997 SPROGGE PROJECT VIE EXPLORATION EXPENDITURES

Viceroy Int'l Exploration, Inc
Exploration Expenditures in US$
For the Period Ending 12/31/1997
Sprogge

6
1 '98 12:00pm

Current Period			Description	Year-to-Date		
a'	Budget	Variance		Actual	Budget	Variance
			LAND MANAGEMENT			
0	0	0	LM-Vendor Property Maintenance	7242	0	-7242
0	0	0	LM-Consulting Fee & Expense	10429	0	-10429
0	0	0	Sub-Total	17671	0	-17671
			ADMINISTRATION			
0	0	0	Admin-Salaries & Benefits	306	0	-306
0	0	0	Sub-Total	306	0	-306
			FIELD PROGRAM			
1683	0	-1683	FP-Salaries & Benefits	15962	0	-15962
0	0	0	FP-Camp Installation & Oprtion	1287	0	-1287
0	0	0	FP-Camp Inst & Oper-Fld Meals	69	0	-69
0	0	0	FP-Cmp Inst & Oper-Fld Lodging	968	0	-968
0	0	0	FP-Transporation-Field Vehcles	257	0	-257
0	0	0	FP-Transporation-Helicopter	22970	0	-22970
0	0	0	FP-Field Equip & Supp/RC Drill	73	0	-73
0	0	0	FP-Fld Equip & Supp/General	27	0	-27
0	0	0	FP-Assay/Geochem RK Soil Gechm	9380	0	-9380
1683	0	-1683	Sub-Total	50993	0	-50993
1683	0	-1683	SUB-TOTAL BEFORE MGMT FEES	68970	0	-68970
169	0	-169	Management Fees	6897	0	-6897
1852	0	-1852		75867	0	-75867

BEST ATTAINABLE
IMA

Appendix 2 & 3
Sprogge Claim Area Rock, Soil & Silt Data

093783

Appendix 2
Sprogge Claim Area Rock Data

Rock Sample Description Sheet

Sample	X_Coord	Y_Coord	Z_Coord	Traverse	Zone	Type	Width_m	Desc	Fm	Lithology	odifier	Colour	Carb	Silicif	Alt_ARG	Alt_POT	Alt_PHY	Limonite	Mineral_1	M1_Amt	Mineral_2	M2_Amt	Mineral_3	M3_Amt	Date	Name
89251R					9	rc	5	rb	PrCh	qpc	sk	buff			A2	ph1		wk	hem	3					22/8/97	GMG
89252R					9	rc	25	oc	PrCh	qpc	sk	or		S2	A2			mod	As	tr	hem	2			22/8/97	GMG
89253R					9	rc	5	oc	PrCh	qpc	sk	buff			A2			wk	As	tr	hem	3	p	3	22/8/97	GMG
89254R					9	rc	10	rb	PrCh	phy	sk	buff			A2	ph2		mod	p	tr	As	tr	hem	4	22/8/97	GMG
89255R					9	rc	15	oc	PrCh	qpc	sk	buff		S2	A3			mod	p	3	hem	5	As	tr	24/8/97	GMG
89262R				L9800N	9	rc	10	oc	PrCh	qpc	vn	buff		S2	A2		ph2	wk	hem	tr					26/8/97	GMG
89263R				L9800N	9	rc	10	oc	PrCh	qpc	vn	buff		S2	A2		ph2	wk	hem	3					26/8/97	GMG
89264R				L9800N	9	cg		tf	PrCh	qpc	frac	buff			A3		ph1	wk	As	tr	hem	2	MnO	1	26/8/97	GMG
89265R				L9800N	9	cg	1	rb	PrCh	qpc	vn	gm							As	95					26/8/97	GMG
89266R				L9800N	9	rc	7	oc	PrCh	qpc	vn	or			A3			mod	As	tr					26/8/97	GMG
89267R				L9800N	9	rc	<.25	oc	PrCh	qpc	frac	gm			A3			wk	As	45	hem	3			26/8/97	GMG
89268R				L9800N	9	cg	5	rb	PrCh	qpc	vn	gm			A3			wk	As	100					26/8/97	GMG
89269R				L9800N	9	cg	0.5	rb	PrCh	qpc	vn	gm			A3				As	85					26/8/97	GMG
89270R					9	cg	4	tf	Kqm	laqm	frac	or			A3		ph2	mod	As	1	p	4	hem	4	27/8/97	GMG
89271R					9	cg	2	tf	Kqm	laqm	frac	wh							p	3	As	1	hem	4	27/8/97	GMG
89272R					9	cg	10	rb	PrCh	slt	frac	or	C2		A3		ph3	strg	p	2					27/8/97	GMG
89273R					9	rc	7	oc	Kqm	laqm	frac	bm		S1	A3		ph2	strg	p	6	hem	10			28/8/97	GMG
89274R					9	rc	7	oc	Kqm	laqm	frac	bm			A3		ph2	mod	p	4	hem	3			28/8/97	GMG
89275R					9	cg		tf	PrCh	qpc	vn	gm			A3				As	100					28/8/97	GMG
89276R					9	cg	10	rb	Kqm	laqm	frac	or		S2	A3		ph3	p	hem	5	p	5			28/8/97	GMG
89277R					9	cg	1	rb	Kqm	laqm	frac	or		S1	A3		ph1	strg	hem	5	p	5			28/8/97	GMG
89278R					9	cg	10	tf	Kqm	laqm	frac	or		S2	A3		ph3	strg	hem	5	As	tr	p	7	28/8/97	GMG
89301R				SP97-01	9	C	2	OC	PrCh	KQM	QBM	bm		S1	A3		Ph1	mod							23/8/97	DV
89302R				SP97-01	9	C	1	OC	PrCh	QPC	QPC	bm		S2	A3		Ph2	mod							23/8/97	DV
89303R				SP97-01	9	C	1	OC	PrCh	phy	Fol	gbm						wk							23/8/97	DV
89304R				SP97-01	9	C	1	OC	PrCh	phy	Fol	gbm			A1			mod							23/8/97	DV
89305R				SP97-01	9	C	1	OC	PrCh	QPC	Vned	obm		S2	A3			str	As	15	Py	5			23/8/97	DV
89306R				SP97-02	9	C	2	OC	PrCh	QPC	Vned	obm		S2	A3			mod	As	10	Py	2			23/8/97	DV
89307R				SP97-02	9	C	2	OC	PrCh	QPC	Frac	obm		S2	A3			mod	As	tr	Py	2			23/8/97	DV
89308R				SP97-02	9	C	2	OC	PrCh	QPC	Fol	obm		S3	A3		Ph1	mod	As	tr	Py	KI			23/8/97	DV
89309R				SP97-02	9	C	2	OC	PrCh	QPC	Fol	bm		S2	A2		Ph1	mod	As	tr	Py	tr			23/8/97	DV
89310R				SP97-02	9	C	2	OC	PrCh	QPC	Frac	bm		S3	A3			mod	Py	2					23/8/97	DV
89311R				SP97-02	9	C	2	OC	PrCh	QPC	Frac	bm		S3	A3			mod	Py	tr					23/8/97	DV
89312R				SP97-02	9	C	2	OC	PrCh	QPC	Frac	bm		S3	A3			mod	Py	<1					23/8/97	DV
89313R				SP97-02	9	C	2	OC	PrCh	QPC	Frac	obm		S3	A2			wk	Py	tr					23/8/97	DV
89314R				SP97-02	9	C	2	OC	PrCh	QPC	Frac	obm		S2	A3			wk	Py	tr					23/8/97	DV
89315R				SP97-03	9	rc	2	oc	Kqm	laqm	frac	tan			A3		ph2	wk	hem	4	mno	1			25/8/97	DV/MR
89316R				SP97-03	9	rc	2	oc	Kqm	laqm	frac	buff		S1	A3		ph2	wk	hem	4	mno	tr			25/8/97	DV/MR
89317R				SP97-03	9	rc	2	oc	Kqm	laqm	frac	buff			A3		ph1	wk	hem	2	as	3			25/8/97	DV/MR
89318R				SP97-03	9	rc	2	oc	Kqm	laqm	frac	tan			A2		ph2	wk	hem	3	mno	2			25/8/97	DV/MR
89319R				SP97-03	9	rc	1	oc	PrCh	laqm	frac	wh			A3		ph1	wk	hem	2	mno	2			25/8/97	DV/MR
89320R				SP97-03	9	rc	1	oc	PrCh	phy	mas	gry					ph3	wk							25/8/97	DV/MR
89321R				SP97-03	9	rc	2	oc	PrCh	phy	fol	tan					ph3	wk							25/8/97	DV/MR
89322R				SP97-03	9	rc	2	oc	Kqm	phy	Fol	gry					ph3	wk							25/8/97	DV/MR
89323R				SP97-04	9	rc	2	oc	Kqm	laqm	frac	or			A3		ph1	mod	hem	3					25/8/97	DV/MR
89324R				SP97-04	9	rc	2	oc	Kqm	laqm	frac	buff			A3		ph3	wk	hem	4	mno	4			25/8/97	DV/MR
89325R				SP97-04	9	rc	2	oc	Kqm	laqm	frac	or			A3		ph3	mod	hem	5	mno	3			25/8/97	DV/MR
89326R				SP97-05	9	rc	2	oc	Kqm	laqm	frac	tan			A3		ph2	wk	hem	3					25/8/97	DV/MR
89327R				SP97-05	9	rc	2	oc	Kqm	laqm	frac	tan		S1	A3		ph3	mod	hem	5					25/8/97	DV/MR
89328R				SP97-05	9	rc	2	oc	Kqm	laqm	frac	buff		S1	A3		ph3	wk	hem	3	as	tr	p	3	25/8/97	DV/MR
89329R				SP97-05	9	rc	2	oc	Kqm	laqm	frac	buff			A3		ph3	wk	hem	2	as	tr	p	tr	25/8/97	DV/MR
89330R				SP97-05	9	rc	2	oc	Kqm	laqm	frac	buff			A3		ph3	wk	hem	2					25/8/97	DV/MR
89331R				SP97-05	9	rc	2	oc	Kqm	qm	frac	gry			A3		ph1	wk	hem	2					25/8/97	DV/MR
89332R				SP97-05	9	rc	2	oc	Kqm	laqm	frac	or			A3		ph2	mod	hem	8					25/8/97	DV/MR
89333R				SP97-05	9	rc	2	oc	Kqm	laqm	frac	or			A4		ph3	str	hem	5					25/8/97	DV/MR
89334R				SP97-06	9	ch	2	Rc	Kqm	QBM	Frac	tan			A3		Ph3	mod							27/8/97	DV/MR
89335R				SP97-06	9	ch	2	Rc	Kqm	QBM	mus	lgm		S2	A3		Ph3	mod							27/8/97	DV/MR
89336R				SP97-06	9	ch	2	Rc	Kqm	QBM	Vned	bm		S1	A3		Ph3	mod	As	5					27/8/97	DV/MR
89337R				SP97-06	9	ch	2	Rc	Kqm	QBM	Vned	lgm		S1	A3		Ph3	mod	As	tr					27/8/97	DV/MR
89338R				SP97-06	9	ch	2	Rc	Kqm	QBM	Frac	bm		S1	A3		Ph3	str							27/8/97	DV/MR
89339R				SP97-06	9	ch	2	Rc	Kqm	QBM	Frac	lgm		S2	A3		Ph3	mod	As	tr					27/8/97	DV/MR
89340R				SP97-06	9	ch	2	Rc	Kqm	QBM	mus	lgm		S3	A3		Ph3	mod							27/8/97	DV/MR
89341R				SP97-07	9	ch	2	Oc	PrCh	phy	Fol	lbm					Ph3	mod							27/8/97	DV/MR

Rock Sample Description Sheet

Sample	X_Coord	Y_Coord	Z_Coord	Traverse	Zone	Type	Width_m	Desc	Fm	Lithology	odifier	Colour	Carb	Silicif	Alt_ARG	Alt_POT	Alt_PHY	Limonite	Mineral_1	M1_Amt	Mineral_2	M2_Amt	Mineral_3	M3_Amt	Date	Name
389342R				SP97-07	9	ch	2	Oc	Kqm	QBM	Frac	lgm		S2	A3		Ph3	str	Py	4	As	tr			27/8/97	DV/MR
389343R				SP97-07	9	ch	2	Oc	Kqm	QBM	Frac	lgm		S1	A3		Ph3	mod	p	4	hem	4			27/8/97	DV/MR
389344R				SP97-07	9	ch	2	Oc	Kqm	QBM	Frac	gm		S1	A3		Ph2	mod	As	3	hem	2			27/8/97	DV/MR
389345R				SP97-07	9	ch	2	Oc	Kqm	QBM	Frac	bm		S1	A3		Ph3	mod	p	10	hem	4			27/8/97	DV/MR
389346R				SP97-07	9	ch	1	Oc	Kqm	QBM	Frac	tan		S1	A3		Ph3	str	p	5	hem	4			27/8/97	DV/MR
389347R				SP97-07	9	ch	2	Oc	PrCh	phy	Fol	tan					Ph3	wk	hem	2	p	1			27/8/97	DV/MR
389348R				SP97-08	9	ch	2	Oc	Kqm	QBM	Frac	lgm		S1	A3		Ph3	str	hem	5	p	4			27/8/97	DV/MR
389349R				SP97-08	9	ch	2	Oc	Kqm	QBM	Frac	lgm		S1	A3		Ph3	mod	hem	2	p	2			27/8/97	DV/MR
389350R				SP97-08	9	ch	2	Oc	Kqm	QBM	Frac	gm		S1	A3		Ph3	mod	hem	5	As	tr	p	2	27/8/97	DV/MR
389351R				SP97-08	9	ch	2	Oc	Kqm	QBM	Frac	gm		S2	A3		Ph3	mod	hem	3	As	tr			27/8/97	DV/MR
389352R				SP97-08	9	ch	2	Oc	Kqm	QBM	Frac	gm		S1	A3		Ph3	mod	hem	4	As	1			27/8/97	DV/MR
389353R				SP97-08	9	ch	2	Oc	Kqm	QBM	Frac	gm		S1	A3		Ph3	str	hem	8	As	1			27/8/97	DV/MR
389354R				SP97-08	9	ch	2	Oc	Kqm	QBM	Frac	gm		S1	A3		Ph3	str	hem	3	As	1			27/8/97	DV/MR
389355R				SP97-08	9	ch	2	Oc	Kqm	QBM	Frac	buff		S1	A3		Ph3	mod	hem	3	p	5			27/8/97	DV/MR
389356R				SP97-08	9	ch	2	Oc	Kqm	QBM	Frac	buff		S1	A3		Ph3	mod	hem	5	p	3			27/8/97	DV/MR
389401R				G	9	c	1.5	oc	Kqm	QBM	Jted	bm			A3		Ph3	str							27/8/97	CS
389402R				G	9	cg		F	Kqm	QBM	Jted	tan		S1	A3		Ph3	wk	As	4					27/8/97	CS
389403R				G	9	c	1.7	F	Kqm	QBM	Brec	tan		S2	A3		Ph3	mod	As	tr					27/8/97	CS
389404R				G	9	cg		F	Kqm	QBM	Brec	gm		S3	A3				As	15					27/8/97	CS
389405R				G	9	c	1.2	oc	Kqm	QBM	frac	lgm		S1	A4		Ph3		As	tr					27/8/97	CS
389406R				G	9	c	1.3	oc	Kqm	QBM	frac	bm		S1	A4		Ph3		As	tr					27/8/97	CS
389407R					9	cg		F	Kqm	QBM	frac	tan		S2	A4		Ph3								27/8/97	CS
389408R					9	cg		F	Kqm	QBM	mass	yel			A4		Ph3								27/8/97	CS
389409R					9	cg		ta	Kqm	QBM	frac	tan		S1	A3		Ph3	wk	As	2					27/8/97	CS
389410R					9	cg		Rc	Kqm	QBM	frac	yel		S1	A3		Ph2	wk	As	2					27/8/97	CS
389411R					9	cg		Ta	PrCh	QPC	Gouge	gm		S3	A3			mod	As	15					27/8/97	CS
389412R				C	9	c	1.5	Oc	PrCh	QPC	Brec	tan		S3	A2			mod	P	<1	as	tr			28/8/97	CS
389413R				C	9	c	1.5	Oc	PrCh	QPC	Brec	tan		S3	A2			mod	P	<1					28/8/97	CS
389414R				C	9	c	1.1	Oc	PrCh	QPC	Brec	tan		S3	A2			mod	P	<1					28/8/97	CS
389415R				C	9	c	1.5	Oc	PrCh	QPC	Brec	lgm		S3	A3			wk	As	6	P	tr			28/8/97	CS
389416R				C	9	c	1.6	Oc	PrCh	QPC	Vned	lgm		S4	A3			tr	As	8	P	3			28/8/97	CS
389417R				C	9	cg		Rc	PrCh	phy	Vned	dbm						str	As	15	P	<1			28/8/97	CS
389418R				C	9			Oc	PrCh	phy	Frac	dbm						mod	As	9	P	2			28/8/97	CS
389451R					9	C	1.5	Oc	PrCh	phy	Vned	gry		S1			Ph1	wk	As	3	P	tr			28/8/97	MR
389452R					9	C	1.5	Oc	PrCh	QPC	Frac	buff		S3	A3			wk	As	2	P	<1			28/8/97	MR
389453R					9	C	1	Oc	PrCh	QPC	Frac	lgy		S3	A3			wk	As	4	P	<1			28/8/97	MR
389454R					9	C	1.5	Oc	PrCh	QPC	Vned	lgy		S3	A3			wk	As	3	P	1			28/8/97	MR
389455R					9	C	1.5	Oc	PrCh	QPC	Frac	tan		S3	A3			wk	As	1	P	1			28/8/97	MR
389456R					9	C	1.5	Oc	PrCh	QPC	Vned	buff		S3	A3			wk	As	1	P	tr			28/8/97	MR
389457R					9	C	1	Oc	PrCh	QPC	Vned	buff		S3	A3			wk	As	tr	P	tr			28/8/97	MR
389458R					9	C	1.5	Oc	PrCh	QPC	Fol	lgy		S2	A2				As	tr					28/8/97	MR
389459R					9	C	1.5	Oc	PrCh	phy	Fol	mgy			A1			wk							28/8/97	MR
389460R					9	C	1.5	Oc	PrCh	QPC	Vned	gm		S3	A3				As	18	P	3			28/8/97	MR
518735R				C	9	cg		F	PrCh	GW	Vug	tan			A3			str							20/8/97	CS
518736R				C	9	c	1.5	Oc	PrCh	QPC	Vned	tan		S2	A3			str	P	2	As	1			20/8/97	CS
518737R				C	9	c	1.3	Oc	PrCh	QPC	Vned	buff		S2	A3			mod	P	tr					20/8/97	CS
518738R				C	9	cg		F	PrCh	QPC	Vned	tan		S1	A3		Ph1	mod	P	2					20/8/97	CS
518739R				C	9	cg		Oc	PrCh	QPC	Vned	buff		S3	A3			wk	P	<1					20/8/97	CS
518740R				C	9	c	1	Oc	PrCh	QPC	Brec	buff		S3	A3			str	P	1	As	tr			20/8/97	CS
518741R				C	9	cg		Rc	PrCh	QPC	Brec	buff		S3	A3			mod	P	tr					20/8/97	CS
518742R				C	9	cg		Rc	PrCh	QPC	Vnd	buff		S3	A3			mod	As	tr					20/8/97	CS
518743R				C	9	c	0.8	Oc	PrCh	QPC	Vnd	red		S2	A3			str							20/8/97	CS
518744R				C	9	cg		F	PrCh	QPC	Vnd	gm		S3	A2			mod	As	9	P	4			20/8/97	CS
518745R				9600N	9	cg		Rc	PrCh	QPC	Frac	bm		S1	A3			str	As	5	P	3			21/8/97	CS
518746R				9600N	9	cg		Rc	PrCh	QPC	Frac	lgm		S3	A3			wk	As	6	P	2			21/8/97	CS
518747R				9600N	9	cg		Rc	PrCh	QPC	Frac	tan			A3		Ph2	mod	P	tr					21/8/97	CS
518748R				9	9	cg		Ta	PrCh	QPC	Vned	gm		S3	A3			As		8					21/8/97	CS
518749R				9600N	9	cg		Ta	PrCh	QPC	Vned	gm		S2	A4			As		15					21/8/97	CS
518750R				9600N	9	cg		Ta	PrCh	QPC	Frac	yel		S1	A4		Ph1	As		<1					21/8/97	CS
519664R				9600N	9	cg		Ta	PrCh	QPC	Gouge	gm		S2	A3			As		1					21/8/97	CS
519665R				9600N	9	cg		Ta	PrCh	QPC	Frac	yel		S3	A4			As		2					21/8/97	CS
519666R				9600N	9	cg		Ta	PrCh	QPC	Frac	Buff		S1	A4			As		2					21/8/97	CS
519667R				9600N	9	cg		Ta	PrCh	QPC	Jted	gm		S3	A3			As		6	P	8			21/8/97	CS

Rock Sample Description Sheet

Sample	X_Coord	Y_Coord	Z_Coord	Traverse	Zone	Type	Width_m	Desc	Fm	Lithology	odifie	Colour	Carb	Silicif	Alt_ARG	Alt_POT	Alt_PHY	Limonite	Mineral_1	M1_Amt	Mineral_2	M2_Amt	Mineral_3	M3_Amt	Date	Name
519668R				9600N	9	c	1.5	Oc	PrCh	QPC	Frac	tan		S2	A4			As	tr	P	tr				21/8/97	CS
519669R				Y	9	cg		Ta	PrCh	QPC	Brec	buff		S3	A3				As	tr					22/8/97	CS
519670R				Y	9	c	1.6	Oc	PrCh	QPC	Gouge	brn		S3	A2			str	As	tr	P	tr			22/8/97	CS
519671R				Y	9	c	1.6	Oc	PrCh	QPC	Flt	brn		S3	A2			str	As	tr	P	tr			22/8/97	CS
519672R				Y	9	c	1.5	Oc	PrCh	QPC	Fol	brn		S2	A3			str							22/8/97	CS
519673R				Y	9	c	0.8	Oc	PrCh	QPC	Jted	buff		S3	A3			str	As	3	P	2			22/8/97	CS
519674R				Z	9	cg		Ta	PrCh	QPC	Frac	gm		S2	A3			wk	As	10	P	2			22/8/97	CS
519675R				Z	9	c	1.5	Oc	PrCh	QPC	Brec	lgy		S4	A3			wk	As	5	P	2			22/8/97	CS
519676R				Z	9	c	1	Oc	PrCh	QPC	Brec	tan		S4	A2			mod	As	tr					22/8/97	CS
519677R				Z	9	c	1.5	Oc	PrCh	QPC	Brec	brn		186	A2			str	As	tr	P	tr			22/8/97	CS
519678R				Z	9	cg		Oc	PrCh	QPC	Frac	buff		S3	A3			mod	As	2	P	3			22/8/97	CS
519679R				B	9	c	1.8	Oc	PrCh	QPC	Frac	tan		S3	A3			str	P	tr					22/8/97	CS
519680R				B	9	cg		Ta	PrCh	QPC	Frac	buff		S3	A3			wk	As	3	P	3			22/8/97	CS
519681R				B	9	c	1	Oc	PrCh	QPC	Brec	buff		S4	A3				As	tr	P	tr			22/8/97	CS
519682R				B	9	cg		Ta	PrCh	QPC	Frac	gm		S3	A4				As	12	P	2			22/8/97	CS
519683R					9	cg		Rc	PrCh	QPC	Fcte	dbrn						str							24/8/97	CS
519684R					9	cg		Rc	PrCh	QPC	Vned	gm		S2	A3			mod	As	4	P	<1			24/8/97	CS
519685R					9	cg		Rc	PrCh	GW	Vned	gm		S3	A4				As	15					24/8/97	CS
519686R					9	cg		Rc	PrCh	GW	Vned	gm		S3	A3				As	10	Ga	2	P	3	24/8/97	CS
519687R					9	cg		Rc	PrCh	GW	Frac	gm		S3	A2			wk	As	12	P	2			24/8/97	CS
519688R					9	cg		Rc	PrCh	GW	Frac	gm		S2	A3			wk	As	6	Ga	4	P	7	24/8/97	CS
519689R					9	cg		Rc	PrCh	GW	Vned	gm		S3	A4				As	15	P	<1			24/8/97	CS
519690R					9	g		Fl	PrCh	phy	Vn	gm							As	30					24/8/97	CS
519691R				G	9	cg		Ta	Kqm	QBM	Vned	gm						wk	As	20					25/8/97	CS
519692R					9	cg		Rc	PrCh	QPC	Vned	gm							As	20	P	5			25/8/97	CS
519693R					9	cg		F	Kqm	QPM	Frac	lgm			A3		Ph3		As	2					25/8/97	CS
519694R					9	c	1	Oc	Kqm	QPM	Frac	buff			A4		Ph3		As	tr					25/8/97	CS
519695R				B	9	c	1.4	Oc	PrCh	QPC	Brec	tan		S3	A2			mod	As	5	P	3			26/8/97	CS
519696R				B	9	c	1	Oc	PrCh	QPC	Brec	lgm		S4	A3			tr	As	6	P	2			26/8/97	CS
519697R				B	9	c	1.5	Oc	PrCh	QPC	Brec	lgm		S4	A3			tr	As	9	P	4			26/8/97	CS
519698R				B	9	cg		Rc	PrCh	QPC	Vned	brn		S3	A3			mod	P	5					26/8/97	CS
519699R				B	9	c	1.5	Oc	PrCh	QPC	Frac	lgm		S3	A2			mod	As	7	P	3			26/8/97	CS
519700R				B	9	c	1.5	Oc	PrCh	QPC	Frac	lgm		S3	A2			str	As	8	P	3			26/8/97	CS
519776R					9	cg	15	oc	PrCh	qpc	frac	or		S1	A1		ph1	mod	As	3	hem	15	MnO	tr	20/8/97	GMG
519777R					9	cg	3	oc	PrCh	qpc	sk	gm		S2	A2		ph1	wk	As	5	hem	5			20/8/97	GMG
519778R					9	cg	10	oc	Kqm	laqm	frac	dkor		S1	A1		ph1	mod	p	5	hem	3	As	2	20/8/97	GMG
519779R					9	cg	3	ta	PrCh	phy	brec	or		S1	A2		ph2	mod	p	3	hem	5	As	2	20/8/97	GMG
519780R					9	cg	5	ta	Kqm	laqm	frac	gm		S1	A2		ph2	mod	p	3	hem	3	As	2	20/8/97	GMG
519781R				9700N	9	cg		ta	PrCh	qpc	frac	gm		S1	A3		ph1	wk	As	8	hem	2			21/8/97	GMG
519782R				9700N	9	cg		ta	PrCh	qtz	vn	wh						wk	As	2	hem	4			21/8/97	GMG
519783R				9700N	9	rc		oc	PrCh	phy		or					ph2	mod	p	tr	As	1	hem	3	21/8/97	GMG
519784R				9700N	9	rc		oc	PrCh	qpc	frac	gm		S1	A2		ph1	mod	As	2	hem	2			21/8/97	GMG
519785R				9700N	9	rc		oc	PrCh	qpc	frac	gm		S1	A2		ph1	mod	As	3	hem	3			21/8/97	GMG
519786R				9700N	9	rc		oc	PrCh	ss	vn	gm			A4				As	100					21/8/97	GMG
519787R				9700N	9	rc		oc	PrCh	qtz	vn	wh						mod	hem	2					21/8/97	GMG
519788R				9700N	9	rc		oc	PrCh	ss		or		S1	A2		ph1	mod	hem	4	As	tr			21/8/97	GMG
519789R				9700N	9	cg		ta	PrCh	phy	frac	buff			A1		ph2	mod	hem	3	As	25			21/8/97	GMG
519790R				9700N	9	rc		oc	PrCh	qpc	sk	gm		S1	A2		ph1	wk	hem	tr	As	2			21/8/97	GMG
519791R				9700N	9	rc		oc	PrCh	phy	vn	buff			A2		ph2	wk	hem	2					21/8/97	GMG
519792R				9700N	9	cg		ta	PrCh	qpc	Gouge	buff			A2		ph1	mod	As	10	hem	3			21/8/97	GMG
519793R				9700N	9	rc		oc	PrCh	qpc	sk	gm			A2		ph1	mod	As	10	hem	tr			21/8/97	GMG
519794R					9	rc	7	oc	PrCh	qtz	Frac	wh						wk	As	tr	hem	2			22/8/97	GMG
519795R					9	rc	1	rb	PrCh	ss	Gouge	gm			A2			wk	As	5					22/8/97	GMG
519796R					9	rc	10	oc	PrCh	ss	sk	buff		S2	A2			wk	As	2					22/8/97	GMG
519797R					9	rc	1	rb	PrCh	ss	sk	brn		S1	A1			wk	As	2	hem	2			22/8/97	GMG
519798R					9	rc	3	rb	PrCh	qpc	Gouge	or						mod	As	3	hem	2	p	2	22/8/97	GMG
519799R					9	rc	4	oc	PrCh	qpc	Gouge	or						mod	As	tr	hem	4			22/8/97	GMG
519800R					9	rc	20	oc	PrCh	qpc		buff		S1	A2			mod	As	tr	p	2	hem	2	22/8/97	GMG

Rock Sample Description Sheet

SAMP	Au_ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn	Comments
389251R	80	0.1	0.34	3420	10	0.2	6	0	0.2	1	188	6	1.02	5	5	0.05	10	0	55	0	0	5	60	2	1	0	13	0	5	5	3	5	6	fract. control mineral.
389252R	5	0.1	0.36	28	5	0.2	1	0	0.2	0	223	14	1.11	5	5	0.05	5	0.05	55	0	0	4	90	2	1	0	2	0	5	5	4	5	6	
389253R	5	0.1	0.34	32	5	0.2	1	0.01	0.2	3	218	4	1.04	5	5	0.04	5	0.01	400	0	0	7	80	1	1	0	10	0	5	5	3	5	14	
389254R	5	0.1	2.05	436	30	0.2	1	0	0.2	16	100	43	5.06	5	5	0.18	30	0.65	605	0	0.01	33	220	30	1	1	5	0	5	5	15	5	102	
389255R	10	0.1	0.57	368	60	0.2	1	0	0.2	2	146	11	2.15	5	5	0.21	30	0.03	85	0	0	6	170	4	2	0	14	0	5	5	6	5	20	
389262R	2	0.1	0.39	32	30	0.2	1	0	0.2	2	192	9	1.06	5	5	0.07	10	0.11	235	0	0	5	80	1	1	0	1	0	5	5	3	5	2	qtz vns -bull qtz stringers
389263R	2	0.1	0.29	62	20	0.2	1	0	0.2	2	258	12	1.32	5	5	0.06	10	0	75	0	0	8	130	1	1	0	22	0	5	5	5	5	12	frac. w skvns of bull qtz
389264R	2	0.1	0.44	20	40	0.2	1	0	0.2	2	173	5	0.86	5	5	0.1	10	0.03	190	0	0	6	110	1	1	0	4	0	5	5	5	5	10	
389265R	1160	6.6	0.11	10000	10	0.2	568	0	0.2	0	65	117	11.8	5	40	0.04	5	0	25	1	0	0	50	42	56	1	4	0	5	5	3	5	4	frac. controlled scoredite
389266R	2	0.1	0.28	724	20	0.2	1	0	0.2	4	174	9	1.25	5	5	0.05	10	0	95	0	0	5	70	2	1	0	16	0	5	5	4	5	16	strg frac
389267R	805	1	0.15	10000	40	0.2	432	0	0.2	0	98	80	7.21	5	10	0.06	5	0	20	1	0	0	10	32	32	1	6	0	5	5	3	5	8	scoredite along vns
389268R	3140	33.4	0.04	10000	5	0.2	1430	0	0.2	0	19	20	15	5	10	0	5	0	5	2	0	0	5	36	116	0	2	0	10	5	2	5	4	qtz/As vn
389269R	3160	5.2	0.08	10000	5	0.2	250	0	0.2	0	38	86	14.35	5	320	0.01	5	0	20	2	0	0	5	14	134	0	4	0	10	5	4	5	4	qtz/As vn
389270R	90	1	1.02	4580	60	0.2	34	0.2	0.2	5	51	27	2.82	5	5	0.28	30	0.25	335	0	0.01	7	190	82	12	1	10	0	5	5	7	5	70	dike margin
389271R	120	0.4	0.85	6270	10	0.2	10	0.04	0.2	9	256	44	2.63	5	20	0.05	5	0.34	1130	1	0.01	19	90	122	4	1	4	0	5	5	7	5	36	Qtz/As vn in laqm
389272R	20	0.1	0.39	384	40	0.2	1	6.9	0.2	5	63	55	1.85	5	10	0.12	5	2.3	590	1	0	10	290	8	6	3	48	0	5	5	6	5	20	poss. near laqm dike
389273R	55	1.6	0.82	9590	80	0.2	22	0.07	0.2	1	57	26	4	5	5	0.44	20	0.08	95	0	0.01	1	280	268	4	1	7	0	5	5	5	5	6	northern part of Sprogge,near camp
389274R	545	0.4	1	10000	80	0.2	20	0.06	0.2	1	94	11	1.91	5	5	0.32	30	0.09	50	1	0.01	2	130	24	4	0	8	0	5	5	4	5	2	boxwork text.-ox. p.
389275R	11110	37.8	0.32	10000	30	0.2	1625	0	0.2	1	54	10	11.95	5	10	0.12	5	0	20	1	0	0	60	546	100	1	13	0	5	5	4	5	4	qtz/As vn along laqm/qpc contact
389276R	110	0.1	0.64	566	50	0.2	2	0.02	0.2	1	129	4	1.06	5	5	0.23	30	0.02	75	0	0	3	160	10	1	1	6	0	5	5	3	5	6	
389277R	115	0.2	0.89	1745	250	0.2	14	0.03	0.2	1	68	12	1.48	5	5	0.35	40	0.05	165	0	0.01	1	210	14	2	1	9	0	5	5	3	5	8	boxwork text.-ox. p.
389278R	10	0.2	0.86	2460	170	0.5	1	0.1	0.2	5	53	27	2.15	5	5	0.39	30	0.08	160	1	0.02	3	340	160	1	2	8	0	5	5	5	5	64	boxwork text.-ox. p.
389301R	10	0.1	0.88	158	90	0.2	1	0.01	0.2	2	85	10	1.48	5	5	0.29	30	0.04	75	1	0	4	270	12	1	1	113	0	5	5	4	5	10	0-2m QBM DYKE
389302R	5	0.1	0.62	108	60	0.2	1	0.01	0.2	4	83	18	2.04	5	5	0.19	20	0.01	180	0	0	12	240	10	1	1	110	0	5	5	6	5	34	2-3m QBM DYKE
389303R	2	0.1	0.55	62	40	0.2	2	0	0.2	14	58	36	4.4	5	5	0.18	30	0.02	415	0	0.01	28	340	6	1	2	29	0	5	5	12	5	62	3-4m
389304R	10	0.1	0.52	196	30	0.2	1	0	0.2	15	46	40	4.59	5	5	0.18	30	0.02	475	0	0.01	33	280	4	1	1	21	0	5	5	12	5	78	4-5m (mod limonitic)
389305R	1295	0.8	0.27	10000	30	0.2	28	0	0.2	17	90	40	5.42	5	5	0.11	5	0.01	60	0	0	11	50	32	12	0	9	0	5	5	4	5	16	5-6m (Qz-As vns)
389306R	1380	0.8	0.44	10000	40	0.2	58	0	0.2	7	90	18	3.35	5	10	0.12	10	0.01	160	0	0	9	70	36	8	1	30	0	5	5	6	5	14	0-2m(partial Qz-As viening)
389307R	2	0.1	0.41	228	10	0.2	1	0	0.2	7	177	11	2.29	5	5	0.07	10	0	235	0	0	16	110	1	1	1	23	0	5	5	8	5	14	2-4m (vned sulphides)
389308R	10	0.1	0.43	148	20	0.2	1	0	0.2	6	157	11	2.04	5	5	0.09	20	0	210	0	0	16	100	1	1	1	16	0	5	5	9	5	16	4-6m (Loc white QVNS)
389309R	2	0.1	0.49	120	20	0.2	1	0	0.2	7	194	16	2.67	5	5	0.11	10	0	185	0	0	21	100	1	1	1	17	0	5	5	9	5	32	6-8m (Loc white QVNS)
389310R	2	0.1	0.67	102	30	0.2	1	0	0.2	9	120	16	3.53	5	5	0.15	20	0.01	290	0	0	21	120	1	1	3	22	0	5	5	15	5	36	8-10m (Frac cont Py)
389311R	20	0.1	0.48	232	10	0.2	4	0	0.2	5	142	24	3.22	5	10	0.12	10	0.01	140	0	0	11	100	6	1	1	10	0	5	5	11	5	22	10-12m(Py boxwork along fractures)
389312R	1275	1.2	0.59	1330	60	0.2	32	0	0.2	6	106	23	3.66	5	10	0.16	10	0.01	175	0	0	14	110	66	2	2	22	0	5	5	13	5	38	12-14m(Frac cont py)
389313R	290	0.1	0.91	216	60	0.2	18	0	0.2	3	44	17	2.12	5	5	0.17	30	0.01	110	1	0	9	240	20	1	2	170	0	5	5	8	5	30	14-16m (fine fracturing)
389314R	10	0.1	0.37	158	10	0.2	2	0	0.2	4	117	12	1.64	5	10	0.09	10	0	80	0	0	11	120	2	1	1	24	0	5	5	8	5	12	16-18m(limonite along fractures-after sulfides?)
389315R	2	0.1	0.78	110	80	0.5	1	0.07	0.2	8	57	16	2.16	5	5	0.31	30	0.05	320	1	0.04	6	430	18	1	2	9	0	5	5	5	5	34	0-2m
389316R	45	3.6	0.82	5430	60	0.2	18	0.04	0.2	6	51	20	2.77	5	5	0.31	30	0.06	280	4	0.02	4	430	380	2	1	5	0	5	5	5	5	24	2-4m finer grained dyke
389317R	105	6.6	0.8	10000	60	0.2	42	0.04	0.2	1	86	16	3.18	5	10	0.35	30	0.05	110	1	0.02	3	410	660	8	1	6	0	5	5	4	5	30	4-6m fract. control min. for As
389318R	2	0.1	1.04	96	90	0.5	1	0.14	0.2	6	67	7	2.26	5	5	0.28	30	0.15	390	0	0.05	8	420	22	1	3	12	0	5	5	12	5	48	6-8m
389319R	2	0.1	1.11	430	110	0.5	1	0.06	0.2	7	52	8	2.07	5	5	0.29	30	0.05	325	3	0.05	13	260	22	1	1	13	0	5	5	2	5	24	8-9m fine gr. alt decre.
389320R	2	0.1	1.52	100	40	0.5	1	0.06	0.2	23	33	56	4.74	5	5	0.17	60	0.32	1035	0	0.05	55	510	6	1	3	15	0	5	5	17	5	136	9-10m
389321R	2	0.1	2.5	38	30	0.2	1	0.06	0.2	18	70	43	4.8	5	5	0.15	50	0.81	675	0	0.04	48	390	8	1	2	12	0	5	5	17	5	114	10-12m
389322R	2	0.1	1.07	32	40	0.5	1	0.08	0.2	18	30	53	3.17	5	10	0.18	70	0.09	425	0	0.06	32	660	24	1	2	38	0	5	5	14	5	76	12-14m poor alt. of phy.
389323R	2	0.1	0.89	830	60	0.2	2	0.03	0.2	2	38	10	1.83	5	5	0.26	40	0.05	105	0	0	5	280	28	1	1	32	0	5	5	2	5	18	0-2m very thin qtz vns
389324R	2	0.1	0.9	70	60	0.5	1	0.06	0.2	5	60	5	2.54	5	5	0.3	40	0.04	300	0	0.03	6	430	14	1	2	9	0	5	5	4	5	30	2-4m
389325R	2	0.1	0.97	40	80	0.5	1	0.08	0.2	3	72	5	1.64	5	5	0.27	30	0.07	85	0	0.03	4	380	16	1	2	12	0	5	5	7	5	30	4-6m possiblr tr. As?-doubt it
389326R	2	0.1	0.85	8	60	0.5	1	0.04	0.2	10	47	5	1.9	5	5	0.26	30	0.04	220	0	0.03	8	350	14	1	1	9	0	5	5	5	5	42	0-2m dyke in Hyland group
389327R	2	0.1	0.97	26	80	0.5	1	0.03	0.2	3	62	4	1.75	5	5	0.28	30	0.05	105	0	0.02	3	310	16	1	1	14	0	5	5	4	5	30	2-4m lim. ox. sulphides
389328R	2	0.1	0.79	26	70	0.5	1	0.06	0.2	4	68	4	2.01	5	5	0.27	30	0.05	245	0	0.04	3	400	12	1	2	10	0	5	5	6	5	28	4-6m alt/mineral incr.
389329R	2	0.1	0.91	52	50	0.5	1	0.08	0.2	4	65	4	1.7	5	5	0.25	30	0.16	140	0	0.03	7	420	14	1	1	12	0	5	5	5	5	30	6-8m silica derc.
389330R	2	0.1	0.75	372	60	0.5	1	0.09	0.2	5	49	7	2.02	5	5	0.24	20	0.12	230	0	0.03	4	420	10	1	1	8	0	5	5	6	5	28	8-10m less frac.
389331R	2	0.1	0.89	318	60	0.5	1	0.11	0.2	6	71	6	2.47	5	5	0.28	30	0.11	305	0	0.03	10	420	10	2	4	9	0	5	5	13	5	34	10-12m 50%/50% -alt.
389332R	2	0.1	0.93	98	50	0.5	1	0.06	0.2	4	64	4	2.22	5	5	0.26	30	0.05	345	0	0.01	4	430	14	1	2	9	0	5	5	5	5	26	12-14m alt incr.
389333R	2	0.1	0.95	116	50	0.2	1	0.04	0.2	3	79	5	1.93	5	5	0.3	40	0.05	300	0	0	3	380	22	1	2	7	0	5	5	3	5	22	14-16m strong alt.
389334R	20	0.1	0.88	1300	50	0.2	1	0.01	0.2	2	72	15	2.08	5	5	0.27	30	0.06	65	0	0.01	2	350	24	1	2	22	0	5	5	5	5	26	0-2m minor scorodite
389335R	10	0.1	0.9	700	50	0.2	1	0.01	0.2	1	66	11	1.87	5	5	0.27	30	0.05	45	0	0	3	350	28	1	2	20	0	5	5	5	5	42	2-4m perv. scor. frac. cont. lim.
389336R	45	0.1	0.8	1710	50	0.5	1	0.01	0.2	1	59	17	1.54	5	10	0.27	30	0.05	45	0	0	2	330	34	2	3	30	0	5	5	4	5	34	4-6m loc. perv. vned
389337R	20	0.8	0.76	1830	50	0.2	4	0.01	0.2	1	49	19	1.62	5	5	0.24	30	0.05	45	0	0	1	270	284	1	2	27	0	5	5	5	5	30	6-8m wk. perv. scor.
389338R	15	1.4	0.66	1575	40	0.2	2	0.01	0.2	1	43	16	1.9	5	20	0.22	30	0.04	40	0	0	1	260	414	2	1	14	0	5	5	4	5	48	8-10m strong lim. when weathered
389339R	15	0.1	0.7	1160	40	0.2	1	0.01	0.2	0	57	10	1.58	5	5	0.23	20	0.04	40	0	0	2	320	38	1	1	18	0	5	5	4	5	26	10-12m loc. scor., wk. frac.
389340R	30	0.2	1.01	1185	50	0.2	1	0.03	0.2	4	45	16	2.07	5	5	0.26	30	0.15	160	0	0	7	300	50	4	2	23	0	5	5	6	5	38	12-14m scor.?
389341R	2	0.1	0.43	84	30	0.2	1	0.03	0.2	17	15	35	5.15	5	5	0.17	20	0.07	355	0	0.03	38	170	1	8	3	17	0	5	5	8	5	98	0-2m F.G. dissem. +frac. cont. Hem.

Rock Sample Description Sheet

AMP	Au_ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sc	Ti	Tl	U	V	W	Zn	Comments
89342R	90	0.1	0.58	586	40	0.2	1	0.03	0.2	1	32	12	1.71	5	5	0.25	30	0.04	65	0	0	1	210	22	14	1	13	0	5	5	1	5	26	2-4m dissem. m.g. pyrite
89343R	50	0.1	0.58	744	40	0.5	1	0.07	0.2	3	45	8	1.95	5	5	0.23	30	0.04	260	0	0	4	360	22	8	2	17	0	5	5	1	5	54	4-6m boxwork text-py
89344R	130	0.2	0.48	1085	40	0.2	1	0.03	0.2	0	36	9	1.27	5	5	0.24	30	0.03	60	2	0	0	170	134	20	0	13	0	5	5	1	5	128	6-8m scorodite along frac.
89345R	100	0.6	0.56	1265	40	0.2	2	0.03	0.2	0	39	6	1.17	5	5	0.26	20	0.04	20	0	0	0	120	280	28	0	22	0	5	5	1	5	54	8-10m boxwork text py., ox py
89346R	65	0.2	0.62	840	50	0.2	1	0.04	0.2	1	32	13	0.96	5	5	0.26	30	0.05	50	0	0	0	160	94	14	0	14	0	5	5	0	5	48	10-11m qtz vns, boxwork
89347R	20	0.1	0.63	524	580	0.5	1	0.03	0.2	17	18	16	4.72	5	50	0.23	30	0.07	275	0	0.03	36	150	44	8	2	23	0	5	5	12	5	102	11-13m dissem. py on phy-py ox.
89348R	340	0.2	0.65	814	40	0.2	1	0.03	0.2	1	52	6	1.58	5	5	0.29	30	0.05	70	0	0	1	270	22	8	2	8	0	5	5	3	5	42	0-2m dissem. py on frac. qtz. vns
89349R	300	0.1	0.75	384	50	0.2	1	0.01	0.2	1	70	2	0.86	5	5	0.35	30	0.05	50	0	0	1	170	42	8	1	9	0	5	5	3	5	24	2-4m qts vns
89350R	480	0.1	0.5	1490	30	0.2	1	0.01	0.2	0	57	5	1.62	5	5	0.23	20	0.03	30	0	0	1	480	16	6	2	11	0	5	5	2	5	20	4-6m
89351R	210	0.1	0.42	746	40	0.2	1	0.01	0.2	1	58	3	1.38	5	5	0.22	20	0.02	45	0	0	1	250	16	2	1	12	0	5	5	1	5	14	6-8m
89352R	170	0.2	0.41	616	30	0.2	1	0.01	0.2	1	32	7	1.33	5	5	0.19	10	0.03	65	0	0	2	220	18	6	1	11	0	5	5	1	5	22	8-10m scorodite along frac.
89353R	50	0.1	0.4	302	30	0.2	4	0.01	0.2	1	35	8	1.83	5	5	0.16	10	0.02	55	0	0	1	320	18	4	1	12	0	5	5	1	5	30	10-12m
89354R	360	0.1	0.39	1285	30	0.2	1	0.01	0.2	1	28	14	2.37	5	5	0.16	20	0.02	95	0	0	1	480	12	6	2	14	0	5	5	1	5	26	12-14m qtz vns (micro vns)
89355R	40	0.1	0.53	348	30	0.2	1	0.03	0.2	3	30	15	1.88	5	5	0.15	20	0.05	125	0	0	5	320	20	2	1	29	0	5	5	3	5	28	14-16m
89356R	35	0.1	0.57	290	30	0.2	1	0.03	0.2	2	24	16	1.95	5	5	0.18	20	0.03	155	0	0	4	380	20	2	1	30	0	5	5	1	5	26	16-18m(limonite along fractures-after sulfides?)
89401R	45	0.1	0.82	208	50	0.2	1	0.03	0.2	2	51	6	2.59	5	5	0.26	30	0.07	80	0	0.02	1	500	24	2	2	13	0	5	5	3	5	32	Wk. green; decompoed
89402R	60	0.1	0.7	10000	40	0.2	1	0	0.2	0	51	17	2.15	5	5	0.32	20	0.05	35	0	0	0	330	18	4	3	16	0	5	5	3	5	16	Mod. scor. al fract, joints
89403R	45	0.1	0.47	160	30	0.2	1	0.02	0.2	0	73	3	0.97	5	5	0.2	10	0.03	15	0	0	0	280	22	1	0	11	0	5	5	1	5	10	Qz. stwork; perv. scorodite
89404R	2080	32.2	0.25	10000	40	0.2	62	0	1.5	10	7	33	9.41	5	70	0.14	10	0	5	0	0	0	80	8380	112	0	2	0	5	5	0	5	78	Select. comp. grab at. phyllite cont.
89405R	60	0.2	0.76	324	30	0.2	1	0	0.2	1	41	11	2.25	5	5	0.23	30	0.05	30	0	0	0	420	66	1	1	6	0	5	5	3	5	44	Crumbly; strong alt; wk scor
89406R	30	0.2	0.76	578	40	0.2	1	0	0.2	0	52	11	2.21	5	5	0.26	20	0.05	20	0	0.01	0	390	70	1	1	7	0	5	5	2	5	28	Minor Qzvns, weakly scorod
89407R	2	0.1	0.84	14	10	0.2	1	0.04	0.2	1	26	7	2.41	5	5	0.16	10	0.06	70	0	0	1	190	8	1	1	14	0	5	5	3	5	20	Weakly microfratured, crumbly
89408R	125	0.1	0.8	1625	80	0.2	2	0	0.2	6	55	20	2.09	5	5	0.23	10	0.05	55	0	0.03	9	180	22	1	1	17	0	5	5	4	5	24	Crumbly, yellow scor. stain
89409R	20	0.1	0.99	146	130	0.2	1	0.06	0.2	0	28	9	1.54	5	5	0.3	40	0.13	35	0	0.06	1	280	6	1	1	49	0	5	5	4	5	10	Vned As, Scor, wk green color
89410R	195	0.6	0.82	10000	90	0.2	8	0.04	0.2	0	36	43	2.43	5	5	0.24	20	0.16	70	0	0.05	0	430	50	6	1	23	0	5	5	7	5	30	Select pieces mod. scoroditic
89411R	11660	4.2	0.06	10000	30	0.2	272	0	0.2	0	27	47	13.85	5	10	0.05	5	0	15	0	0	0	140	88	126	2	8	0	5	5	1	5	2	Abnt. flt; Qz-As vein gouge
89412R	460	0.6	0.13	266	50	0.2	1	0	0.2	0	121	1	0.93	5	1460	0.05	5	0	5	0	0	1	140	12	10	0	8	0	5	5	3	5	2	Strong pyrite boxwork
89413R	255	0.1	0.15	2130	30	0.2	2	0	0.2	0	125	2	1	5	590	0.06	5	0	5	0	0	2	120	8	6	0	8	0	5	5	3	5	2	Silica matrix in breccia, Py bxwk
89414R	230	0.2	0.15	120	30	0.2	1	0	0.2	0	144	1	0.9	5	730	0.06	5	0	10	0	0	2	110	10	6	0	7	0	5	5	2	5	2	Small Qz vns, mod Py bxwk
89415R	1255	1	0.16	10000	30	0.2	54	0	0.2	0	137	20	2.23	5	100	0.05	5	0	10	0	0	1	80	24	8	0	28	0	5	5	1	5	2	Mod. frac cont scor; str. Py (As?) bxwk
89416R	26470	8.4	0.1	10000	30	0.2	516	0	0.2	6	139	39	3.73	5	50	0.08	5	0	10	0	0	2	230	170	18	1	28	0	5	5	1	5	2	Strong Py boxwork
89417R	3600	2.2	0.16	10000	40	0.2	152	0.54	0.5	3	33	316	13.9	5	20	0.13	5	0.03	45	0	0	4	180	120	86	5	278	0	5	5	2	5	26	Sel. cg; Qz-As veins in phy
89418R	150	0.6	0.59	10000	30	0.2	22	0.13	0.2	23	59	291	9.08	5	5	0.13	10	0.13	125	0	0	13	370	8	20	2	51	0	5	5	6	5	26	Qz +/- As stringers in phy
89451R	40	0.1	0.36	1290	40	0.2	2	0	0.2	4	84	34	2.57	5	20	0.14	10	0	30	0	0	8	310	2	6	1	26	0	5	5	8	5	16	Mixed QPC + phyllite
89452R	75	0.6	0.27	10000	40	0.2	32	0	0.2	0	139	7	2.15	5	40	0.19	5	0.01	15	0	0	2	130	36	6	0	10	0	5	5	3	5	2	Frac cont Pyrite
89453R	60	0.2	0.16	2060	20	0.2	6	0	0.2	1	109	7	1.13	5	140	0.12	5	0.01	15	0	0	1	130	12	2	0	8	0	5	5	1	5	2	Loc. lim after frac cont Pyrite
89454R	40	0.1	0.18	3230	20	0.2	2	0	0.2	0	114	13	0.86	5	10	0.09	5	0	20	0	0	3	100	8	1	0	7	0	5	5	1	5	2	QzAs vns; loc. Pyrite boxwork
89455R	20	0.1	0.15	1300	10	0.2	2	0	0.2	0	94	6	1.1	5	10	0.07	5	0	20	0	0	2	70	2	1	0	6	0	5	5	2	5	4	Loc fine silica + As stringers
89456R	75	0.1	0.12	936	10	0.2	2	0	0.2	0	119	6	1.15	5	190	0.06	5	0	15	0	0	3	70	4	2	0	17	0	5	5	1	5	2	Loc. Py boxwork
89457R	15	0.1	0.17	644	20	0.2	1	0	0.1	0	106	5	0.89	5	20	0.08	10	0	10	0	0	2	60	1	2	0	25	0	5	5	1	5	2	Qz veining
89458R	90	0.2	0.35	10000	50	0.2	8	0	0.2	0	72	16	2.16	5	60	0.2	20	0.01	15	0	0	1	270	20	6	2	80	0	5	5	5	5	2	small fault zone?
89459R	225	0.2	0.33	10000	50	0.2	32	0	0.2	0	59	22	2.91	5	40	0.25	30	0.01	5	0	0	1	440	32	12	2	78	0	5	5	7	5	2	Clay minerals al fractured
89460R	425	0.6	0.21	10000	30	0.2	32	0	0.2	14	128	33	2.71	5	90	0.09	10	0	10	0	0	5	140	26	8	0	31	0	5	5	4	5	2	Qz-As veins, frac + interst. As
518735R	5	0.1	2.46	52	340	0.5	1	0.05	0.2	7	108	115	15	10	20	0.04	30	0.01	490	6	0	28	2960	38	6	7	3300	0.01	5	10	182	5	114	Near "C-0", along strike of fault
518736R	1205	0.8	0.26	1860	70	0.2	42	0	0.2	2	167	28	2.99	5	410	0.09	5	0.01	55	0	0	6	120	46	2	1	34	0	5	5	2	5	20	0.8m true width, frac cont. Py
518737R	5	0.1	0.4	32	30	0.2	1	0	0.2	0	181	6	0.85	5	5	0.11	10	0	25	0	0	3	100	2	1	0	36	0	5	5	6	5	8	15-20% sheeted qz veins
518738R	5	0.1	0.4	20	10	0.2	1	0	0.2	0	217	9	1.11	5	5	0.11	5	0.03	25	0	0	4	130	2	1	0	5	0	5	5	4	5	8	Dissem. + vein ass. Pyrite
518739R	5	0.1	0.32	2	30	0.2	1	0	0.2	0	214	1	0.32	5	190	0.09	10	0	10	0	0	2	50	4	1	0	12	0	5	5	3	5	2	Uniform alt; slight green colour
518740R	45	0.1	0.2	40	10	0.2	1	0	0.2	0	195	5	0.94	5	240	0.05	5	0	10	0	0	3	80	2	4	0	13	0	5	5	2	5	2	Brecc; local py + as
518741R	10	0.1	0.29	12	30	0.2	1	0	0.2	0	190	2	0.38	5	990	0.11	10	0	10	0	0	2	60	6	1	0	26	0	5	5	3	5	2	15-20% grey chdy veins
518742R	10	0.1	0.2	18	40	0.2	1	0	0.2	0	183	1	0.37	5	400	0.1	10	0	5	0	0	2	50	2	1	0	6	0	5	5	2	5	2	25-30% Qz veins
518743R	10	0.1	0.27	78	30	0.2	1	0	0.2	0	136	3	1.2	5	180	0.13	10	0	5	0	0	1	130	2	6	0	5	0	5	5	3	5	2	35% Qzvns, red oxidation
518744R	310	0.6	0.2	10000	10	0.2	16	0	0.2	14	151	22	2.12	5	5	0.11	5	0	15	0	0	4	30	2	18	0	3	0	5	5	1	5	2	QzAs veins + frac cont. As
518745R	440	1.8	0.67	7300	70	0.2	12	0.04	0.2	3	56	24	2.79	5	10	0.29	10	0.03	160	0	0	1	370	404	10	1	7	0	5	5	2	5	76	Vned, frac cont As, Py; sel. cg
518746R	380	0.2	0.43	9790	30	0.2	12	0	0.2	1	197	22	1.91	5	20	0.17	10	0.01	50	0	0	4	80	12	2	0	9	0	5	5	4	5	10	Frac + vn controlled arseno
518747R	25	0.1	0.49	606	30	0.2	1	0.02	0.2	3	168	36	4.79	5	80	0.1	10	0	170	0	0	8	280	6	8	1	111	0	5	5	6	5	18	Local microfractures
518748R	17210	2.6	0.08	10000	5	0.2	450	0	0.2	0	40	51	14.4	5	20	0.03	5	0	25	1	0	0	120	32	94	4	4	0	10	5	0	5	2	Strong scor; vein + frac cont As
518749R	29970	3.8	0.23	10000	20	0.2	812	0	0.2	0	88	58	8.99	5	30	0.1	5	0	15	1	0	0	70	112	66	1	7	0	5	5	1	5	2	Strong scor;abnt talus
518750R	415	0.1	0.51	5840	10	0.2	14	0	0.5	0	157	9	1.09	5	5	0.1	10	0.01	20	0	0	2	60	2	2	0	11	0	5	5	5	5	2	Wk-mod. perv. scorodite
519664R	33390	5	0.05	10000	5	0.2	592	0	0.2	0	24	60	15	5	20	0.02	5	0	25	1	0	0	150	110	96	5	4	0	10	5	0	5	2	40% scor. as small irr. veins
519665R	595	0.1	0.4	4700	20	0.2	10	0	0.2	3	179	16	0.89	5	5	0.15	10	0.01	15	0	0	2	50	6	1	1	6	0	5	5	4	5	2	Fine, perv. arg, scor alt; vned
519666R	925	0.2	0.38	8790	10	0.2	26	0	0.2	0	173	15	2	5	10	0.09	10	0	15	0	0	3	60	8	4	0	13	0	5	5	4	5	6	QzAs veins, perv. yellow scor
519667R	16110	2.4	0.2	10000	20	0.2	220	0	0.2	0	164	30	3.02	5	40	0.07	5	0	30	0	0	3	110	112	8	0	23	0	5	5	3	5	4	QzAs vns along fract, joints

Rock Sample Description Sheet

[illegible]	Au_ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn	Comments
[illegible]	35	0.1	0.46	550	10	0.2	1	0	0.2	3	129	23	2.67	5	10	0.11	10	0	55	0	0	10	100	1	1	1	15	0	5	5	11	5	28	10% fine qz + silica stringers
[illegible]	40	0.1	0.21	90	10	0.2	1	0	0.2	0	171	1	0.27	5	70	0.04	5	0	20	0	0	2	10	10	1	0	5	0	5	5	1	5	2	15% Qzvns; 5% chdy vns
[illegible]	200	0.1	0.16	160	30	0.2	1	0	0.2	0	139	5	0.9	5	1530	0.05	5	0	25	0	0	5	90	6	1	0	10	0	5	5	1	5	4	Scor. in country rock
[illegible]	140	0.1	0.28	74	20	0.2	1	0	0.2	0	132	22	6.79	5	1200	0.1	5	0	25	0	0	6	140	2	2	0	6	0	5	5	1	5	24	Fault, loc. gouge, dk limonite
[illegible]	140	0.2	0.3	176	10	0.2	1	0	0.2	0	113	23	9.42	5	1450	0.07	5	0	25	0	0	6	260	2	12	0	23	0	5	5	3	5	24	Loc. brecc zone; fault?
[illegible]	5	0.1	0.29	34	20	0.2	1	0	0.2	0	236	12	1.42	5	300	0.11	5	0	10	0	0	3	30	4	1	0	6	0	5	5	3	5	2	Dissem. sulphides near vein
[illegible]	4140	1.8	0.26	10000	60	0.2	64	0	0.2	0	172	81	2.66	5	90	0.15	10	0	5	0	0	1	70	122	18	1	8	0	5	5	3	5	2	Fine As along fractures, vns
[illegible]	335	0.2	0.21	2200	40	0.2	4	0	0.2	1	221	9	0.75	5	1160	0.07	10	0	10	0	0	3	70	16	2	0	12	0	5	5	2	5	2	Strong chdy, tr asp
[illegible]	100	0.1	0.17	186	50	0.2	1	0	0.2	0	212	3	0.55	5	760	0.07	5	0	10	0	0	3	80	6	4	0	16	0	5	5	3	5	2	Brec. QPC, fault gouge
[illegible]	15	0.1	0.14	470	30	0.2	1	0	0.2	0	186	15	4.72	5	620	0.06	5	0	15	0	0	3	470	2	12	0	9	0	5	5	13	5	4	Brec Qvns, QPC
[illegible]	15	0.1	0.25	46	10	0.2	1	0	0.2	0	182	12	0.86	5	190	0.06	5	0	5	0	0	3	90	2	1	0	11	0	5	5	3	5	2	Dissem. sulphides
[illegible]	20	0.1	0.27	56	30	0.2	1	0	0.2	0	214	4	0.92	5	170	0.13	10	0	5	0	0	2	60	24	2	0	7	0	5	5	4	5	2	Local Py. boxwork
[illegible]	1680	0.6	0.3	10000	60	0.2	18	0	0.2	0	183	16	2.09	5	180	0.21	10	0	5	0	0	1	50	26	16	0	13	0	5	5	3	5	2	Frac. cont. Py boxwork
[illegible]	25	0.1	0.2	48	40	0.2	1	0	0.2	0	217	1	0.29	5	1340	0.08	5	0	10	0	0	3	40	22	1	0	14	0	5	5	1	5	2	Chdy along fractures
[illegible]	2640	5.6	0.17	10000	90	0.2	58	0	0.2	0	112	14	4.97	5	180	0.32	5	0	5	0	0	0	160	670	26	3	20	0	5	5	7	5	2	Comp grab; source furthur upslope
[illegible]	370	0.2	0.41	134	10	0.2	1	0	0.2	2	39	13	15	5	10	0.07	5	0.04	75	0	0	7	130	1	1	0	9	0	5	5	2	5	30	Fcrete; Qz-Py veins nearby
[illegible]	240	30	0.17	10000	10	0.2	1	0.19	12.5	0	90	25	3.33	5	20	0.1	5	0	45	0	0	1	80	10600	28	0	122	0	5	5	0	5	166	Fairly abundant rubblecrop
[illegible]	1780	92	0.14	10000	20	0.2	1	0	25	0	8	276	15	5	160	0.06	5	0	15	0	0	0	60	9420	192	1	5	0	5	5	3	5	394	Qz-as vein gouge, stringers?
[illegible]	770	52.2	0.16	10000	5	0.2	1	0	73	2	81	70	8.94	5	260	0.04	5	0.01	15	0	0	0	60	13400	120	0	6	0	5	5	1	5	3390	Vein, frac. cont sulphides
[illegible]	655	36	0.57	10000	30	0.2	1	0.01	6.5	4	72	80	6.14	5	40	0.07	5	0.18	90	0	0	5	120	12100	56	1	24	0	5	5	5	5	520	Vein, frac. cont sulphides
[illegible]	1880	149	0.21	10000	10	0.2	1	0	45	0	45	91	13.2	5	440	0.09	5	0	25	0	0	0	70	75700	304	0	16	0	5	5	1	5	1680	Frac. cont. sulphides
[illegible]	1680	28.8	0.1	10000	10	0.2	1	0	12	1	40	83	11.3	5	50	0.03	5	0	40	0	0	0	80	11500	144	0	5	0	5	5	0	5	298	Qz-as vein gouge,
[illegible]	740	5	0.1	10000	5	0.2	66	0	0.2	0	26	433	15	5	5	0	5	0	15	0	0	0	150	478	112	3	1	0	5	5	8	5	8	Single float piece
[illegible]	4140	11.4	0.21	10000	30	0.2	18	0.02	2.5	4	15	60	10.15	5	140	0.11	5	0	55	0	0	0	200	6240	468	0	64	0	5	5	0	5	354	Qz-as vein in QBM dyke
[illegible]	1140	4.4	0.08	10000	10	0.2	134	0	0.2	16	62	55	5.27	5	5	0.03	5	0	15	0	0	4	100	238	28	0	4	0	5	5	1	5	4	Large Qz-as vein in rcrop
[illegible]	40	0.6	0.34	620	40	0.2	1	0.01	0.2	0	39	7	1.27	5	5	0.17	10	0.01	5	0	0.03	0	390	142	1	0	17	0	5	5	1	5	14	Pervasive mod. scor. alter
[illegible]	140	0.2	0.55	564	30	0.2	1	0	0.2	0	44	7	1.36	5	5	0.18	20	0.03	5	0	0.01	0	490	60	1	1	6	0	5	5	3	5	8	Reduced to pasty rubble
[illegible]	215	0.6	0.28	8390	40	0.2	12	0	0.2	2	105	26	2.35	5	130	0.11	10	0.01	30	0	0	3	110	20	6	0	38	0	5	5	7	5	2	Qz-as veins along fault planes
[illegible]	150	0.2	0.29	8730	40	0.2	6	0	0.2	2	148	10	1.14	5	30	0.14	10	0.01	10	0	0	3	60	34	2	0	7	0	5	5	3	5	2	Fracture cont. Py, As
[illegible]	170	0.1	0.21	7970	30	0.2	6	0	0.2	0	139	11	1.3	5	80	0.12	10	0.01	10	0	0	2	100	16	4	0	18	0	5	5	2	5	2	Fracture cont. Py, As
[illegible]	15	0.1	0.16	136	10	0.2	1	0	0.2	1	145	7	1.01	5	30	0.02	5	0	15	0	0	3	30	10	1	0	6	0	5	5	2	5	2	Dissem. m.gr. Py, conc. al veins
[illegible]	50	0.2	0.23	3430	40	0.2	6	0	0.2	1	134	13	1.12	5	40	0.14	10	0.01	10	0	0	1	130	14	2	0	8	0	5	5	3	5	2	Frac. cont. interstitial pyrite
[illegible]	30	0.1	0.3	4210	40	0.2	8	0	0.2	1	164	14	1.33	5	60	0.19	10	0.01	15	0	0	3	140	8	2	0	9	0	5	5	3	5	2	Frac. cont. interstitial pyrite
[illegible]	30	0.1	0.47	130	10	0.5	2	0	0.2	19	132	25	9.77	5	5	0.09	10	0	360	0	0	46	230	10	2	1	8	0	5	5	3	5	354	qtz vn-n/90
[illegible]	5	0.1	0.27	92	10	0.2	1	0	0.2	3	220	9	1.24	5	5	0.06	10	0	110	0	0	7	70	2	1	0	10	0	5	5	3	5	10	phy/ss contact w/ sk vns
[illegible]	25	1.2	0.67	1085	50	0.2	2	0.05	0.5	0	71	11	1.27	5	5	0.31	30	0.04	35	1	0	1	140	758	72	0	13	0	5	5	1	5	66	mineral. dike
[illegible]	125	0.1	0.99	122	30	0.5	1	0.01	0.2	12	48	30	6.22	5	5	0.23	30	0.3	220	0	0.02	27	330	8	1	2	15	0	5	5	10	5	90	open fracts, bornite?-on frac
[illegible]	150	0.1	0.77	494	50	0.2	1	0.03	0.2	1	68	18	1.83	5	5	0.33	30	0.07	55	0	0	1	230	16	12	1	9	0	5	5	1	5	20	mineral. dike
[illegible]	30	1	0.35	2260	10	0.2	16	0	0.2	3	188	10	1.38	5	5	0.06	5	0.01	70	0	0	6	100	78	2	0	14	0	5	5	3	5	28	As-frac. controlled
[illegible]	5	0.1	0.17	150	5	0.2	1	0.04	0.2	1	273	4	0.77	5	5	0.03	5	0	60	0	0	5	260	6	1	0	9	0	5	5	1	5	6	stmg fracts
[illegible]	5	0.2	2.4	18	30	0.2	1	0.05	0.2	10	103	65	7.47	5	5	0.13	40	0.88	725	0	0.04	50	410	14	1	2	15	0	5	5	19	5	130	
[illegible]	5	0.1	0.41	14	10	0.2	1	0.01	0.2	4	183	10	2.2	5	5	0.07	10	0	160	0	0	10	130	2	1	1	14	0	5	5	8	5	18	skvns in qpc
[illegible]	5	0.1	0.51	362	10	0.2	1	0	0.2	6	153	12	3.91	5	10	0.08	10	0	390	0	0	18	180	6	2	1	40	0	5	5	12	5	42	Frac + vn controlled arseno
[illegible]	2040	6	0.07	10000	5	0.2	346	0	0.2	0	16	36	15	5	10	0.04	5	0	40	0	0	0	10	104	94	1	5	0	10	5	0	5	2	scor. along gouge zone
[illegible]	2170	1.2	0.32	498	30	0.2	1210	0.01	0.2	3	154	34	3.02	5	5	0.12	10	0.01	115	0	0	24	220	376	12	0	5	0	5	5	4	5	20	stmg fracts
[illegible]	340	0.1	0.41	4050	10	0.2	10	0	0.2	3	136	13	1.83	5	5	0.08	10	0.01	55	0	0	7	110	4	2	0	8	0	5	5	7	5	18	
[illegible]	1640	7.2	0.32	10000	30	0.2	542	0	0.2	0	58	85	12.25	5	5	0.11	5	0.01	75	1	0	7	200	100	78	1	12	0	5	5	4	5	10	scor. w. phy
[illegible]	25	0.1	0.21	400	10	0.2	2	0	0.2	4	127	3	1.14	5	10	0.04	10	0	125	0	0	8	40	1	1	0	14	0	5	5	2	5	18	
[illegible]	55	0.1	0.86	980	30	0.5	2	0	0.2	29	68	96	4.53	5	5	0.16	30	0.13	595	0	0.03	49	220	22	2	2	18	0	5	5	17	5	122	
[illegible]	210	3.6	0.14	10000	20	0.2	422	0	0.2	0	115	33	2.17	5	5	0.07	5	0	15	0	0	1	50	64	12	0	14	0	5	5	1	5	2	
[illegible]	980	2	0.22	10000	30	0.2	114	0	0.2	0	56	113	9.75	5	5	0.09	10	0	45	0	0	0	100	94	48	1	9	0	5	5	2	5	8	
[illegible]	5	0.1	0.2	388	10	0.2	1	0	0.2	3	192	2	1.3	5	5	0.03	10	0.02	570	0	0	7	70	4	1	0	4	0	5	5	3	5	30	63/62 se
[illegible]	10	0.1	0.58	1290	5	0.2	2	0.02	0.2	1	166	5	1.11	5	5	0.04	10	0.18	240	0	0.01	7	70	2	1	0	4	0	5	5	4	5	18	near vn 795R
[illegible]	5	0.1	0.66	60	10	0.2	1	0.03	0.2	2	165	4	1.23	5	10	0.05	10	0.25	305	0	0.01	9	180	1	1	0	4	0	5	5	5	5	20	frac. w/skvns
[illegible]	20	0.1	0.54	222	10	0.2	1	0.02	0.2	4	188	12	1.39	5	5	0.01	10	0.21	900	5	0.03	8	110	12	1	1	3	0	5	5	8	5	26	
[illegible]	5	0.1	0.24	52	5	0.2	1	0.01	0.2	2	205	5	0.64	5	5	0.04	10	0.03	125	0	0.01	4	90	2	1	0	3	0	5	5	1	5	8	
[illegible]	5	0.1	0.27	66	5	0.2	1	0	0.2	1	213	8	1.05	5	5	0.06	10	0.01	40	0	0	5	80	10	1	0	3	0	5	5	1	5	14	frac
[illegible]	5	0.1	0.32	32	5	0.2	1	0	0.2	2	197	4	1.04	5	5	0.04	10	0.03	185	0	0	7	70	1	1	0	4	0	5	5	4	5	12	

Appendix 3
Sprogge Claim Area Soil & Silt Data

Soil Sample Description Sheet

Sample	X_Coord	Y_Coord	Zone	Horizon	Depth_cm	Slope_Ang	Colour	Permafrost	Cse_Frags	Vegetation	Surf_Geol	Frag_Lith	Organics	Date	Name
0000E\8400N			9	B	10	sl	gbm		5	td		SH	5		
0025E\8400N			9	B	25	sl	gbm		5	td		SH	10		
0050E\8400N			9	B	20	sl	gbm		10	td		SH	5		
0075E\8400N			9	B	15	sl	bm		5	td		SH	10		
0100E\8400N			9	B	25	sl	bm		15	td		SH	5		
0125E\8400N			9	B	15	sl	bm			td		SH	5		
0150E\8400N			9	B	20	sl	bm		5	td		SH			
0175E\8400N			9	B	15	sl	bm		5	td		SH	5		
0200E\8400N			9	B	15	sl	bm		5	td		QTZ			
0225E\8400N			9	B	25	sl	bm		20	td		SH	5		
0250E\8400N			9	B	20	sl	bm		10	td		SLT	5		
0275E\8400N			9	B	15	sl	bm		15	td		SH	5		
0300E\8400N			9	B	15	sl	bm		5	td		SLT			
0325E\8400N			9	NS	NS	sl	NS	NS	NS	nv	NS	NS	NS		
0350E\8400N			9	B	5	st	bm		30	nv		SS			
0375E\8400N			9	NS	NS	mod	NS	NS	NS	nv	NS	NS	NS		
0400E\8400N			9	B	5	mod	bm		30	nv		LAQM			
0425E\8400N			9	B	5	mod	bm		15	nv		SS			
0450E\8400N			9	B	10	mod	bm		10	nv		SS			
0475E\8400N			9	B	10	mod	bm			nv		SH	5		
0500E\8400N			9	B	5	mod	bm		10	nv		SH	5		
0525E\8400N			9	B	5	mod	bm		10	nv		SH	10		
0550E\8400N			9	B	5	mod	bm		5	nv		SH			
0575E\8400N			9	B	5	mod	bm		5	nv		SH	10		
0600E\8400N			9	B	5	mod	bm		10	nv		SLT			
0625E\8400N			9	B	15	mod	bm		25	nv		SLT	10		
0650E\8400N			9	B	5	sl	bm		5	nv		SLT			
0675E\8400N			9	B	10	sl	bm		10	nv		SLT	5		
0700E\8400N			9	B	5	sl	bm		5	nv		SLT	10		
0000E\8500N			9	BC	30	MOD	MGY		30	NV	TF	SLT	0		
0025E\8500N			9	BC	25	MOD	TAN		25	TD	TF	SLT	5		
0050E\8500N			9	B	25	MOD	TAN		30	TD	TF	SLT	2		
0075E\8500N			9	BC	25	MOD	BUFF		60	td	TF	SLT	2		
0100E\8500N			9	BC	30	MOD	TAN		85	td	TF	SLT	0		
0125E\8500N			9	C	45	MOD	MGY		95	td	TF	SLT	0		
0150E\8500N			9	BC	40	ST	TAN		85	nv	TF	SLT	5		
0175E\8500N			9	B	45	ST	BRN		50	td	TF	SLT	5		
0200E\8500N			9	BC	40	ST	BRN		75	td	TF	SLT	5		
0225E\8500N			9	BC	30	ST	BRN		70	td	TF	LAQM	1		
0250E\8500N			9	BC	10	ST	BRN		75	nv	TF	QTZ	2		
0275E\8500N			9	NS	NS	ST	NS	NS	NS	nv	TF	NS	0		
0300E\8500N			9	BC	0	ST	BRN		60	nv	TF	LAQM	1		
0325E\8500N			9	BC	0	HT	BRN		40	td	TF	SLT/QTZ	1		
0350E\8500N			9	B	35	MOD	BRN		30	td	TF	SLT/QTZ	20		
0375E\8500N			9	B	30	MOD	BRN		60	td	TF	SLT	40		
0400E\8500N			9	NS	NS	ST	NS	NS	NS	nv	TF	NS	0		
0425E\8500N			9	B	20	ST	BRN		30	nv	TF	SLT	0		
0450E\8500N			9	BC	30	ST	BRN		85	nv	TF	SLT/LAQM	1		
0475E\8500N			9	BC	30	ST	BRN		90	nv	TF	SLT/LAQM	0		
0500E\8500N			9	BC	30	ST	BRN		85	nv	TF	SLT/LAQM	0		
0525E\8500N			9	BC	40	ST	BRN		85	nv	TF	SLT/QTZ	0		
0550E\8500N			9	BC	40	ST	BRN		85	td	TF	SLT/QTZ	0		
0575E\8500N			9	BC	50	ST	BRN		85	td	TF	SLT	0		
0600E\8500N			9	BC	40	ST	TAN		85	td	TF	SLT	0		

Soil Sample Description Sheet

Sample	X_Coord	Y_Coord	Zone	Horizon	Depth_cm	Slope_Ang	Colour	Permafrost	Cse_Frags	Vegetation	Surf_Geol	Frag_Lith	Organics	Date	Name
625E\8500N			9	B	40	MOD	TAN		70	td	TF	SLT	0		
650E\8500N			9	B	30	MOD	BUFF		5	td	TF	SLT	1		
675E\8500N			9	B	35	MOD	BUFF		40	td	TF	SLT	5		
700E\8500N			9	B	35	MOD	BUFF		40	td	TF	SLT	1		
225E\8900N			9	B	10	st	bm		5	nv		QPC	5		
325E\8900N			9	B	5	mod	gbm		10	nv		SLT			
350E\8900N			9	B	15	mod	gbm		20	nv		SLT			
375E\8900N			9	B	5	mod	gbm		5	nv		SLT			
400E\8900N			9	B	5	mod	gbm		5	nv		SLT			
425E\8900N			9	B	5	mod	gbm		5	nv		SLT			
450E\8900N			9	B	5	mod	gbm		10	nv		SLT			
475E\8900N			9	B	5	mod	gbm		5	nv		SLT			
500E\8900N			9	B	5	mod	gbm		10	nv		SLT			
525E\8900N			9	B	15	mod	bm		15	nv		SS			
550E\8900N			9	C	30	mod	gy		50	nv		SLT			
575E\8900N			9	C	10	mod	gy		40	nv		SLT			
600E\8900N			9	B	5	mod	bm		10	nv		GW			
625E\8900N			9	B	10	mod	bm		10	nv		SLT			
650E\8900N			9	C	20	mod	bm		25	nv		SLT			
675E\8900N			9	C	10	mod	bm		30	nv		SLT			
700E\8900N			9	B	5	st	bm		10	td		SLT	10		
725E\8900N			9	B	5	rt	bm		5	nv		SLT	10		
750E\8900N			9	B	10	rt	bm		10	nv		SLT	5		
775E\8900N			9	B	30	mod	bm		5	td		SLT	20		
800E\8900N			9	B	20	mod	bm		5	nv		SLT	15		
25E\8900N			9	NS	NS	mod	NS		NS	nv		NS	NS		
75E\8900N			9	NS	NS	st	NS		NS	nv		NS	NS		
25E\8900N			9	NS	NS	st	NS		NS	nv		NS	NS		
50E\8900N			9	NS	NS	st	NS		NS	nv		NS	NS		
75E\8900N			9	B	5	st	bm		20	nv		SLT	10		
25E\8900N			9	B	10	mod	bm		25	td		SLT	15		
75E\8900N			9	B	20	mod	bm		10	td		SLT	5		
00E\8900N			9	B	5	mod	gy		15	nv		SLT			
25E\8900N			9	B	5	mod	gy		10	nv		SLT			
75E\8900N			9	B	10	mod	dgy		10	nv		SLT			
025E\9100N			9	BC	0	ST	BUFF		85		TF	SLT	O		
050E\9100N			9	BC	0	ST	BUFF		85		TF	SLT	O		
075E\9100N			9	BC	0	ST	BUFF		85	TD	TF	SLT	O		
100E\9100N			9	BC	5	ST	BUFF		80	TD	TF	SLT	O		
125E\9100N			9	BC	5	ST	bm		80	TD	TF	SLT	O		
175E\9100N			9	BC	5	ST	bm		80		TF	SLT	O		
200E\9100N			9	BC	0	ST	bm		80		TF	SLT	O		
225E\9100N			9	BC	0	ST	bm		80		TF	QM	O		
275E\9100N			9	BC	0	ST	TAN		70		TF	SLT	O		
300E\9100N			9	BC	30	ST	TAN		80		TF	SLT	2		
325E\9100N			9	BC	35	ST	BUFF		80	TD	TF	SLT	2		
350E\9100N			9	BC	30	GEN	BRN		60	TD	TF	SLT	5		
375E\9100N			9	BC	20	MOD	BUFF		70	TD	TF	SLT	10		
400E\9100N			9	BC	15	ST	BUFF		80	TD	TF	SLT	50		
425E\9100N			9	BC	30	ST	GY		80	TD	TF	SLT	40		
450E\9100N			9	B	20	ST	MGY		70	TD	TF	SLT	40		
475E\9100N			9	B	20	MOD	MGY		60	TD		SLT	2		
500E\9100N			9	B	30	MOD	MGY		60	TD		SLT	2		
525E\9100N			9	B	35	MOD	BRN		50	TD		SLT	40		

Soil Sample Description Sheet

Sample	X_Coord	Y_Coord	Zone	Horizon	Depth_cm	Slope_Ang	Colour	Permafrost	Cse_Frags	Vegetation	Surf_Geol	Frag_Lith	Organics	Date	Name
550E\9100N			9	B	20	VF/FL	BRN		40	TD		SLT	40		
575E\9100N			9	B	15	VF/FL	BUFF		5	TD	TF	SLT	40		
600E\9100N			9	B	10	VF/FL	BRN		30	TD	TF	SLT	10		
625E\9100N			9	B	0	ST	BRN		60		TF	AQM	0		
650E\9100N			9	NS	NS							NS			
675E\9100N			9	B	5	ST	BRN		60		TF	AQM	0		
700E\9100N			9	NS	NS		NS					NS			
725E\9100N			9	B	0	ST	BRN		60		TF	QM	0		
750E\9100N			9	B	0	ST	BRN		60		TF	QM	2		
775E\9100N			9	B	0	ST	BRN		60		TF	QM	2		
800E\9100N			9	B	0	ST	TAN		60		TF	QM	2		
50E\9100N			9	BC	0	FL	BRN		90	TD	TF	SLT			
25E\9100N			9	BC	0	ST	BRN		50	TD	TF	SLT			
00E\9100N			9	BC	0	ST	BRN		80	TD	TF	SLT			
50E\9100N			9	BC	5	ST	BRN		90	TD	TF	SLT			
25E\9100N			9	B	0	ST	BRN		20	TD	TF	SLT			
00E\9100N			9	BC	0	ST	BRN		70		TF	LAQM			
75E\9100N			9	BC	0	ST	BRN		90		TF	SLT			
50E\9100N			9	BC	0	ST	BRN		90	TD	TF	SLT			
25E\9100N			9	BC	0	ST	BRN		90	TD	TF	SLT			
00E\9100N			9	BC	0	ST	BRN		80	TD	TF	SLT			
75E\9200N			9	BC	0	ST	BRN		70	TD	TF	SLT			
25E\9200N			9	B	0	ST	MGY		60	TD	TF	SLT	20		
75E\9200N			9	BC	0	ST	BRN		80	TD	TF	SLT			
25E\9200N			9	NS	NS	ST	NS		NS	TD	TF				
00E\9200N			9	B	0	ST	BRN		10	TD	TF	QPC	50		
75E\9200N			9	BC	0	ST	BRN		50	TD	TF	QPC			
25E\9200N			9	B	0	ST	BRN		10	TD	TF	QPC	40		
00E\9200N			9	B	5	ST	BRN		10	TD	TF	QPC	30		
75E\9200N			9	B	0	ST	BRN		30	TD	TF	QPC	20		
50E\9200N			9	B	0	ST	BRN		30	TD	TF	SLT	20		
25E\9200N			9	NS	NS	ST	NS		NS		TF	NS			
00E\9200N			9	BC	0	ST	BRN		70		TF	QPC			
75E\9200N			9	NS	NS	ST	NS		NS		TF				
50E\9200N			9	BC	0	ST	BRN		70		TF	SLT/QPC			
25E\9200N			9	BC	0	ST	BUFF		70		TF	SLT			
75E\9300N			9	BC	30	ST	MGY		80	TD	TF	SLT	10		
25E\9300N			9	BC	0	ST	TAN		80	TD	TF	SLT			
75E\9300N			9	BC	0	MOD	MGY		80	TD	TF	SLT			
25E\9300N			9	NS	NS	ST	NS		NS		TF	NS			
75E\9300N			9	B	0	ST	BRN		60	TD	TF	SLT	1		
50E\9300N			9	BC	0	ST	BRN		60	TD	TF	SLT/QPC	1		
25E\9300N			9	BC	0	ST	BRN		70	TD	TF	QPC	50		
00E\9300N			9	BC	0	ST	BRN		50	TD	TF	SLT	30		
025E\9000N			9	C	5	mod	bm		40	nv	tf	SLT			
075E\9000N			9	C	5	st	gy		40	nv	tf	SLT			
125E\9000N			9	C	30	st	gy		50	nv	tf	SLT			
175E\9000N			9	B	15	st	bm		10	nv	tf	SLT			
225E\9000N			9	B	15	st	bm		5	nv	tf	QPC			
275E\9000N			9	B	5	st	bm		5	nv	tf	QPC			
325E\9000N			9	B	5	st	bm		15	nv	tf				
375E\9000N			9	B	5	mod	bm		10	nv	tf	SLT			
425E\9000N			9	B	10	sl	bm		10	nv	tf	SLT			
475E\9000N			9	B	5	sl	gbm		10	nv	tf	SLT			

Soil Sample Description Sheet

Sample	X_Coord	Y_Coord	Zone	Horizon	Depth_cm	Slope_Ang	Colour	Permafrost	Cse_Frags	Vegetation	Surf_Geol	Frag_Lith	Organics	Date	Name
5250E\9000N			9	B	5	sl	gbm		10	nv		SLT			
6500E\9000N			9	C	10	sl	gy		25	nv		SLT			
6750E\9000N			9	B	5	sl	gy		50	nv		SLT			
6000E\9000N			9	C	5	mod	bm		30	nv		SLT			
6250E\9000N			9	C	5	st	bm		40	nv		SLT			
6500E\9000N			9	C	5	st	gy		25	nv		SLT			
6750E\9000N			9	C	5	st	bm		25	nv		SLT			
7000E\9000N			9	C	5	st	gy		20	nv		SLT			
7250E\9000N			9	C	5	st	gy		20	nv		SLT			
7500E\9000N			9	C	5	st	bm		15	nv		SLT			
7750E\9000N			9	B	5	st	bm		10	nv		QTZ			
8000E\9000N			9	B	15	rt	bm		10	nv		SLT			
4750E\9400N			9	b	15	mod	BUFF		30	td		SLT	50		
5250E\9400N			9	bc	0	mod	TAN		50	td	tf	LQM			
4750E\9400N			9	b	10	mod	TAN		50	td		SLT	30		
5250E\9400N			9	bc	5	mod	dgy		80	td	tf	SLT	20		
4750E\9500N			9	B	15	mod	BUFF		10	td		SLT	50		
5250E\9500N			9	B	15	mod	MGY		30	td	TF	LQM	30		
4750E\9500N			9	BC	5	ST	bm		80		TF	QM	10		
5250E\9500N			9	B	15	ST	BRN		20	td		SH	50		
7750E\9500N			9	B	20	ST	MGY		60	td		SH	40		
10250E\9200N			9	B	10	sl	bm			nv		SLT			
10750E\9200N			9	B	5	sl	gy			nv		SLT			
11250E\9200N			9	B	5	sl	bm		10	nv	tf	SLT			
11750E\9200N			9	B	5	sl	bm		10	nv	tf	SLT			
12250E\9200N			9	B	5	sl	gbm			nv	tf	SLT			
12750E\9200N			9	C	5	sl	gbm		50	nv	tf	SLT			
13250E\9200N			9	C	5	sl	gy		40	nv	tf	SLT			
13500E\9200N			9	C	5	mod	gy		50	nv	tf	SLT			
13750E\9200N			9	B	5	mod	bm		15	nv	tf	SLT	10		
10250E\10000N			9	B	15	mod	bm		10	scf	ls	SLT			
10500E\10000N			9	B	10	mod	gbm		15	scf		SLT			
10750E\10000N			9	B	30	sl	gy		15	td	ls	SLT			
11000E\10000N			9	C	15	sl	bm		60	td	ls	SLT			
11250E\10000N			9	B	10	sl	bm		10	td	ls	SLT			
11500E\10000N			9	B	40	fl	bl			td	ls	SLT	10		
11750E\10000N			9	C	35	sl	bm		50	scf		SLT	5		
12000E\10000N			9	B	30	sl	dbm		10	td		SLT	15		
12250E\10000N			9	A	50	st	dbm			td		SLT	20		
12500E\10000N			9	B	5	sl	bm		5	td			5		
12750E\10000N			9	B	15	sl	bm		10	td	ls	QPC			
13000E\10000N			9	B	5	sl	bm		10	scf	ls	SLT			
13250E\10000N			9	B	30	mod	bm		10	scf	ls	SLT	15		
13500E\10000N			9	A	35	sl	dbm		5	td		SLT	30		
13750E\10000N			9	A	50	st	dbm		5	td	ls	SLT	50		
14000E\10000N			9	A	25	st	dbm		5	td	ls	SLT	25		

Soil Sample Description Sheet

amp	Au_ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn	Comments
3400N 10000E	25	0.1	1.81	82	10	0.2	1	0.04	0.2	18	26	39	4.41	5	5	0.04	30	0.8	835	0	0	44	410	20	1	2	19	0	5	5	14	5	98	
3400N 10025E	10	0.1	1.85	106	10	0.2	1	0.03	0.2	17	25	32	4.34	5	5	0.05	20	0.81	1020	0	0	40	640	20	1	1	14	0	5	5	14	5	88	
3400N 10050E	10	0.1	2.04	46	10	0.2	1	0.04	0.2	19	26	35	4.43	5	5	0.04	40	0.94	1000	0	0	44	490	18	1	1	15	0	5	5	15	5	90	
3400N 10075E	10	0.1	1.79	62	10	0.2	1	0.04	0.2	15	22	30	3.8	5	5	0.04	20	0.83	760	0	0	37	530	16	1	1	14	0	5	5	14	5	76	
3400N 10100E	15	0.1	1.93	100	20	0.2	1	0.03	0.2	17	24	30	4.2	5	5	0.05	20	0.85	1075	0	0	40	480	24	1	1	17	0	5	5	14	5	86	
3400N 10125E	10	0.1	1.89	24	20	0.2	1	0.01	0.2	17	24	29	4.08	5	10	0.03	10	0.77	1120	0	0.01	34	590	22	1	1	12	0	5	5	15	5	78	
3400N 10150E	5	0.1	1.25	48	10	0.2	1	0.03	0.2	16	21	32	3.96	5	10	0.04	30	0.47	730	0	0	39	470	16	1	1	22	0	5	5	13	5	84	
3400N 10175E	10	0.1	1.39	74	10	0.2	1	0.02	0.2	13	21	19	3.6	5	5	0.04	30	0.53	640	0	0	33	450	14	1	1	30	0	5	5	12	5	68	
3400N 10200E	140	0.2	1.1	434	30	0.2	10	0.03	0.2	17	19	34	4.12	5	10	0.04	30	0.43	1040	0	0	37	520	44	2	2	41	0	5	5	14	5	80	
3400N 10225E	55	0.1	0.68	384	20	0.2	1	0.03	0.2	16	14	30	3.42	5	5	0.04	30	0.2	1005	0	0.01	31	520	18	1	1	21	0	5	5	13	5	66	TALUS FINES
3400N 10250E	25	0.1	1.22	252	10	0.2	1	0.05	0.2	17	22	34	3.81	5	10	0.03	30	0.55	1925	0	0	37	570	32	1	3	17	0	5	5	14	5	74	TALUS FINES
3400N 10275E	10	0.1	0.53	152	20	0.2	1	0.04	0.2	11	11	20	2.1	5	5	0.03	10	0.13	1235	0	0.02	21	440	18	1	1	13	0	5	5	12	5	38	TALUS FINES
3400N 10300E	50	0.1	0.3	542	20	0.2	2	0.01	0.2	27	15	46	5.18	5	5	0.02	30	0.04	1285	0	0	61	540	20	1	2	30	0	5	5	13	5	98	
s																																		
3400N 10350E	30	0.1	0.67	468	20	0.2	1	0.01	0.2	10	10	21	3.24	5	5	0.03	20	0.12	550	0	0	18	420	24	1	1	16	0	5	5	11	5	54	TALUS/NO SOIL
s																																		CLIFF AT 350m
3400N 10400E	15	0.1	0.48	752	5	0.2	2	0	0.2	4	14	15	3.03	5	10	0.02	20	0.09	120	0	0	7	310	10	1	1	7	0	5	5	10	5	38	TALUS
3400N 10425E	15	0.1	0.6	360	10	0.2	6	0.01	0.2	11	13	21	3.32	5	30	0.03	30	0.13	475	0	0	21	410	14	1	1	10	0	5	5	12	5	50	TALUS FINES
3400N 10450E	20	0.1	0.73	282	30	0.2	4	0.01	0.2	12	13	18	2.63	5	5	0.03	20	0.14	1000	0	0.01	16	400	18	1	1	9	0	5	5	12	5	48	TALUS FINES
3400N 10475E	10	0.1	1.12	186	40	0.2	6	0.02	0.2	15	38	33	4.35	5	20	0.03	30	0.14	565	0	0.01	40	680	12	1	3	36	0	5	5	49	5	58	
3400N 10500E	15	0.1	1.54	304	40	0.2	2	0.05	0.2	19	26	37	4.17	5	10	0.05	30	0.49	765	0	0	34	670	26	1	3	20	0.01	5	5	23	5	82	
3400N 10525E	85	0.1	1.74	634	30	0.2	8	0.04	0.2	29	29	63	5.7	5	10	0.04	30	0.6	880	0	0	48	620	32	1	3	15	0	5	5	20	5	114	
3400N 10550E	10	0.1	1.79	168	30	0.2	1	0.04	0.2	17	25	30	3.81	5	10	0.05	20	0.58	1150	0	0.01	28	690	22	1	2	12	0.01	5	5	20	5	80	
3400N 10575E	10	0.1	1.76	186	30	0.2	2	0.04	0.2	17	27	31	3.96	5	10	0.04	30	0.6	820	0	0	33	600	22	1	2	15	0	5	5	19	5	84	
3400N 10600E	5	0.1	1.71	166	30	0.2	2	0.05	0.2	15	25	31	3.96	5	5	0.04	20	0.58	880	0	0.01	30	660	20	1	1	13	0	5	5	19	5	80	
3400N 10625E	5	0.1	1.65	118	30	0.2	1	0.05	0.2	13	22	26	3.43	5	10	0.04	10	0.52	835	0	0.02	24	700	18	1	1	11	0	5	5	16	5	66	
3400N 10650E	5	0.1	1.7	154	30	0.2	2	0.04	0.2	16	26	31	3.89	5	10	0.04	20	0.58	840	0	0	30	610	20	1	1	14	0	5	5	18	5	78	
3400N 10675E	5	0.1	1.79	176	40	0.2	1	0.02	0.2	11	24	25	3.91	5	10	0.05	10	0.46	705	0	0.01	23	900	18	1	0	11	0	5	5	20	5	62	
3400N 10700E	5	0.1	1.63	98	30	0.2	1	0.03	0.2	10	26	25	3.85	5	10	0.04	10	0.48	390	0	0	26	630	16	1	0	9	0.01	5	5	24	5	74	
3500N 10000E	5	0.1	3.09	30	10	0.2	1	0.1	0.2	19	42	44	5.58	5	5	0.05	10	1.24	675	0	0.01	53	560	18	1	2	10	0	5	5	18	5	118	
3500N 10025E	75	0.1	1.93	206	20	0.2	1	0.06	0.2	19	26	43	4.74	5	5	0.05	10	0.73	575	0	0	42	430	28	1	3	23	0	5	5	13	5	108	
3500N 10050E	30	0.1	1.77	302	30	0.2	1	0.01	0.2	17	24	34	4.33	5	5	0.06	30	0.58	820	0	0	35	720	28	1	1	17	0	5	5	12	5	84	
3500N 10075E	50	0.1	1.87	318	20	0.2	1	0.05	0.2	21	27	46	4.87	5	5	0.04	30	0.74	685	0	0	46	410	32	1	3	22	0	5	5	13	5	114	
3500N 10100E	20	0.1	1.83	148	20	0.2	1	0.07	0.2	19	25	34	4.14	5	5	0.04	20	0.85	1210	0	0	40	570	22	1	2	14	0	5	5	16	5	82	
3500N 10125E	5	0.1	1.88	24	10	0.2	1	0.07	0.2	19	29	46	4.81	5	5	0.05	20	0.78	930	0	0	46	490	20	1	3	28	0	5	5	15	5	104	dry stream bed
3500N 10150E	5	0.1	2.11	32	10	0.2	1	0.05	0.2	22	30	40	4.91	5	10	0.03	20	0.97	1540	0	0	48	620	30	1	2	12	0	5	5	16	5	98	
3500N 10175E	5	0.1	1.89	34	10	0.2	1	0.03	0.2	20	29	42	4.85	5	10	0.04	20	0.87	1185	0	0	46	740	16	1	1	10	0	5	5	16	5	92	
3500N 10200E	30	0.1	1.52	56	10	0.2	1	0.08	0.2	23	25	53	4.87	5	5	0.03	40	0.67	1120	0	0	49	490	28	1	2	25	0	5	5	14	5	108	
3500N 10225E	5	0.1	0.52	72	10	0.2	1	0.03	0.2	26	18	45	5.37	5	5	0.03	40	0.19	1315	0	0	57	530	18	1	3	27	0	5	5	14	5	106	
3500N 10250E	90	0.1	0.76	586	30	0.2	2	0.03	0.2	20	17	35	4.52	5	20	0.05	30	0.28	1165	0	0	45	460	44	1	3	29	0	5	5	12	5	90	
s																																		
3500N 10300E	5	0.1	0.65	124	20	0.2	1	0.01	0.2	19	16	36	4.49	5	5	0.04	30	0.22	1135	0	0	34	550	20	1	2	17	0	5	5	13	5	94	no sample/ talus
3500N 10325E	5	0.1	0.4	130	30	0.2	1	0	0.2	15	14	35	4.21	5	10	0.03	10	0.04	475	0	0	27	590	10	1	1	8	0	5	5	20	5	74	
3500N 10350E	100	0.1	1.01	548	50	0.2	6	0.02	0.2	16	20	37	4.91	5	10	0.05	10	0.25	1005	0	0	35	640	16	2	2	32	0	5	5	20	5	92	
3500N 10375E	75	0.1	0.75	506	40	0.2	6	0.01	0.2	19	20	45	4.89	5	5	0.05	30	0.15	945	0	0	35	630	30	2	2	27	0	5	5	16	5	88	
s																																		
3500N 10425E	30	0.1	1.16	180	30	0.2	4	0.02	0.2	20	21	37	4.78	5	20	0.06	30	0.33	1175	0	0	36	630	24	2	3	27	0.01	5	5	21	5	98	no sample/ talus
3500N 10450E	890	0.6	0.96	542	50	0.2	12	0.02	0.2	23	19	48	5.07	5	30	0.06	40	0.28	1060	0	0	43	470	26	6	3	35	0	5	5	17	5	110	
3500N 10475E	-1	0.2	0.56	310	30	0.2	2	0.02	0.2	21	13	39	4.31	5	5	0.06	30	0.13	870	0	0.02	38	480	24	8	3	19	0	5	5	14	5	98	
3500N 10500E	310	0.1	1.01	424	30	0.2	4	0.02	0.2	21	19	39	4.57	5	10	0.05	30	0.31	1010	0	0.01	35	560	28	4	2	16	0	5	5	15	5	96	
3500N 10525E	-1	0.1	1.14	306	30	0.2	6	0.11	0.2	24	22	43	4.62	5	30	0.06	30	0.35	1185	0	0	41	950	28	2	3	27	0	5	5	16	5	142	
3500N 10550E	70	0.1	1.16	298	30	0.2	8	0.03	0.2	20	23	39	4.69	5	10	0.05	30	0.37	885	0	0	40	550	32	2	2	20	0.01	5	5	19	5	104	
3500N 10575E	10	0.1	2.17	180	30	0.5	1	0.06	0.2	32	36	68	5.93	5	5	0.04	30	0.77	915	0	0	59	590	28	1	4	24	0	5	5	23	5	132	
3500N 10600E	25	0.1	1.88	180	30	0.2	2	0.06	0.2	30	32	58	5.44	5	10	0.04	30	0.69	820	0	0	54	570	30	1	3	23	0	5	5	20	5	124	

Soil Sample Description Sheet

amp	Au_ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn	Comments
3500N 10625E	40	0.1	1.6	158	40	0.2	1	0.04	0.2	24	29	49	5.11	5	10	0.04	30	0.56	935	0	0	47	550	32	2	3	24	0	5	5	19	5	114	
3500N 10650E	75	0.1	1.16	110	30	0.2	1	0.01	0.2	15	18	27	3.52	5	5	0.03	10	0.36	625	0	0	28	510	22	1	1	15	0	5	5	14	5	72	
3500N 10675E	60	0.1	1.08	80	30	0.2	1	0.03	0.2	8	13	19	2.44	5	5	0.03	10	0.24	310	0	0.01	17	400	16	1	1	10	0	5	5	11	5	44	
3500N 10700E	60	0.1	1.6	122	30	0.2	1	0.01	0.2	15	26	31	4.34	5	10	0.03	10	0.55	660	0	0	37	530	24	1	2	12	0	5	5	16	5	90	
3900N 10225E	5	0.1	0.65	22	10	0.2	1	0.05	0.2	14	11	12	2.24	5	5	0.02	30	0.17	760	0	0	19	230	10	1	1	9	0	5	5	8	5	40	7m south of station
3900N 10325E	5	0.1	2.43	132	10	0.2	1	0.06	0.2	16	35	43	4.69	5	5	0.04	50	0.98	595	0	0.02	40	460	40	1	2	10	0	5	5	19	5	98	TALUS FINES
3900N 10350E	20	0.1	2.49	38	20	0.5	1	0.04	0.2	32	37	55	5.68	5	10	0.04	50	1.05	965	0	0	51	610	20	1	2	14	0	5	5	18	5	114	TALUS FINES
3900N 10375E	10	0.1	2.56	30	10	0.2	1	0.06	0.2	29	38	45	5.62	5	10	0.04	40	1.1	900	0	0	53	420	16	1	2	10	0	5	5	17	5	118	TALUS FINES
3900N 10400E	5	0.1	1.9	54	20	0.2	1	0.04	0.2	12	26	35	3.8	5	5	0.04	30	0.74	495	0	0.03	30	540	32	1	1	10	0	5	5	16	5	70	TALUS FINES
3900N 10425E	10	0.1	2.59	34	20	0.2	1	0.06	0.2	18	36	55	5	5	5	0.04	30	1.07	760	0	0.01	43	510	50	1	2	10	0	5	5	18	5	104	TALUS FINES
3900N 10450E	5	0.1	1.7	36	40	0.2	2	0.06	0.2	13	22	39	3.13	5	5	0.04	10	0.65	490	0	0.03	25	460	42	1	1	9	0	5	5	14	5	62	TALUS FINES
3900N 10475E	10	0.1	1.76	24	30	0.2	1	0.06	0.2	14	23	34	3.25	5	5	0.04	20	0.7	550	0	0.03	27	440	38	1	1	7	0	5	5	14	5	68	TALUS FINES
3900N 10500E	20	0.1	2.45	318	20	0.2	1	0.04	0.2	25	35	56	5.59	5	5	0.02	30	1.15	1020	0	0	51	280	26	1	2	11	0	5	5	15	5	140	TALUS FINES
3900N 10525E	350	0.8	0.81	1730	30	0.5	2	0.04	0.2	26	14	68	5.52	5	5	0.05	30	0.36	925	0	0	43	330	202	24	3	22	0	5	5	9	5	208	TALUS FINES
3900N 10550E	30	0.1	1.5	56	30	0.2	1	0.03	0.2	19	27	50	4.59	5	10	0.07	30	0.87	570	0	0.01	42	380	12	2	2	11	0.01	5	5	19	5	96	TALUS FINES/P.S
3900N 10575E	5	0.1	1.34	6	30	0.5	1	0.08	0.2	15	32	17	3.7	5	10	0.06	20	0.97	835	0	0.01	38	500	10	1	3	12	0.02	5	5	22	5	74	TALUS FINES/P.S
3900N 10600E	5	0.1	1.8	1	60	0.2	1	0.42	0.2	28	115	22	5.34	5	5	0.04	20	1.67	1545	0	0	99	1440	12	1	8	14	0.03	5	5	47	5	96	TALUS FINES
3900N 10625E	5	0.1	1.2	1	60	0.2	1	1.85	0.2	19	74	7	4.64	5	5	0.05	40	1.93	885	0	0	60	1260	10	1	5	29	0.02	5	5	34	5	68	TALUS FINES
3900N 10650E	5	0.1	0.52	56	20	0.2	1	3.09	0.2	11	7	47	2.75	5	20	0.04	10	1.85	735	1	0	25	950	22	4	5	27	0	5	5	9	5	68	TALUS FINES
3900N 10675E	5	0.1	1.47	2	30	0.5	1	0.17	0.2	24	19	169	4.9	5	10	0.05	40	1.03	1900	0	0	39	480	22	1	4	22	0	5	5	15	5	94	TALUS FINES/P.S
3900N 10700E	5	0.1	1.55	2	50	0.5	1	0.05	0.2	16	22	59	4.23	5	90	0.06	10	0.6	2870	0	0	22	1320	28	1	1	8	0	5	5	22	5	58	TALUS FINES/P.S
3900N 10725E	5	0.1	1.55	6	30	0.2	1	0.01	0.2	9	21	22	3.79	5	30	0.05	10	0.5	440	0	0	20	1310	18	1	0	5	0	5	5	17	5	52	
3900N 10750E	5	0.1	1.65	18	30	0.2	1	0.07	0.2	11	21	27	2.91	5	5	0.06	10	0.64	340	0	0.02	27	830	24	1	1	10	0.01	5	5	16	5	70	
3900N 10775E	5	0.1	1.87	16	30	0.2	1	0.03	0.2	11	28	24	4.28	5	50	0.04	5	0.58	595	0	0	23	1820	28	1	1	4	0	5	5	18	5	72	B/A MIX
3900N 10800E	5	0.1	1.7	58	40	0.2	1	0.05	0.2	18	21	28	3.86	5	20	0.04	10	0.47	830	1	0	24	860	22	2	0	8	0.01	5	5	23	5	76	B/A MIX
S																																		TALUS/NO SOIL
S																																		TALUS/NO SOIL
S																																		TALUS/NO SOIL
S																																		TALUS/NO SOIL
8900N 9775E	50	0.1	1.51	60	20	0.2	1	0.04	0.2	16	21	32	3.81	5	30	0.04	10	0.57	755	0	0	32	650	16	1	2	7	0	5	5	17	5	76	T.F/P.S/BC MIX
8900N 9825E	10	0.1	0.98	30	20	0.2	1	0.01	0.2	16	24	37	4.07	5	10	0.05	30	0.22	860	0	0	38	840	14	1	1	8	0	5	5	16	5	80	P.S/B/C/A/MIX
8900N 9875E	5	0.1	1.53	22	10	0.5	1	0	0.2	19	24	50	5.72	5	5	0.04	50	0.49	475	0	0	56	590	14	1	5	9	0	5	5	16	5	100	
8900N 9900E	5	0.1	0.81	36	10	0.5	1	0	0.2	9	19	45	3.72	5	5	0.05	50	0.15	230	0	0	29	560	34	2	5	15	0	5	5	13	5	62	P.S
8900N 9925E	40	0.1	0.57	64	10	0.2	1	0	0.2	9	18	35	3.69	5	5	0.06	50	0.07	275	0	0	25	520	30	2	4	23	0	5	5	12	5	54	
8900N 9975E	150	0.1	0.66	286	30	0.2	4	0	0.2	8	18	44	4.58	5	50	0.05	40	0.12	250	1	0	18	640	50	2	3	141	0	5	5	13	5	48	
9100N 10025E	5	0.1	2.72	36	10	0.2	1	0.09	0.2	23	35	54	5.14	5	10	0.03	30	1.38	1490	0	0	49	520	26	1	1	14	0	5	5	18	5	110	
9100N 10050E	5	0.1	2.65	30	20	0.2	1	0.09	0.2	28	33	68	5.14	10	30	0.04	40	1.28	1455	0	0	54	510	28	1	1	15	0	5	5	17	5	110	
9100N 10075E	25	0.1	2.91	34	20	0.5	1	0.08	0.2	27	35	64	5.25	5	10	0.05	30	1.38	1370	0	0	51	470	28	1	2	12	0	5	5	18	5	106	
9100N 10100E	5	0.1	2.12	52	10	0.2	1	0.09	0.2	26	29	62	5.14	5	10	0.03	50	1	1335	0	0	51	510	28	1	2	16	0	5	5	16	5	108	
9100N 10125E	5	0.1	2.64	34	10	0.2	1	0.06	0.2	24	33	62	5.02	5	10	0.04	40	1.25	1320	0	0	51	420	26	1	1	11	0	5	5	17	5	98	
9100N 10175E	5	0.1	1.72	56	20	0.2	1	0.03	0.2	20	22	41	4.09	5	10	0.03	40	0.76	1250	1	0	41	330	26	1	1	18	0	5	5	12	5	82	
9100N 10200E	5	0.1	1.96	74	10	0.2	1	0.02	0.2	20	24	28	4.76	5	10	0.03	30	0.9	1405	0	0	66	290	16	1	1	9	0	5	5	15	5	92	
9100N 10225E	10	0.1	1.09	154	10	0.2	1	0.05	0.2	17	21	43	4.37	5	5	0.04	20	0.42	960	1	0	38	540	18	1	2	9	0	5	5	13	5	98	
9100N 10275E	10	0.1	1.46	98	20	0.2	1	0.08	0.2	26	21	53	5.26	5	5	0.04	40	0.64	840	0	0	45	420	30	1	2	14	0	5	5	11	5	112	
9100N 10300E	5	0.1	2.45	46	30	0.2	1	0.06	0.2	15	33	34	4.65	5	10	0.04	40	1	510	0	0	39	500	24	1	1	10	0	5	5	15	5	96	
9100N 10325E	5	0.1	2.88	40	10	0.2	1	0.07	0.2	23	37	56	5.44	5	10	0.05	40	1.21	765	0	0	48	440	26	1	1	9	0	5	5	17	5	118	
9100N 10350E	5	0.1	2.11	26	20	0.2	1	0.02	0.2	14	30	38	4.69	5	10	0.05	30	0.82	545	0	0	35	680	18	1	1	8	0	5	5	16	5	84	
9100N 10375E	5	0.1	3.18	34	10	0.2	1	0.1	0.2	23	42	63	5.94	10	5	0.03	60	1.32	735	0	0	51	550	28	1	2	9	0	5	5	19	5	136	
9100N 10400E	5	0.1	1.96	28	40	0.2	1	0.05	0.2	12	26	36	3.69	5	5	0.04	10	0.78	405	0	0	31	460	26	1	1	9	0	5	5	12	5	76	
9100N 10425E	5	0.1	2.94	34	20	0.5	1	0.05	0.2	26	39	65	5.59	5	5	0.04	50	1.21	895	1	0	49	430	110	1	2	9	0	5	5	18	5	126	
9100N 10450E	5	0.1	2.7	20	20	0.2	1	0.05	0.2	21	35	47	5.07	5	10	0.04	40	1.1	760	1	0	44	400	26	1	1	10	0	5	5	17	5	112	
9100N 10475E	5	0.1	3.08	18	10	0.2	1	0.05	0.2	23	42	57	5.74	10	5	0.03	40	1.27	710	0	0	51	390	24	1	2	9	0	5	5	19	5	126	
9100N 10500E	5	0.1	3.15	26	10	0.2	1	0.05	0.2	24	43	59	5.9	10	5	0.03	40	1.31	735	0	0	53	400	24	1	2	8	0	5	5	20	5	132	
9100N 10525E	10	0.1	2.54	22	10	0.2	1	0.07	0.2	25	35	48	4.95	5	5	0.02	30	1.07	720	0	0	45	480	20	1	1	7	0	5	5	17	5	106	

Soil Sample Description Sheet

samp	Au_ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn	Comments
9100N 10550E	5	0.1	2.05	204	20	0.2	1	0.04	0.2	16	27	28	4.01	5	5	0.03	10	0.85	665	0	0	31	430	24	1	1	7	0	5	5	14	5	82	
9100N 10575E	5	0.1	2.29	178	30	0.2	1	0.01	0.2	14	36	67	5.3	5	10	0.03	10	0.89	695	2	0	33	890	110	1	1	6	0	5	5	18	5	96	
9100N 10600E	5	0.1	2.64	76	30	0.2	1	0.08	0.2	14	37	36	4.95	10	5	0.02	30	1.1	565	0	0	41	370	32	1	1	10	0	5	5	16	5	108	
9100N 10625E	5	0.1	2.14	4	10	0.2	1	0.04	0.2	16	23	36	4.15	5	5	0.05	30	0.85	685	0	0	36	420	56	1	1	6	0	5	5	13	5	94	no sample/ talus
tS																																		
9100N 10675E	5	0.1	2.01	414	20	0.2	1	0.07	0.2	17	28	29	4.65	5	10	0.07	30	0.82	555	0	0	37	330	14	1	1	9	0	5	5	14	5	82	no sample/ talus
tS																																		
9100N 10725E	5	0.1	1.18	60	20	0.2	1	0.1	0.2	18	18	33	3.85	5	10	0.06	30	0.44	465	0	0	37	430	20	1	1	12	0	5	5	10	5	70	
9100N 10750E	5	0.1	1.24	70	20	0.2	1	0.1	0.2	22	17	26	4.11	5	10	0.06	30	0.48	590	0	0	39	350	20	1	1	13	0	5	5	10	5	60	
9100N 10775E	5	0.1	0.74	76	30	0.2	2	0.06	0.2	12	7	15	2.28	5	20	0.05	10	0.14	705	0	0.04	19	360	8	1	1	9	0	5	5	8	5	34	
9100N 10800E	5	0.1	0.9	148	20	0.2	2	0.06	0.2	17	12	22	3.27	5	10	0.05	20	0.27	865	0	0	27	260	16	2	1	10	0	5	5	7	5	50	
9100N 9950E	5	0.1	0.63	18	20	0.2	4	0.01	0.2	21	19	49	3.69	5	10	0.04	30	0.17	1195	1	0	37	350	16	1	2	8	0	5	5	12	5	76	
9100N 9925E	20	0.1	1.1	32	50	0.5	1	0.05	0.2	27	20	71	6.05	5	10	0.04	30	0.33	1070	0	0.01	57	610	14	1	3	27	0	5	5	15	5	92	
9100N 9900E	40	0.1	0.78	72	20	0.2	2	0	0.2	7	15	43	5.19	5	30	0.06	20	0.34	225	2	0	18	660	74	6	1	14	0	5	5	8	5	60	
9100N 9850E	15	0.1	0.39	54	50	0.2	1	0.01	0.2	20	19	56	5.34	5	10	0.06	30	0.05	695	1	0	48	640	26	1	4	177	0	5	5	18	5	110	
9100N 9825E	30	0.1	0.43	442	30	0.2	2	0	0.2	8	14	50	3.07	5	80	0.08	10	0.04	100	0	0	19	480	14	2	1	22	0	5	5	11	5	52	
9100N 9800E	410	0.1	0.47	600	70	0.2	12	0	0.2	7	8	44	9.17	5	210	0.05	20	0.04	200	1	0	15	900	58	2	1	54	0	5	5	9	5	52	
9100N 9775E	155	0.2	0.52	228	40	0.2	6	0.02	0.2	24	18	74	5.3	5	20	0.06	10	0.09	680	1	0	46	740	20	2	4	40	0	5	5	15	5	102	
9100N 9750E	185	0.2	0.68	224	20	0.5	1	0.01	0.2	23	22	81	6	5	30	0.03	10	0.15	565	0	0	40	830	30	1	5	19	0	5	5	23	5	104	
9100N 9725E	50	0.1	0.3	2310	30	0.2	6	0.04	0.2	21	16	55	5.28	5	50	0.06	10	0.05	605	1	0	42	620	60	1	1	11	0	5	5	11	5	116	
9100N 9700E	25	0.2	0.36	132	20	0.2	2	0.03	0.2	13	13	52	3.62	5	50	0.06	10	0.06	325	1	0	25	610	34	2	2	16	0	5	5	11	5	70	
9200N 9975E	70	0.1	1.14	228	30	0.2	2	0.08	0.2	13	19	35	3.65	5	10	0.07	30	0.35	565	0	0.01	28	510	46	2	1	39	0	5	5	11	5	82	
9200N 9925E	10	0.1	1.11	30	30	0.2	1	0.04	0.2	16	18	57	5.08	5	10	0.05	30	0.49	635	0	0	34	450	32	1	1	12	0	5	5	9	5	88	
9200N 9875E	20	0.1	0.93	46	20	0.2	1	0.01	0.2	17	18	53	5.4	5	10	0.05	30	0.31	605	1	0	32	590	58	1	2	17	0	5	5	11	5	106	
tS																																		
tS																																		no sample/ talus
9200N 9775E	170	0.1	0.46	276	30	0.2	6	0.06	0.2	13	13	49	3.85	5	50	0.08	10	0.07	340	1	0	26	740	18	1	1	25	0	5	5	9	5	68	SAMPLED (didn't send/lost)
9200N 9725E	30	0.1	0.45	50	30	0.2	6	0	0.2	6	11	50	3.46	5	110	0.05	10	0.04	105	0	0	14	680	18	1	1	16	0	5	5	11	5	36	
9200N 9700E	10	0.1	0.47	50	10	0.2	1	0.02	0.2	12	13	56	4.26	5	90	0.03	20	0.07	210	0	0	28	690	12	2	1	13	0	5	5	13	5	72	
9200N 9675E	240	0.1	0.38	78	20	0.2	6	0.01	0.2	12	11	62	4.38	5	60	0.05	10	0.04	245	1	0	26	740	34	1	1	19	0	5	5	11	5	64	
9200N 9650E	160	0.1	0.38	64	20	0.2	2	0	0.2	11	10	46	3.93	5	110	0.04	20	0.04	235	1	0	24	650	18	2	0	19	0	5	5	13	5	58	
tS																																		
9200N 9600E	20	0.1	0.34	56	30	0.2	1	0.01	0.2	8	12	38	2.81	5	60	0.07	10	0.03	135	1	0	20	560	20	1	1	29	0	5	5	9	5	46	no sample/ talus
tS																																		
9200N 9550E	195	0.1	0.32	88	40	0.2	2	0.01	0.2	3	7	30	2.52	5	110	0.06	20	0.03	45	1	0	8	600	10	6	1	63	0	5	5	9	5	14	no sample/ talus
9200N 9525E	5	0.1	0.34	72	30	0.2	2	0	0.2	0	9	21	1.49	5	60	0.1	20	0.01	20	1	0	4	420	10	1	1	38	0	5	5	8	5	6	
9300N 9975E	30	0.1	2.03	52	20	0.2	1	0.07	0.2	15	26	32	3.84	5	40	0.05	10	0.9	940	0	0	33	580	26	1	1	15	0	5	5	13	5	80	
9300N 9925E	35	0.1	1.07	144	10	0.2	1	0.06	0.2	21	22	50	4.61	5	5	0.02	30	0.45	1080	0	0	44	480	26	1	2	13	0	5	5	12	5	108	
9300N 9875E	40	0.1	0.86	42	10	0.2	1	0	0.2	15	17	54	5.02	5	10	0.04	20	0.31	530	1	0	31	580	42	1	1	16	0	5	5	10	5	96	
tS																																		
9300N 9775E	40	0.1	0.52	34	20	0.2	1	0.02	0.2	5	8	25	2.22	5	70	0.05	10	0.04	90	0	0.03	11	630	8	1	0	11	0	5	5	13	5	32	no sample/ talus
9300N 9750E	65	0.1	0.58	70	30	0.2	4	0.01	0.2	8	12	45	3.23	5	110	0.06	20	0.07	200	0	0	18	710	18	1	1	25	0	5	5	11	5	42	
9300N 9725E	730	0.1	0.57	422	50	0.2	10	0.01	0.2	4	11	37	3.63	5	220	0.06	10	0.06	85	0	0	10	880	20	2	0	24	0	5	5	14	5	28	
9300N 9700E	30	0.1	0.66	40	30	0.2	2	0.01	0.2	5	13	49	3.34	5	80	0.07	10	0.07	95	1	0	14	1170	18	1	1	23	0	5	5	11	5	30	
9000N 10025E	5	0.1	2.41	32	10	0.2	1	0.1	0.2	30	30	65	5.28	5	5	0.03	30	1.1	1250	1	0	53	500	28	1	1	11	0	5	5	16	5	110	TALUS FINES
9000N 10075E	15	0.1	0.5	106	10	0.2	1	0.06	0.2	17	15	35	3.44	5	5	0.03	40	0.15	900	0	0	30	510	10	2	1	11	0	5	5	10	5	66	
9000N 10125E	130	0.1	1.02	124	10	0.2	1	0.03	0.2	22	23	52	4.68	5	30	0.04	30	0.35	715	0	0	39	500	40	1	2	14	0	5	5	13	5	100	
9000N 10175E	5	0.1	2.68	40	10	0.2	1	0.08	0.2	25	33	61	5.13	10	10	0.03	40	1.35	1500	0	0	52	460	24	1	1	13	0	5	5	18	5	108	
9000N 10225E	5	0.1	1.49	84	30	0.2	1	0.05	0.2	23	21	42	4.66	5	10	0.03	20	0.56	1290	0	0	40	590	10	2	1	10	0	5	5	14	5	92	
9000N 10275E	5	0.1	1.61	40	10	0.2	1	0.08	0.2	16	23	26	3.55	5	10	0.04	30	0.66	775	0	0	30	380	12	1	1	12	0	5	5	12	5	78	
9000N 10325E	5	0.1	1.9	22	20	0.2	1	0.03	0.2	15	24	35	3.82	5	10	0.04	20	0.78	525	0	0.02	32	570	18	1	1	10	0	5	5	13	5	82	
9000N 10375E	5	0.1	2.53	26	30	0.2	1	0.05	0.2	22	34	47	4.88	5	10	0.05	40	1.04	720	0	0.01	43	500	22	1	2	17	0	5	5	20	5	104	TALUS FINES
9000N 10425E	5	0.1	2.5	120	30	0.2	1	0.05	0.2	13	31	30	4.38	5	5	0.04	40	0.97	480	0	0.01	35	460	26	1	1	12	0	5	5	16	5	90	
9000N 10475E	5	0.1	3.03	172	10	0.2	1	0.05	0.2	29	43	75	6.48	5	5	0.03	40	1.23	775	0	0	61	450	34	1	2	11	0	5	5	20	5	150	

Soil Sample Description Sheet

Samp	Au_ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn	Comments
9000N 10525E	5	0.1	3.06	26	10	0.2	1	0.06	0.2	20	40	47	5.57	5	5	0.03	30	1.28	805	1	0	48	400	32	1	1	6	0	5	5	19	5	124	
9000N 10550E	5	0.1	1.79	302	40	0.2	1	0.03	0.2	18	25	40	4.49	5	10	0.03	10	0.8	665	0	0	38	280	34	1	1	11	0	5	5	12	5	114	PS/CBA MIX/TF
9000N 10575E	5	0.1	1.4	1	40	0.2	1	1.22	0.2	20	59	6	3.48	5	5	0.02	10	1.84	980	0	0	67	1240	6	1	5	21	0.01	5	5	26	5	74	
9000N 10600E	5	0.1	1.26	38	40	0.5	1	0.23	0.2	18	17	76	3.92	5	30	0.04	10	0.76	1290	0	0	35	610	24	1	4	14	0	5	5	14	5	94	PS/CB/TF
9000N 10625E	5	0.1	2.27	1	50	0.5	1	0.03	0.2	21	24	75	4.44	5	30	0.05	20	1.12	2630	0	0	34	920	34	1	3	8	0	5	5	18	5	88	PS/CB/TF
9000N 10650E	5	0.1	2.06	1	80	0.5	1	0.1	0.2	21	23	76	4.33	5	30	0.05	30	0.99	1480	0	0	40	530	10	1	2	13	0	5	5	14	5	98	PS/CB/TF
9000N 10675E	5	0.1	1.82	6	20	0.2	1	0.06	0.2	16	18	34	3.6	5	10	0.04	30	0.72	650	0	0.01	33	410	50	1	1	9	0	5	5	13	5	84	PS/CB/TF
9000N 10700E	5	0.1	2.16	8	10	0.2	1	0.06	0.2	16	23	30	3.94	5	5	0.04	40	0.89	630	0	0	38	410	60	1	1	7	0	5	5	13	5	90	PS/CB/TF
9000N 10725E	5	0.1	2.2	34	10	0.2	1	0.11	0.2	17	31	25	4.29	5	5	0.04	20	0.9	515	0	0	34	440	12	1	1	10	0	5	5	14	5	86	PS/CB/TF
9000N 10750E	5	0.1	1.45	128	10	0.5	1	0.1	0.2	21	22	30	4.96	5	10	0.04	30	0.51	765	1	0	39	450	22	1	2	11	0	5	5	13	5	78	PS/CB/TF
9000N 10775E	5	0.1	0.97	68	10	0.5	1	0.04	0.2	17	14	43	3.97	5	10	0.04	40	0.21	575	1	0	36	510	12	1	1	10	0	5	5	11	5	64	PS/BC/TF
9000N 10800E	5	0.1	1.74	16	10	0.2	1	0.02	0.2	13	24	30	3.93	5	10	0.04	5	0.63	335	0	0	33	440	20	1	0	4	0	5	5	13	5	92	
9400N 9975E	5	0.1	2.19	18	10	0.2	1	0.09	0.2	18	28	41	4.09	5	10	0.03	10	1.04	850	0	0	38	340	20	1	1	11	0	5	5	14	5	86	
9400N 9925E	50	0.1	0.46	130	10	0.2	1	0	0.2	3	1	11	2.21	5	30	0.07	10	0.07	195	0	0	3	510	20	1	1	3	0	5	5	3	5	36	
9400N 9875E	30	0.1	1.31	126	20	0.2	1	0.05	0.2	11	18	29	3.24	5	10	0.03	20	0.48	560	0	0.01	23	450	22	1	1	14	0	5	5	13	5	64	
9400N 9825E	40	0.1	0.9	58	10	0.2	1	0.01	0.2	14	16	49	4.65	5	10	0.04	20	0.32	470	1	0	30	490	32	2	1	15	0	5	5	10	5	96	
9500N 9975E	5	0.1	2.34	38	10	0.2	1	0.04	0.2	17	29	30	4.69	5	5	0.03	40	1.06	875	0	0	41	380	20	1	1	9	0	5	5	13	5	90	
9500N 9925E	20	0.1	0.25	220	20	0.2	1	0.01	0.2	12	11	28	3.59	5	10	0.05	40	0.03	500	0	0	25	420	28	1	3	9	0	5	5	8	5	68	
9500N 9875E	120	0.2	0.9	354	60	1	8	0.08	0.5	21	5	33	4.41	5	80	0.07	40	0.12	2490	1	0.03	18	850	120	1	2	16	0	5	5	12	5	148	
9500N 9825E	10	0.1	1.04	36	30	0.2	1	0.01	0.2	4	13	19	2.54	5	20	0.03	5	0.29	180	1	0.01	10	690	12	1	0	6	0	5	5	12	5	38	
9500N 9775E	15	0.1	0.41	10	20	0.2	1	0	0.2	14	5	31	2.21	5	5	0.04	10	0.09	295	0	0	15	190	22	1	1	16	0	5	5	4	5	60	
9200N 10025E	5	0.1	2.37	30	10	0.2	1	0.06	0.2	20	30	46	4.64	5	10	0.03	30	1.13	1005	0	0	42	500	22	1	1	11	0	5	5	16	5	98	
9200N 10075E	5	0.1	2.5	46	10	0.2	1	0.1	0.2	23	33	55	5	5	5	0.03	40	1.18	1125	1	0	47	500	24	1	1	13	0	5	5	16	5	110	
9200N 10125E	5	0.1	2.48	24	10	0.2	1	0.08	0.2	20	30	46	4.75	10	10	0.04	30	1.16	1330	0	0	50	390	18	1	1	14	0	5	5	15	5	96	TF
9200N 10175E	5	0.1	2.22	172	20	0.2	1	0.07	0.2	17	27	36	4.12	5	30	0.05	30	0.98	1230	0	0.01	45	430	22	1	1	12	0	5	5	14	5	84	
9200N 10225E	5	0.1	2.38	46	10	0.2	1	0.09	0.2	21	36	46	5.4	5	5	0.03	60	1	670	0	0	49	550	16	1	1	9	0	5	5	16	5	128	
9200N 10275E	5	0.1	2.72	16	10	0.2	1	0.06	0.2	15	39	31	5.09	10	10	0.04	40	1.12	620	0	0	41	440	22	1	1	8	0	5	5	16	5	114	P.S/T.F
9200N 10325E	5	0.1	2.86	18	10	0.2	1	0.07	0.2	27	41	61	5.53	10	5	0.03	30	1.28	815	0	0	51	360	32	1	2	5	0	5	5	20	5	130	P.S/T.F
9200N 10350E	5	0.1	2.22	1	50	0.5	1	0.04	0.2	18	33	45	4.65	5	5	0.01	10	0.94	500	0	0	42	250	6	1	1	3	0	5	5	14	5	106	P.S/T.F
9200N 10375E	5	0.1	1.82	2	20	0.2	1	0.03	0.2	14	26	38	3.38	5	20	0.02	10	0.79	485	0	0.01	29	440	6	1	1	4	0	5	5	15	5	78	P.S/T.F
0000N 10025E	5	0.1	1.98	512	10	0.2	1	0.03	0.2	18	28	26	5.44	5	10	0.04	30	0.88	760	0	0	35	660	28	1	1	4	0	5	5	18	5	90	
0000N 10050E	5	0.1	2.04	68	10	0.2	1	0.01	0.2	17	30	33	4.48	5	10	0.04	20	1.01	590	0	0	38	490	20	1	1	10	0	5	5	16	5	98	
0000N 10075E	5	0.1	0.95	10	50	0.2	1	0.01	0.2	2	7	4	1.05	5	5	0.04	30	0.11	130	0	0	4	330	8	1	0	7	0	5	5	15	5	14	
0000N 10100E	5	0.1	1.54	74	20	0.2	1	0.03	0.2	10	23	14	3.63	5	5	0.05	10	0.63	700	0	0	20	500	34	1	1	6	0	5	5	21	5	54	
0000N 10125E	5	0.1	0.56	14	10	0.2	1	0.02	0.2	2	5	4	0.94	5	5	0.04	10	0.11	145	0	0.02	4	560	8	1	0	4	0	5	5	10	5	12	
0000N 10150E	5	0.4	1.41	706	100	0.5	1	0.54	0.2	12	17	56	2.42	5	10	0.08	5	0.36	390	0	0.03	16	1120	52	1	2	32	0	5	5	10	5	38	
0000N 10175E	5	0.1	0.75	508	90	0.5	1	0.53	0.2	12	7	43	4.08	5	10	0.04	10	0.25	875	0	0	28	850	36	1	6	21	0	5	5	7	5	78	P.S
0000N 10200E	5	0.2	1.24	54	50	0.2	1	0.8	0.2	8	6	18	2.78	5	10	0.02	10	0.16	1185	0	0	13	860	36	1	2	18	0	5	5	8	5	52	P.S
0000N 10225E	5	0.1	0.6	26	30	0.2	1	0.09	0.2	5	5	5	1.27	5	20	0.03	5	0.14	555	0	0.02	6	1070	12	1	0	7	0	5	5	9	5	24	P.S
0000N 10250E	5	0.1	1.79	158	10	0.2	1	0.1	0.2	14	29	37	3.75	5	10	0.02	10	0.81	390	0	0	37	680	18	1	1	6	0	5	5	15	5	76	
0000N 10275E	5	0.1	0.38	6	5	0.2	1	0.02	0.2	0	0	0	0.5	5	10	0.01	5	0.05	40	0	0.02	1	270	2	1	0	3	0	5	5	4	5	2	
0000N 10300E	5	0.1	1.46	88	40	0.2	1	0.02	0.2	7	21	16	3.22	5	5	0.03	10	0.42	280	0	0	16	630	34	1	0	5	0	5	5	21	5	56	
0000N 10325E	5	0.1	2.24	158	20	0.2	1	0.15	0.2	18	61	42	5.73	5	20	0.07	10	1.26	915	0	0	46	1060	24	1	2	7	0	5	5	24	5	96	
0000N 10350E	5	0.1	1	46	30	0.2	1	2.25	0.2	6	5	15	2.09	5	50	0.03	10	0.28	360	0	0.03	13	840	12	1	2	127	0	5	5	7	5	62	P.S
0000N 10375E	5	0.1	0.55	16	30	0.2	1	3.24	0.2	5	2	14	1.57	5	40	0.03	5	0.2	600	0	0.03	13	770	16	1	1	166	0	5	5	5	5	36	P.S
0000N 10400E	5	0.1	1.27	36	40	0.5	1	2.79	0.2	16	14	43	4.41	5	60	0.07	20	0.6	215	0	0.01	41	810	26	1	4	149	0	5	5	10	5	106	P.S

Silt Sample Description Sheet

mple_No	X_Coord	Y_Coord	Traverse	Zone	Fines	Colour	Date	Name
f7980T			9	80		red		

Silt Sample Description Sheet

AMP	Au ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn	Comments
17980T	10	0.1	1.47	42	10	0.2	1	0.14	0.2	24	20	43	5.94	5	5	0.01	10	0.63	1615	0	0	43	470	44	1	1	17	0	5	5	10	5	122	Entry of spring WNW of #2, Sprogge #74

Appendix 4 & 5
Justin Claim Area Rock and Soil Data

093783

Appendix 4
Justin Claim Area Rock Data

Rock Sample Description Sheet

Sample	X_Coord	Y_Coord	Traverse	Zone	Type	Width_m	Desc	Fm	Lithology	Modifier	Colour	Carb	Silicif	Alt_ARG	Alt_POT	Alt_PHY	Limonite	Mineral_1	M1_Amt	Mineral_2	M2_Amt	Mineral_3	M3_Amt	Date	Name
388251R				9	cg	3	oc	PrCh	slt	frac	grn			A3			strg	hem	12	MnO	2	As	2	09-02-97	GMG
388252R				9	rc	1.5	oc	PrCh	ss	frac	gry		S2				wk	hem	2	As	35			09-03-97	GMG
388253R				9	rc	1	rb	PrCh	ss	frac	buff		S2				wk	hem	2	As	25			09-03-97	GMG
388254R				9	rc	1.5	oc	PrCh	ss	c.sil	brn			A3			strg	hem	15	po	2	As	1	09-03-97	GMG
388255R				9	rc	1	oc	PrCh	slt	frac	buff			A3			mod	hem	2	As	20			09-03-97	GMG
388256R				9	rc	1.5	oc	PrCh	slt	frac	gry		S1	A2			mod	hem	5	As	25			09-03-97	GMG
388257R				9	rc	1.5	oc	PrCh	slt	c.sil	brn		S1	A3			strg	hem	20	po	2	p	tr	09-03-97	GMG
388258R				9	rc	5	rb	PrCh	ss	frac	wh		S3	A3			wk	hem	2	As	10			09-03-97	GMG
388259R				9	rc	1	oc	PrCh	slt	frac	buff			A3			wk	hem	2	As	12			09-03-97	GMG
388260R				9	rc	1	oc	PrCh	lst	frac	gry		S4				wk	hem	3	As	tr			09-03-97	GMG
388261R				9	rc	1.5	oc	PrCh	qpc	frac	brn		S1	A3			wk	hem	3	p	1	As	tr	09-04-97	GMG
388262R				9	rc	1.5	oc	PrCh	qpc	frac	brn		S1	A2			wk	hem	3	p	1	As	tr	09-04-97	GMG
388263R				9	cg		ti	PrCh	phy	frac	gry					ph4	mod	hem	10	po	1	p	1	09-04-97	GMG
388264R			Sn-97-3	9	rc	1.5	oc	PrCh	qpc	frac	tan		S3	A2			wk	hem	2	po	tr			09-05-97	GMG
388265R			Sn-97-3	9	rc	1.5	oc	PrCh	qpc	vns	tan		S3	A2			wk	hem	3	po	tr			09-05-97	GMG
388266R			Sn-97-3	9	rc	2	oc	PrCh	qpc	frac	tan		S3	A3			wk	hem	1	p	tr			09-05-97	GMG
388267R			Sn-97-3	9	rc	2	oc	PrCh	qpc	frac	tan		S3	A2			wk	hem	2	p	tr			09-05-97	GMG
388268R			Sn-97-3	9	rc	2	oc	PrCh	qpc	vns	tan		S3	A2			wk	hem	2	p	tr			09-05-97	GMG
388269R			Sn-97-3	9	rc	2	oc	PrCh	qpc	frac	tan		S2	A2			wk	hem	2					09-05-97	GMG
388301R			Sn-97-1	9	rc	1	oc	PrCh	slt	go	brn						mod	hem	8	po	1	p	tr	09-05-97	GMG
388302R			Sn-97-1	9	rc	1	oc	PrCh	qpc	frac	brn		S1				mod	hem	5	p	3	MnO	2	09-05-97	GMG
388303R			Sn-97-1	9	rc	1	oc	PrCh	qpc	frac	tan		S1				mod	hem	7	p	5	MnO	2	09-05-97	GMG
388304R			Sn-97-1	9	rc	1	oc	PrCh	qpc	frac	tan		S1			ph1	mod	hem	4	p	5	MnO	2	09-05-97	GMG
388305R			Sn-97-1	9	rc	1	oc	PrCh	qpc	frac	tan		S1			ph1	mod	hem	7	p	7	As	tr	09-05-97	GMG
388306R			Sn-97-2	9	rc	1.5	oc	PrCh	qpc	frac	brn			A3			mod	hem	5	MnO	2	p	tr	09-05-97	GMG
388307R			Sn-97-2	9	rc	1.5	oc	PrCh	qpc	c.sil	brn		S1			ph4	mod	hem	7	MnO	1			09-05-97	GMG
388308R			Sn-97-2	9	rc	1.5	oc	PrCh	slt	frac	brn		S1	A3			wk	hem	4	MnO	2	p	1	09-05-97	GMG
388309R			Sn-97-2	9	rc	1.5	oc	PrCh	slt	c.sil	blk			A2		ph4	mod	hem	5	po	<1	p	2	09-05-97	GMG
388310R			Sn-97-2	9	rc	1.5	oc	PrCh	slt	c.sil	blk			A2		ph4	mod	hem	8	po	1	p	4	09-05-97	GMG
388311R			Sn-97-2	9	rc	1.5	oc	PrCh	slt	c.sil	brn		S1	A2			wk	hem	7	MnO	1	p	3	09-05-97	GMG
388312R			Sn-97-2	9	rc	1.5	oc	PrCh	slt	c.sil	brn		S1	A2			wk	hem	5	p	2			09-05-97	GMG
388313R			Sn-97-2	9	rc	1.5	oc	PrCh	slt	c.sil	brn		S1	A2		ph1	wk	hem	6	po	tr	p	2	09-05-97	GMG
388314R			Sn-97-2	9	rc	1.5	oc	PrCh	slt	c.sil	brn		S2			ph1	wk	hem	9	MnO	2	p	3	09-05-97	GMG
388315R			Sn-97-2	9	rc	1	oc	PrCh	slt	c.sil	brn		S2				mod	hem	8	MnO	2	p	9	09-05-97	GMG
388451R			L 11600N	9	cg		ta	PrCh	PHY	Sk	dgy		S1				str	Po	20	Cp	1	P	4	09-01-97	CS
388452R			L 11600N	9	c	1.6	Oc	Kqm	QPM	Frac	tan			A4		Ph3	mod	P	2					09-01-97	CS
388453R			L 11600N	9	cg		Rc	Kqm	QPM	Vned	lbrn		S3	A3		Ph3	str	As	15	P	15			09-01-97	CS
388454R			L 11600N	9	c	1.4	Oc	Kqm	QPM	Frac	tan		S3	A3		Ph2	wk	As	4	P	1			09-01-97	CS
388455R			L 11600N	9	c	1.6	Oc	Kqm	QPM	Frac	tan		S2	A3		Ph2	mod	As	5	P	2			09-01-97	CS
388456R			L 11600N	9	c	1.2	Oc	Kqm	QPM	Frac	buff		S3	A3		Ph2	mod	P	6					09-01-97	CS
388457R			L 11600N	9	cg		Fl	Kqm	QPM	Vned	lgy		S4	A3			wk	As	10	P	8			09-01-97	CS
388458R			L 11600N	9	c	1.1	Oc	PrCh	PHY	Brec	lgy		S4				str	P	15	Cp	<1			09-01-97	CS
388459R			L11400N	9	cg		Rc	PrCh	PHY	Vned	gry		S1	A3			wk	As	10	P	tr			09-02-97	CS
388460R			L11400N	9	cg		Rc	PrCh	PHY	Sn	brn			A1			str	As	8					09-02-97	CS
388461R			L11400N	9	cg		Rc	PrCh	PHY	Vn	gry							As	35					09-02-97	CS
388462R			L11400N	9	c	0.5	ta	PrCh	PHY	Sn	grn							As	7	P	2	Cp	tr	09-02-97	CS
388463R			L11400N	9	c	1.1	Oc	PrCh	PHY	Sn	brn							As	15	P	<1			09-02-97	CS
388464R			L11400N	9	c	1.7	Oc	PrCh	PHY	Sn	brn		S1	A2			str	As	2	P	7			09-02-97	CS
388465R			L11200N	9	cg		ta	PrCh	SS	Sn	grn	C1	8				str	Cp	2	P	6			09-02-97	CS
388466R			L11200N	9	cg		Rc	PrCh	PHY	Vned	brn		S1	A3			str	As	15	P	2	Cp	<1	09-02-97	CS
388467R			L11200N	9	cg		Rc	PrCh	PHY	Brec	grn		S2				str	As	20	P	2	Cp	tr	09-02-97	CS
388468R			L11200N	9	g		Oc	PrCh	LST	Frac	grn	C2	S2					As	8					09-02-97	MR
388469R			L11200N	9	c	1.9	Oc	PrCh	LPHY	Brec	dbn		S1	A3			str	As	1	Cp	<1	P	1	09-03-97	CS

Rock Sample Description Sheet

Sample	X_Coord	Y_Coord	Traverse	Zone	Type	Width_m	Desc	Fm	Lithology	Modifier	Colour	Carb	Silicif	Alt_ARG	Alt_POT	Alt_PHY	Limonite	Mineral_1	M1_Amt	Mineral_2	M2_Amt	Mineral_3	M3_Amt	Date	Name
388470R			L11200N	9	c	1.6	Oc	PrCh	LPHY	Brec	dbn			A3			str	As	1	P	<1			09-03-97	CS
388471R			L11200N	9	c	1.5	Oc	PrCh	LPHY	Frac	dbn		S2	A2			str	As	<1	Cp	1	Po	3	09-03-97	CS
388472R			L11200N	9	c	1.9	Oc	PrCh	LPHY	Sn	dgn		S2	A2			str	As	1	Cp	1	Po	3	09-03-97	CS
388473R			L11200N	9	c	1.3	Oc	PrCh	LPHY	Frac	mgy		S2	A2			mod	As	25	P	3			09-03-97	CS
388474R			L11200N	9	c	1.8	Oc	PrCh	LPHY	Fol	mbn			A3			str	As	8	P	3			09-03-97	CS
388475R			L11200N	9	c	1.5	Oc	PrCh	LPHY	Sn	gm		S1	A1			str	As	1	Cp	2	Po	4	09-03-97	CS
388476R			L11200N	9	cg		Rc	PrCh	PHY	Vn	gm			A3				As	8					09-03-97	CS
388477R			L11200N	9	c	0.4	Oc	PrCh	PHY	Brec	gry		S3				wk	As	25	Cp	2	P	5	09-03-97	CS
388478R			L11200N	9	c	1	Oc	PrCh	PHY	Fol	gm		S3	A1			str	As	2	P	10	Cp	3	09-03-97	CS
388479R			L11200N	9	cg		Rc	PrCh	PHY	Frac	dgy		S2					As	15	P	1			09-03-97	CS
388480R			9400N	9	g		Fl	PrCh	Vn	Band	mgy							Mo	35	P	3			09-04-97	CS
388481R			9400N	9	ch	0.6	Oc	PrCh	QPC	Frac	buff		S4	A3			wk	As	1	P	3			09-04-97	CS
388482R			9400N	9	ch	0.8	Oc	PrCh	QPC	Frac	buff		S3	A3			wk	P	5					09-04-97	CS
388483R			9400N	9	cg		Ta	PrCh	QPC	Frac	buff		S3	A3			wk	As	tr	P	tr			09-04-97	CS
388484R			9400N	9	cg		Ta	PrCh	QPC	Frac	yel		S3	A4			wk	As	3	P	tr			09-04-97	CS
388485R			9400N	9	cg		Ta	PrCh	QPC	Frac	lgm		S3	A4				As	4	P	tr			09-04-97	CS
388486R			9400N	9	cg		Ta	PrCh	QPC	Frac	lgm		S3	A3			wk	As	5					09-04-97	CS
388487R			9400N	9	cg		Ta	PrCh	QPC	p	yel		S2	A4				As	<1					09-04-97	CS
388488R			C	9	cg		Ta	PrCh	SS	Frac	buff		S2	A3			wk	As	5					09-05-97	CS
388489R			C	9	cg		Oc	PrCh	PHY	Brec	brn			A1			str	Po	25	Ga	4			09-05-97	CS
389279R				9	rc	1	oc	PrCh	ss	Brec	tan		S1			ph1	wk	hem	4	p	2	MnO	2	31/8/97	GMG
389280R				9	rc	3	oc	PrCh	slt	go	yellow			A3		ph3	wk	hem	20	MnO	5			31/8/97	GMG
389281R				9	rc	1	oc	PrCh	slt	frac	tan			A3		ph3	mod	hem	2					31/8/97	GMG
389282R			L11400N	9	rc	5	oc	PrCh	ss	frac	gry		S2				mod	hem	10	MnO	2	As	tr	09-01-97	GMG
389283R			L11400N	9	cg		tf	PrCh	qpc	frac	buff		S3	A3			wk	hem	7	MnO	2	As	tr	09-01-97	GMG
389284R			L11400N	9	cg		tf	PrCh	ss	frac	brn		S2	A2			wk	hem	3	p	1	As	tr	09-01-97	GMG
389285R			L11400N	9	cg		tf	PrCh	ss	frac	buff		S1				mod	hem	3	p	1			09-01-97	GMG
389286R			L11400N	9	rc	2	oc	PrCh	phy	frac	gry			A3		ph4	mod	hem	3	p	1			09-01-97	GMG
389287R			L11400N	9	rc	10	oc	PrCh	ss	frac	gry		S2				mod	p	tr	hem	7	As	tr	09-01-97	GMG
389288R				9	rc	7	oc	Kqm	qm	frac	wh			A3			wk	p	tr					09-01-97	GMG
389289R				9	rc	3	oc	PrCh	ss	frac	brn		S1				strg	hem	20	po	1	As	tr	09-01-97	GMG
389290R				9	rc	4	oc	PrCh	ss	frac	brn		S1				mod	hem	5	p	2			09-01-97	GMG
389291R				9	rc	4	oc	PrCh	ss	vns	buff		S2	A3			mod	hem	15	p	2			09-01-97	GMG
389292R				9	rc	1	oc	PrCh	ss	frac	tan		S1				mod	hem	4	MnO	2			09-02-97	GMG
389293R				9	rc	1	oc	PrCh	lst	brec	gry		S4				wk	hem	4	MnO	1	p	2	09-02-97	GMG
389294R				9	rc	2	oc	PrCh	phy	frac	or					ph3	strg	hem	5	MnO	3	p	1	09-02-97	GMG
389295R				9	rc	4	oc	PrCh	ss	frac	or		S1	A3			strg	hem	10	p	3			09-02-97	GMG
389296R				9	rc	5	oc	Kqm	qm	frac	buff					ph1	wk	hem	4	As	tr	p	2	09-02-97	GMG
389297R				9	rc	2	oc	PrCh	ss	frac	brn		S2				strg	hem	8	MnO	1	As	tr	09-02-97	GMG
389298R				9	rc	2	oc	Kqm	qm	frac	gry					ph3	wk	hem	2	p	1			09-02-97	GMG
389299R				9	rc	3	oc	PrCh	ss	frac	gry		S4				wk	hem	2					09-02-97	GMG
389300R				9	rc	5	oc	PrCh	phy	frac	or					ph4	mod	hem	3					09-02-97	GMG

Rock Sample Description Sheet

SAMP	Au_ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn	Comments
388251R	50	9	2.37	3980	30	0.5	26	8.17	4.5	7	33	461	4.11	5	10	0.24	20	0.68	435	2	0.17	8	2820	270	6	3	280	0.04	5	5	21	5	620	bornite -1% or tr
388252R	130	0.4	1.73	10000	5	0.5	118	0.6	0.2	42	58	308	8.6	5	10	0.47	30	0.65	130	0	0.13	22	750	1	18	7	31	0.05	5	5	46	5	14	As vns-stratabound?
388253R	770	0.2	1.61	10000	10	0.5	430	0.36	0.2	141	108	35	5.9	10	10	1.23	60	1.44	155	0	0.07	33	1080	6	14	11	16	0.06	5	5	66	10	16	qtz vns -ass. w As
388254R	2	0.1	4.07	130	5	0.5	2	3.59	0.2	4	38	129	5.52	10	20	0.21	30	0.17	855	0	0.51	12	170	1	1	3	111	0.14	5	5	26	5	28	calc-sil. alt
388255R	170	1.4	0.9	10000	10	0.2	290	0.39	0.2	198	43	179	11.55	5	40	0.55	10	0.44	100	0	0	25	2040	6	42	4	12	0.04	5	5	27	5	<2	local alt- 1.5m x 1.5m
388256R	1600	1.8	1.03	10000	10	0.2	496	0.17	0.2	435	63	164	11.7	5	30	0.59	40	0.59	175	0	0.01	71	600	88	48	7	10	0.05	5	5	43	5	24	
388257R	30	1	0.85	10000	5	0.2	116	0.18	0.2	12	44	330	14.35	5	30	0.07	20	0.23	165	0	0.04	4	200	4	6	4	9	0.05	5	5	39	5	4	MnO-3%, gossan-calc-silc.
388258R	105	2.6	0.36	10000	10	0.2	68	0.04	0.2	113	79	457	5.66	5	60	0.1	5	0.15	45	0	0	17	90	34	26	1	3	0	5	5	7	5	6	mineral. control by qtz vns-As
388259R	1220	1.2	1.88	10000	10	0.5	838	0.65	0.2	299	74	259	6.26	5	40	0.71	40	0.92	120	0	0.1	97	1030	1	10	8	35	0.06	5	5	52	90	14	
388260R	10	0.1	3.22	4220	30	0.5	6	1.11	0.2	28	51	78	2.97	5	10	0.8	5	0.8	85	0	0.21	26	150	6	1	4	96	0.07	5	5	41	5	40	less As than overlying slt (259R)
388261R	20	6	0.19	346	10	0.2	1	0.03	0.2	2	66	31	1.86	5	60	0.11	5	0.01	105	0	0	7	140	1450	26	1	4	0	5	5	3	5	228	po-tr, follow up on 5620 Au anomaly
388262R	2	0.1	0.24	112	10	0.2	1	0.03	0.5	4	100	13	1.3	5	10	0.09	10	0.01	240	0	0	11	100	32	4	1	3	0	5	5	5	5	112	po-absent
388263R	25	0.2	3.86	44	40	0.5	1	1.4	0.2	6	60	61	2.95	10	5	0.68	10	0.96	115	0	0.37	18	110	12	1	5	127	0.08	5	5	42	5	32	As-arsenopy. ?-along fract.
388264R	7000	8.2	0.25	96	10	0.2	1	0.01	0.2	0	116	4	0.52	5	40	0.13	5	0.01	25	0	0	3	50	8	20	0	7	0	5	5	2	5	6	0-1.5m,thin chal.vns
388265R	85	0.1	0.29	94	20	0.2	1	0.01	0.2	1	189	5	0.9	5	10	0.15	10	0.01	185	0	0	6	110	2	1	0	6	0	5	5	3	5	18	1.5-3m, less frac.
388266R	640	0.2	0.27	50	20	0.2	1	0.01	0.2	0	126	10	0.82	5	10	0.13	10	0.01	70	0	0	4	140	14	2	0	5	0	5	5	3	5	16	5-7m,ox-p, lim alt in fract
388267R	390	0.2	0.29	56	20	0.2	1	0.01	0.2	1	115	9	0.94	5	5	0.14	10	0.01	85	0	0	5	100	10	4	0	3	0	5	5	2	5	18	7-9m, hem/lim along frac, less chal. vns.
388268R	245	0.1	0.29	82	10	0.2	1	0	0.2	1	170	19	0.9	5	5	0.14	10	0.01	80	0	0	5	100	2	2	0	3	0	5	5	3	5	12	9-11m, incre chal. vns, ox. p-1%
388269R	30	0.1	0.22	70	10	0.2	1	0.01	0.2	1	138	13	0.88	5	10	0.13	10	0.01	120	0	0	5	100	12	6	0	2	0	5	5	1	5	22	11-13m, less chal vns.
388301R	35	2.8	0.5	332	20	0.5	66	0.18	0.2	6	14	840	15	5	50	0.09	5	0.07	385	0	0	8	160	32	10	0	6	0	5	5	8	20	64	
388302R	15	2.8	0.38	96	30	0.5	40	0.02	0.2	5	62	350	10	5	10	0.24	5	0.05	555	8	0	4	250	78	2	0	3	0	5	5	2	5	86	frac. mineral.
388303R	10	0.8	0.62	146	40	0.5	2	0.06	0.2	8	84	168	3.96	5	10	0.3	10	0.06	975	4	0	6	320	32	16	1	6	0	5	5	4	5	62	incre. in py.-nonox.
388304R	30	0.8	0.33	74	30	0.2	2	0.05	0.2	4	37	67	2.22	5	5	0.22	5	0.04	415	4	0	3	260	44	30	0	3	0	5	5	1	5	38	alt./mineral.-pervasive, As-tr
388305R	10	0.8	0.42	30	30	0.2	18	0.06	0.2	2	48	86	3.91	5	5	0.24	5	0.05	535	4	0	3	310	40	2	0	4	0	5	5	3	5	36	
388306R	2360	1	0.24	302	5	0.2	628	0.03	0.2	3	61	515	11.6	5	5	0.06	5	0.01	235	0	0	1	200	54	1	0	3	0	5	5	5	650	36	
388307R	800	1	0.49	342	10	2.5	1015	1.82	0.2	14	31	1200	13.05	5	40	0.04	5	0.09	825	0	0	2	300	48	6	1	13	0.02	5	5	8	540	30	woll. on fracts-1%
388308R	5600	0.6	1.06	6	5	0.2	442	9.75	0.2	2	17	88	10.6	10	5	0.06	5	0.02	1815	0	0.01	0	260	1	1	0	4	0.01	5	5	6	40	12	bornite -1% or tr
388309R	2660	1	0.7	24	10	1.5	704	1.71	0.2	22	20	888	15	5	5	0.1	5	0.04	780	0	0.02	2	470	52	1	0	3	0.03	5	5	11	280	64	garnet-1%, woll.-1%
388310R	265	0.8	0.72	34	10	2	168	0.72	0.2	37	19	781	15	5	5	0.12	5	0.04	575	0	0.04	5	130	8	1	1	2	0.02	5	5	10	80	26	slt-must be calcareous
388311R	1600	2.4	0.8	172	10	2.5	628	1.93	0.2	12	54	475	12.6	5	10	0.1	5	0.09	1715	0	0.03	4	170	24	6	1	34	0.02	5	5	11	130	58	minor garnet
388312R	95	0.1	3	4	10	3.5	56	5.61	0.2	4	38	174	7.14	10	5	0.07	30	0.19	1445	3	0.04	7	150	6	1	3	88	0.09	5	5	28	5	74	amph.-actinolite
388313R	140	0.2	0.84	8	5	1	62	1.13	0.2	1	12	146	6.06	10	5	0.05	5	0.05	635	0	0.02	1	110	2	1	0	10	0.02	5	5	6	5	24	
388314R	125	0.6	0.66	10	5	0.5	80	4.1	0.2	2	19	624	12.9	5	5	0.1	5	0.06	930	0	0.03	0	150	1	1	0	4	0.02	5	5	8	30	10	
388315R	470	1	0.54	12	10	0.5	160	3.64	0.2	9	28	1455	15	5	5	0.17	5	0.23	1065	0	0.01	3	350	2	10	1	6	0.01	5	5	7	5	26	308R-315R-skarn alt/mineral.
388451R	10	0.1	0.75	14	10	0.5	2	0.14	0.2	5	52	14	1.04	5	10	0.06	30	0.01	310	0	0	6	470	14	1	4	5	0	5	5	9	5	40	116+00N, 95+35E; sel. cg
388452R	10	0.8	1.3	34	50	0.5	42	0.62	0.2	136	37	943	13.1	5	5	0.34	5	0.23	265	0	0.07	64	390	10	1	1	27	0.02	5	5	12	5	30	Crumbly, argillic alteration
388453R	490	12.4	0.37	30	10	0.2	424	0.08	0.2	1	75	21	2.24	5	100	0.14	5	0.02	50	30	0	2	180	438	38	0	8	0	5	5	2	590	22	Contains 3 cm wide QzAs vein
388454R	40	7.2	0.4	7260	20	0.2	24	0.01	0.2	1	32	13	1.14	5	10	0.15	5	0	20	1	0	1	100	704	4	0	5	0	5	5	0	5	24	Frac cont arsenopyrite
388455R	15	2.6	0.33	926	30	0.2	8	0	0.2	1	43	9	0.95	5	10	0.18	5	0.01	90	3	0	2	60	366	1	0	10	0	5	5	1	5	36	Frac cont arsenopyrite
388456R	40	0.2	0.31	42	10	0.2	2	0.05	0.2	0	47	5	1.17	5	50	0.12	10	0	45	1	0	1	210	18	8	1	7	0	5	5	3	5	22	Chdy veins, frac cont Py
388457R	190	6.2	0.19	4040	10	0.2	12	0.01	16.5	2	66	33	2.11	5	70	0.12	5	0.02	25	0	0	6	70	1405	18	0	3	0	5	5	2	20	2120	QzAs veins, frac cont + dissem Py
388458R	10	1.6	0.22	98	10	0.2	6	0.03	0.2	5	107	35	4.95	5	130	0.11	5	0.03	45	1	0	12	340	114	2	0	3	0	5	5	4	5	28	Brecc Py-Cp skarn along dyke
388459R	820	2.8	0.24	10000	40	0.2	608	0.03	0.2	92	4	74	14.9	5	5	0.07	5	0.01	20	0	0	9	60	26	64	1	4	0	5	5	4	5	<2	99+12E, 114+20N; scor al. mirofractures
388460R	45	0.6	2.16	10000	5	0.2	250	6.11	0.2	163	38	292	8.11	5	5	0	5	0.01	1525	0	0	6	120	1	2	3	4	0.06	5	5	18	5	4	9+10E, 114+26N; garnet skarn
388461R	340	2	0.5	10000	10	0.2	378	0.37	0.2	198	41	37	14.45	5	10	0.31	20	0.29	50	0	0	42	1500	28	60	3	18	0.01	5	5	21	5	<2	99+10E, 114+26N; QzAs vein
388462R	40	0.8	1.48	892	5	0.2	110	3.21	0.2	0	31	733	6.65	5	5	0.13	5	0.05	980	0	0.05	0	130	1	1	1	3	0.06	5	5	16	5	8	99+02E, 113+64N; large bldr
388463R	80	0.4	1.72	10000	10	0.2	240	0.99	0.2	94	30	305	10	5	5	0.26	20	0.27	375	0	0.14	10	270	2	12	3	40	0.03	5	5	24	10	16	99+21E, 113+87N; brec. As veining
388464R	10	0.4	2.06	1355	5	0.2	168	2.74	0.2	25	43	345	5.56	5	5	0.12	10	0.17	540	0	0.09	5	1360	2	1	2	45	0.05	5	5	19	30	8	99+25E, 114+14N; frac cont P; banded As
388465R	5	0.6	0.88	222	5	0.5	1	1.53	0.2	14	93	598	7.34	5	5	0.04	5	0.38	305	0	0.04	12	90	2	1	2	14	0.01	5	5	15	5	18	101+90E, 112+00N; frac. cont + dissem sulp
388466R	990	0.4	0.94	10000	5	0.2	370	0.42	0.2	118	45	237	9.03	5	5	0	10	0.45	285	0	0.03	21	370	1	16	6	9	0.01	5	5	35	5	2	99+75E, 102+00N; thin As veins
388467R	115	0.2	0.58	10000	30	0.2	206	0.13	0.2	205	65	15	5.61	5	5	0.1	10	0.45	85	0	0	43	130	1	18	3	14	0	5	5	25	5	2	99+00E, 101+95N; brec cont QzAs veins
388468R	990	3	0.33	10000	30	0.5	286	2.85	0.2	18	7	11	4.22	5	5	0.23	10	0.02	150	0	0.02	3	350	146	40	2	132	0	5	5	2	5	6	Frac cont arsenopyrite
388469R	60	1	0.66	3220	5	0.2	266	0.93	0.2	14	31	1150	13.75	10	5	0.25	5	0.07	290	0	0.02	0	660	1	1	1	11	0.07	5	5	20	5	2	98+67E, 111+82N; poss weath As

Rock Sample Description Sheet

SAMP	Au_ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn	Comments
388470R	20	0.6	0.68	4520	5	0.2	166	1	0.2	4	39	419	15	5	5	0.16	5	0.04	345	0	0.01	0	390	1	1	1	7	0.1	5	5	27	10	<2	98+68E, 111+83N; poss lge rcrop bldr
388471R	10	0.8	1.63	2450	10	0.2	134	1.9	0.2	13	44	1425	9.24	5	5	0.3	5	0.23	580	0	0.05	6	340	1	1	3	19	0.07	5	5	25	30	14	98+70E, 111+84N; sim. to above
388472R	20	1	1	1095	5	0.2	108	2.39	0.2	3	23	1245	10	5	5	0.07	5	0.01	660	0	0.01	2	690	1	1	1	6	0.06	5	5	13	5	4	98+72E, 111+85N; M388469R-72R contiguous
388473R	380	1.6	1.42	10000	5	0.5	584	0.16	0.2	460	45	304	10.65	5	5	0.28	30	0.68	170	0	0.04	81	210	8	26	5	13	0.05	5	5	39	5	8	98+45E, 112+18N; frac cont As
388474R	20	1.4	2.39	10000	10	0.5	32	1.43	0.2	10	57	834	7.01	5	5	0.45	30	0.8	615	0	0.15	22	460	2	1	6	52	0.08	5	5	48	5	30	98+40E, 112+04N; QzAs al fol
388475R	200	0.8	2.85	2830	5	0.2	588	5.04	0.2	22	37	1090	8.54	5	5	0.1	5	0.04	1280	0	0.15	5	1490	1	1	1	70	0.06	5	5	16	5	8	98+78E, 112+70N; broken Oc
388476R	1215	7.2	0.38	10000	10	0.2	480	0.01	0.2	13	16	318	13	5	60	0.15	5	0.03	25	0	0	0	150	318	150	0	1	0	5	5	4	5	6	98+65E, 112+70N; QzAs vn, str scor
388477R	155	3.4	1.52	10000	30	0.2	152	0.21	0.2	54	41	535	7.14	5	5	0.65	20	0.47	100	0	0.05	10	80	28	18	4	20	0.03	5	5	25	5	22	98+80E, 113+25N; Replacement mineraliz
388478R	45	1	0.68	4730	5	0.2	156	0.91	0.2	81	31	1820	12.6	5	5	0.11	10	0.19	305	0	0.03	10	500	2	1	3	7	0.07	5	5	17	5	18	98+52E, 112+70N;Frac. cont As
388479R	140	1.6	1.83	10000	10	0.5	70	1.54	0.2	55	82	683	5.54	10	5	0.92	30	0.92	390	0	0.04	25	850	12	2	6	25	0.06	5	5	45	5	24	approx. 98+50E, 111+00N
388480R	7100	1.6	0.13	264	5	0.2	1	0.59	0.5	2	58	44	2.07	5	20	0.05	5	0.1	165	0	0	2	30	1	10000	0	59	0	5	5	0	5	36	109+80E, 93+97N; Qz-Mo(?) vn
388481R	30	0.1	0.13	328	5	0.2	1	0.01	0.2	3	163	19	0.68	5	5	0.07	5	0	25	0	0	3	70	12	392	0	8	0	5	5	0	5	8	110+52E, 94+05N; Frac cont P, As
388482R	30	1.8	0.17	328	10	0.2	8	0.02	0.2	0	186	30	1.83	5	20	0.1	5	0	35	0	0	4	140	56	40	0	18	0	5	5	1	5	12	110+51E, 94+01N; Frac cont P
388483R	30	0.1	0.3	62	30	0.2	1	0	0.2	0	66	4	0.38	5	80	0.11	10	0	5	0	0	4	100	42	306	0	6	0	5	5	1	5	2	Fine chdy vnlts, scor al fract
388484R	115	3.6	0.17	7950	30	0.2	1	0	0.2	0	60	51	1.02	5	30	0.14	5	0	10	0	0	1	350	1290	30	2	13	0	5	5	0	5	26	Frac cont + interstitial As, scor
388485R	1010	13	0.19	10000	40	0.2	2	0	1.5	0	75	122	4.42	5	70	0.15	5	0	15	0	0	0	310	8040	96	3	6	0	5	5	4	5	96	Mod perv. lgm, yellow stain
388486R	150	3.4	0.32	10000	50	0.2	1	0	1	0	61	28	1.82	5	20	0.19	10	0.01	10	0	0	0	190	1960	36	1	6	0	5	5	4	5	48	Includes brecc phyllite
388487R	45	21.6	0.3	4050	40	0.2	1	0	1.5	0	72	12	1.13	5	120	0.21	10	0.01	5	0	0	1	250	6780	30	0	9	0	5	5	3	5	40	Strong yellow powdery alt, loc. scor
388488R	780	1.8	0.25	10000	30	0.2	1	0	1	0	156	13	1.43	5	220	0.14	5	0	15	0	0	1	200	352	30	1	3	0	5	5	1	5	42	111+15E, 88+90N; Frac cont As
388489R	90	52	1.12	212	20	0.2	4	0.07	59	53	20	790	15	5	30	0.21	5	0.32	75	0	0.01	77	330	25500	34	0	8	0	5	5	10	20	5610	Shore, S> Sun Cr; frac cont sulp
389279R	15	1	0.23	376	20	0.2	1	0.46	7.5	4	91	15	0.96	5	10	0.12	30	0.02	2140	0	0	7	130	388	1	0	19	0	5	5	1	5	748	narrow frac zone
389280R	55	0.6	3.52	188	30	0.5	1	1.58	1.5	28	53	403	5.75	5	5	0.23	20	0.59	220	0	0.26	44	400	66	1	5	175	0.11	5	5	36	5	358	
389281R	10	0.2	1.38	112	50	0.2	1	0.01	0.2	9	37	31	2.72	5	5	0.25	20	0.44	140	0	0.01	19	110	70	1	1	7	0	5	5	11	5	108	gouge zone 1.5m wide
389282R	2	0.1	1.72	36	70	0.5	1	0.17	0.2	9	45	132	5.52	5	5	0.47	5	0.62	125	0	0.04	14	490	10	1	4	38	0.01	5	5	29	5	32	
389283R	145	4.2	0.36	48	10	0.2	518	0.01	0.2	4	114	26	2.63	5	5	0.08	10	0.01	215	0	0	8	110	58	1	1	1	0	5	5	8	5	38	minor p-ox-tr
389284R	10	0.1	1.74	10	50	0.5	1	0.43	0.2	9	32	43	3.78	5	5	0.33	20	0.29	335	0	0.09	24	370	14	1	3	36	0.01	5	5	21	5	50	
389285R	10	0.1	2.2	46	70	0.5	1	0.26	0.5	14	50	38	3.15	5	5	0.5	10	0.68	365	0	0.04	25	90	12	1	3	32	0.05	5	5	28	5	154	
389286R	10	0.6	0.9	46	80	0.5	2	0.01	0.2	5	16	48	7.8	5	5	0.35	10	0.14	115	2	0.01	9	110	80	1	0	4	0	5	5	7	5	62	
389287R	10	0.1	1.81	42	80	0.2	1	0.05	0.2	7	66	54	4.65	5	5	0.44	20	0.63	190	0	0.04	21	130	6	1	3	9	0.01	5	5	25	5	50	
389288R	2	0.1	0.57	8	5	0.5	1	0.06	0.2	2	62	23	0.4	5	10	0.15	10	0.02	55	0	0.06	4	100	12	1	1	7	0	5	5	1	5	12	intrusive dike (Kqm)
389289R	2	3.2	3.05	10	20	0.5	204	1.82	1.5	16	88	5550	5.58	10	10	0.18	20	0.36	145	1	0.2	17	700	12	1	3	135	0.09	5	5	22	5	104	near intrusive dike, poss. bornite-tr
389290R	5	0.1	4.68	6	30	0.5	1	2.65	0.2	10	64	101	2.87	10	5	0.26	10	0.39	235	0	0.24	18	180	8	1	3	352	0.11	5	5	25	5	36	
389291R	5	0.1	4.91	30	30	0.5	1	2.88	0.5	11	67	46	1.69	10	5	0.19	10	0.22	80	0	0.54	33	340	44	2	3	380	0.13	5	5	23	5	46	abun. microfrac.
389292R	10	0.1	0.3	132	30	0.2	1	0.96	0.5	2	91	7	1.04	5	5	0.18	10	0.01	605	0	0	5	100	28	1	0	39	0	5	5	1	5	190	
389293R	75	0.1	6.68	246	40	1.5	1	3.57	0.5	15	82	37	3.19	10	5	0.34	10	0.74	200	0	0.68	34	440	14	1	4	429	0.14	5	5	43	5	42	
389294R	30	0.2	4.19	162	50	1	1	1.59	0.2	11	63	31	3.24	10	5	0.23	10	0.62	170	0	0.27	27	540	18	1	4	179	0.09	5	5	32	5	50	gouge zone/microfract
389295R	5	0.1	0.45	14	30	0.2	1	0.08	0.2	4	143	24	1.67	5	5	0.13	10	0.06	245	0	0.04	14	120	6	1	1	8	0	5	5	6	5	28	near qm dike
389296R	2	0.1	1.26	10	50	0.2	1	0.25	0.2	4	55	8	2.38	5	5	0.21	20	0.43	185	0	0.05	3	460	22	1	4	15	0.03	5	5	18	5	158	
389297R	10	17.6	0.68	34	10	0.2	8	0.06	2	3	99	53	4.26	5	30	0.12	5	0.12	175	0	0.03	17	90	3030	8	1	7	0	5	5	8	5	890	fract w qtz. vns, p-2%
389298R	5	0.2	1.27	1	70	0.2	1	0.35	1.5	7	36	8	2.41	5	5	0.19	10	0.51	300	0	0.05	12	480	28	1	3	17	0.04	5	5	24	5	180	minor boxwork
389299R	2	0.1	4.34	8	60	0.5	1	1.84	0.2	15	60	33	3.51	10	5	0.54	5	0.89	180	0	0.28	36	210	14	1	5	208	0.12	5	5	40	5	54	alt. near qm dike
389300R	10	0.2	3.59	42	50	0.5	1	1.23	0.2	11	49	31	3.28	5	5	0.44	20	0.7	200	0	0.24	24	240	28	1	4	147	0.07	5	5	30	5	52	stratabound alt

Appendix 5
Justin Claim Area Soil Data

Soil Sample Description Sheet

Sample	X_Coord	Y_Coord	Zone	Horizon	Depth_cm	Slope_Ang	Colour	Permafrost	Cse_Frags	Vegetation	Surf_Geol	Frag_Lith	Organics	Date	Name
50E/ 11600N			9	B	30	sl	gbm			scf	ls	SLT		31/8/97	DV
00E/ 11600N			9	B	30	fl	bm			td	ls	SLT	15	31/8/97	DV
50E/ 11600N			9	B	20	sl	org			scf	ls	Phy		31/8/97	DV
00E/ 11600N			9	B	30	sl	bm			td	ls	QPC	10	31/8/97	DV
50E/ 11600N			9	B	20	sl	bm			scf	ls	QPC/PHY	5	31/8/97	DV
00E/ 11600N			9	B	20	sl	bm		10	scf	ls	Phy		31/8/97	DV
50E/ 11600N			9	B	35	sl	bm		5	scf	ls	QPC	5	31/8/97	DV
00E/ 11600N			9	NS	NS	NS	bm		NS	nv	tf	SLT	NS	31/8/97	DV
50E/ 11600N			9	B	5	sl	bm		5	nv	tf	SLT		31/8/97	DV
00E/ 11600N			9	B	10	sl	bm		5	nv	tf	SLT		31/8/97	DV
50E/ 11600N			9	C	35	mod	bm		40	nv	tf	Phy		31/8/97	DV
00E/ 11600N			9	B	15	mod	bm		5	td	tf	Phy		31/8/97	DV
00E/ 11400N			9	ab	20	mod	bl		5	td	coll	sh	30	31/8/97	MR
50E/ 11400N			9	b	10	mod	E		70	td	tl	slt	10	31/8/97	MR
00E/ 11400N			9	b	10	mod	bm		70	td	tl	slt	10	31/8/97	MR
50E/ 11400N			9	bc	0	st	bm		70	td	tl	slt	20	31/8/97	MR
00E/ 11400N			9	bc	0	st	bm		75	td	tl	slt		31/8/97	MR
50E/ 11400N			9	bc	10	mod	E		80	td	tl		40	31/8/97	MR
00E/ 11400N			9	b	15	mod	bm		30	td	coll		40	31/8/97	MR
50E/ 11400N			9			st				td	tl			31/8/97	MR
00E/ 11400N			9	bc	0	st	bm		80		tl	aqm		31/8/97	MR
50E/ 11400N			9	b	0	st	bm		70	td	tl	slt	5	31/8/97	MR
00E/ 11400N			9	bc	0	st	E		80	td	tl	slt	10	31/8/97	MR
50E/ 11400N			9	b	0	st	bm		60	td	tl	slt	40	31/8/97	MR
00E/ 11550N			9	NS	NS	st	dbm		45	td	tf	Phy	NS	31/8/97	DV
00E/ 11500N			9	C	30	st	dbm		40	td	tf	Phy	5	31/8/97	DV
00E/ 11450N			9	C	20	mod	dbm		30	td	tf	Phy	10	31/8/97	DV
00E/ 11200N			9	B	10	st	bm		5	nv	tf	Phy		09-01-97	DV
50E/ 11200N			9	C	10	st	bm		20	nv	tf	Phy		09-01-97	DV
00E/ 11200N			9	B	5	mod	bm		5	nv	tf	Phy		09-01-97	DV
50E/ 11200N			9	C	10	mod	bm		65	nv	tf	SLT		09-01-97	DV
00E/ 11200N			9	B	10	mod	bm		5	nv	tf	SLT		09-01-97	DV
50E/ 11200N			9	C	5	mod	bm		25	nv	tf	Phy		09-01-97	DV
00E/ 11200N			9	B	25	mod	bm			td	tf	SLT		09-01-97	DV
50E/ 11200N			9	B	15	st	bm		5	td	tf	SLT		09-01-97	DV
0000E/ 11200N			9	B	20	st	bm		5	td	ls	Phy		09-01-97	DV
0050E/ 11200N			9	B	25	st	bm		5	td	ls	Phy	5	09-01-97	DV
0100E/ 11200N			9	B	5	mod	bm		5	nv	tf	Phy	5	09-01-97	DV
0150E/ 11200N			9	NS	NS	mod	NS			nv	NS	NS		09-01-97	DV
0200E/ 11200N			9	B	10	sl	bm		5	nv	tf	SLT		09-01-97	DV
0250E/ 11200N			9	C	5	sl	bm		70	nv	tf	SLT		09-01-97	DV
0300E/ 11200N			9	NS	NS	mod	NS			nv	NS	NS		09-01-97	DV
0350E/ 11200N			9	B	5	st	dgy		5	nv	tf	SLT		09-01-97	DV
0400E/ 11200N			9	B	10	st	dgy		10	nv	tf	SH		09-01-97	DV
0450E/ 11200N			9	B	5	mod	bl		5	nv	tf	Phy		09-01-97	DV
700E/ 11150N			9	B	10	st	bm		5	nv	tf	Phy		09-01-97	DV
700E/ 11100N			9	B	5	st	bm		10	nv	tf	Phy		09-01-97	DV
700E/ 11050N			9	B	10	st	bm		10	nv	tf	LSS		09-01-97	DV
700E/ 11000N			9	B	5	st	bm		5	nv	tf	SLT		09-01-97	DV
700E/ 10950N			9	B	5	st	bm		10	nv	tf	SLT		09-01-97	DV
700E/ 10900N			9	B	5	st	bm		10	nv	tf	SLT		09-01-97	DV
700E/ 10850N			9	B	5	st	bm		5	nv	tf	SLT		09-01-97	DV
700E/ 10800N			9	B	10	st	bm		5	nv	tf	SLT		09-01-97	DV
100 A (west)			9	B	5	rt	bm		5	nv	tf	SLT		09-02-97	DV
125 A (west)			9	B	5	rt	bm		5	nv	tf	SLT		09-02-97	DV
150 A (west)			9	B	5	rt	bm		5	nv	tf	SLT		09-02-97	DV
175 A (west)			9	B	10	rt	bm			td	tf	Phy	5	09-02-97	DV
200 A (west)			9	A	5	rt	bm			td	tf	Phy	10	09-02-97	DV

Soil Sample Description Sheet

Sample	X_Coord	Y_Coord	Zone	Horizon	Depth_cm	Slope_Ang	Colour	Permafrost	Cse_Frags	Vegetation	Surf_Geol	Frag_Lith	Organics	Date	Name
225 A (west)			9	B	5	rt	bm			mv	tf	GY		09-02-97	DV
250 A (west)			9	B	5	rt	bm		5	mv	tf	Phy		09-02-97	DV
275 A (west)			9	B	10	rt	bm		5	mv	tf	SS		09-02-97	DV
300 A (west)			9	B	5	rt	dbm		5	td	tf	Phy	5	09-02-97	DV
325 A (west)			9	C	5	rt	gbm		15	mv	tf	Phy		09-02-97	DV
350 A (west)			9	B	10	rt	dbm		5	mv	tf	SLT	5	09-02-97	DV
375 A (west)			9	B	10	rt	bm		5	mv	tf	SLT		09-02-97	DV
400 A (west)			9	C	10	rt	bm		15	mv	tf	Phy		09-02-97	DV
425 A (west)			9	B	15	rt	bm		5	mv	tf	SS		09-02-97	DV
450 A (west)			9	B	5	rt	bm		5	mv	tf	AQM		09-02-97	DV
475 A (west)			9	C	5	rt	bm		15	mv	tf	Phy		09-02-97	DV
500 A (west)			9	C	5	rt	bm		15	mv	tf	AQM		09-02-97	DV
525 A (west)			9	C	20	rt	bm		20	mv	tf	GY	5	09-02-97	DV
550 A (west)			9	B	15	rt	bm		5	mv	tf	GY	5	09-02-97	DV
575 A (west)			9	A	10	rt	bm			mv	tf	SS	15	09-02-97	DV
600 A (west)			9	A	5	rt	bm			mv	tf	GY	10	09-02-97	DV
625 A (west)			9	B	10	rt	bm		5	mv	tf	GY	5	09-02-97	DV
650 A (west)			9	C	10	rt	bm		15	mv	tf	QPC		09-02-97	DV
675 A (west)			9	B	10	rt	bm			mv	tf	GY	5	09-02-97	DV
700 A (west)			9	C	5	rt	bm		25	mv	tf	Phy		09-02-97	DV
725 B (east)			9	C	10	rt	bm		25	mv	tf	SLT		09-02-97	DV
750 B (east)			9	C	5	rt	bm		30	mv	tf	SLT		09-02-97	DV
775 B (east)			9	B	10	rt	bm		5	mv	tf	SLT		09-02-97	DV
800 B (east)			9	C	10	rt	bm		25	mv	tf	SLT		09-02-97	DV
825 B (east)			9	C	5	rt	bm		25	mv	tf	SLT	5	09-02-97	DV
850 B (east)			9	B	5	rt	dbm		5	mv	tf	QTZ	10	09-02-97	DV
875 B (east)			9	B	5	rt	bm		5	mv	tf	SLT		09-02-97	DV
900 B (east)			9	C	5	rt	bm		30	mv	tf	Phy		09-02-97	DV
925 B (east)			9	B	5	rt	bm		10	mv	tf	Phy		09-02-97	DV
950 B (east)			9	B	5	rt	bm		5	mv	tf	Phy		09-02-97	DV
975 B (east)			9	C	5	rt	bm		25	mv	tf	AQM		09-02-97	DV
0000 B (east)			9	C	10	rt	bm		40	mv	tf	Phy	5	09-02-97	DV
0025 B (east)			9	B	5	rt	bm			mv	tf	Phy		09-02-97	DV
0050 B (east)			9	C	5	rt	gbm		65	mv	tf	Phy		09-02-97	DV
0075 B (east)			9	C	5	rt	bm		15	mv	tf	Phy		09-02-97	DV
0100 B (east)			9	C	5	rt	bm		25	mv	tf	Phy		09-02-97	DV
0125 B (east)			9	C	5	rt	bm		30	mv	tf	Phy		09-02-97	DV
0150 B (east)			9	C	5	rt	bm		25	mv	tf	Phy		09-02-97	DV
0175 B (east)			9	B	5	rt	bm		10	mv	tf	Phy		09-02-97	DV
0200 B (east)			9	C	10	rt	bm		25	mv	tf	Phy		09-02-97	DV
0225 B (east)			9	B	5	rt	bm		5	mv	tf	Phy		09-02-97	DV
0250 B (east)			9	B	10	rt	bm		5	mv	tf	SLT		09-02-97	DV
0275 B (east)			9	B	10	rt	bm		5	mv	tf	SLT		09-02-97	DV
0300 B (east)			9	C	5	rt	bm		25	mv	tf	SLT		09-02-97	DV
750E/ 11400N			9	bc	0	st	bm		60	td	tl	slt	10		
800E/ 11400N			9			st				td	tl		NS		
850E/ 11400N			9	bc	0	st	bm		50	td		slt	30		
900E/ 11400N			9	b	0	st	bm		30	td		ss	30		
950E/ 11400N			9	NS	NS	st	NS		NS	td		NS	NS		
0000E/ 11400N			9	NS	NS	mod	NS		NS	td	tl	NS	NS		
0050E/ 11400N			9	bc	30	st	bm		70	td	tl	slt	50		
0100E/ 11400N			9	b	30	mod	bm		5	td	tl	ss	30		
0150E/ 11400N			9	bc	0	mod	bm		90	td	tl	slt			
0200E/ 11400N			9	b	0	mod	bm		90	td	tl	qpc	20		
0250E/ 11400N			9	bc	0	mod	mgy		70	td	tl	slt	30		
0300E/ 11400N			9	b	0	st	mgy		50	td	tl	slt	30		
0350E/ 11400N			9	ab	30	st	bl		0	td	coll	sh	70		
0400E/ 11400N			9	bc	0	st	mgy		80	td	tl	slt	30		

Soil Sample Description Sheet

Sample	X_Coord	Y_Coord	Zone	Horizon	Depth_cm	Slope_Ang	Colour	Permafrost	Cse_Frags	Vegetation	Surf_Geol	Frag_Lith	Organics	Date	Name
4850E/11400N			9	b	20	mod	brn		60	td	coll	slt	50		
5000E/11400N			9	bc	0	st	brn		80	td	tl	slt	20		
500E/11000N			9	bc	0	st	brn		80		tl	slt			
800E/11000N			9	bc	0	fl	brn		40	td	tl	slt	10		
500E/11000N			9	bc	0	st	brn		80	td	tl	slt			
600E/11000N			9	bc	0	st	brn		90	td	tl	slt			
500E/11000N			9	bc	0	st	brn		80		tl	slt			
600E/11000N			9	b	5	st	brn		50	td	tl	slt	20		
500E/11000N			9	bc	10	st	brn		70		tl	slt			
600E/11000N			9	bc	0	st	brn		80		tl	slt	20		
500E/11000N			9	b	0	st	brn		80	td	tl	slt	30		
225E/10200N			9	ab	10	mod	brn			td	tl	SLT	50		
375E/10200N			9	ab	10	mod	brn		10	td	coll	SLT	50		
425E/10200N			9	ab	15	mod	brn		20	td	coll	SLT	60		
775E/10200N			9	b	20	mod	brn		10	td	coll	SLT	40		
025E/10200N			9	b	0	st	tan		30	td	tl	SLT	10		
075E/10200N			9	ab	15	st	brn		20	td	coll	SLT	60		
125E/10200N			9	NS	NS	st				td	tl		NS		
475E/10200N			9	b	20	st	brn		30	td	coll	SLT	40		
9825E/10200N			9	ab	10	st	brn		40	td	coll	slt	20		
9975E/10200N			9	b	0	st	brn		60	td	tl	SLT	10		
0125E/10200N			9	b	20	st	brn		40	td	coll	qpc	10		
0175E/10200N			9	b	0	st	brn		50	td	tl	slt	10		
0225E/10200N			9	b	10	st	tan		50	td	tl	slt	10		
350E/10100N			9	ab	30	gen	brn		30	td	coll	slt	40		
475E/10100N			9	b	30	gen	brn		30	td	coll	slt	30		
600E/10100N			9	ab	35	mod	brn		40	td	coll	slt	30		
725E/10100N			9	b	0	mod	brn		20	td	coll	slt	40		
750E/10100N			9	b	30	mod	brn		10	td	coll	slt	40		
775E/10100N			9	b	0	mod	tan		5	td	tl	slt			
800E/10100N			9	b	45	mod	brn			td	coll	slt	10		
9825E/10100N			9	b	35	gen	brn		5	td	coll	slt	20		
9850E/10100N			9	b	35	gen	tan			td	coll	slt	20		
9875E/10100N			9	b	40	gen	tan			td	coll	slt	10		
9900E/10100N			9	b	30	gen	brn		20	td	coll	slt	30		
9925E/10100N			9	bc	20	mod	brn		30	td	coll	slt	40		
9950E/10100N			9	bc	0	mod	brn		40	td	tl	slt			
9975E/10100N			9	b	30	mod	brn		20	td	coll	slt	10		
10025E/10100N			9	bc	20	mod	brn		60	td	coll	slt	50		
10050E/10100N			9	b	15	mod	brn		30	td	coll	slt	10		
10075E/10100N			9	bc	0	mod	brn		40	td	coll	slt	10		
10100E/10100N			9	b	30	mod	brn		30	td	coll	slt	40		
10125E/10100N			9	bc	35	mod	brn		60	td	coll	slt	30		
10150E/10100N			9	ab	30	mod	brn		50	td	coll	slt	20		
10175E/10100N			9	NS	NS	mod				td	coll		NS		
10200E/10100N			9	b	30	mod	brn		20	td	coll	slt	20		
10225E/10100N			9	ab	10	mod	brn		60	td	coll	slt	40		
10250E/10100N			9	b	20	mod	brn			td	coll	slt	30		
7000E/9900N			9	B	5	mod	gbrn		10	nv	tf	Phy	5	09-03-97	DV
7725E/9900N			9	B	5	sl	brn		5	nv	tf	Phy		09-03-97	DV
7750E/9900N			9	C	10	sl	gbrn		25	nv	tf	Phy		09-03-97	DV
7775E/9900N			9	C	5	sl	brn		20	nv	tf	Phy		09-03-97	DV
8000E/9900N			9	A	10	sl	brn			nv	tf	Phy	20	09-03-97	DV
8025E/9900N			9	C	10	mod	brn		20	nv	tf	Phy	10	09-03-97	DV
8050E/9900N			9	C	10	mod	brn		20	nv	tf	Phy	10	09-03-97	DV
8075E/9900N			9	B	5	mod	brn		5	nv	tf	Phy	5	09-03-97	DV
8100E/9900N			9	C	10	mod	brn		20	nv	tf	Phy	5	09-03-97	DV
8125E/9900N			9	C	25	mod	brn		30	nv	tf	SLT	5	09-03-97	DV

Soil Sample Description Sheet

Sample	X_Coord	Y_Coord	Zone	Horizon	Depth_cm	Slope_Ang	Colour	Permafrost	Cse_Frags	Vegetation	Surf_Geol	Frag_Lith	Organics	Date	Name
50E/ 9900N			9	B	25	mod	brn		5	nv	tf	QPC	10	09-03-97	DV
75E/ 9900N			9	C	5	sl	brn		15	nv	tf	GY	5	09-03-97	DV
000E/ 9900N			9	B	10	sl	brn		5	scf	ls	Phy	5	09-03-97	DV
027E/ 9900N			9	B	10	sl	brn		10	td		SLT	5	09-03-97	DV
052E/ 9900N			9	B	10	sl	brn		10	td		Phy	5	09-03-97	DV
077E/ 9900N			9	B	10	sl	brn		5	td	ls	SLT		09-03-97	DV
100E/ 9900N			9	B	10	sl	brn		5	td		Phy	5	09-03-97	DV
125E/ 9900N			9	B	10	sl	brn			scf	ls	Phy	5	09-03-97	DV
150E/ 9900N			9	B	10	sl	brn		5	td		Phy	5	09-03-97	DV
175E/ 9900N			9	B	10	mod	brn		5	td		GY	5	09-03-97	DV
200E/ 9900N			9	B	25	sl	brn		5	td	ls	SLT	10	09-03-97	DV
25E/ 10000N			9	B	30	sl	tan		10	td	ls	Phy	10	09-03-97	DV
75E/ 10000N			9	B	10	sl	brn		5	td		SLT	5	09-03-97	DV
25E/ 10000N			9	B	10	sl	gy			td	ls	Phy	5	09-03-97	DV
75E/ 10000N			9	C	10	sl	brn		20	td		SLT	5	09-03-97	DV
325E/ 10000N			9	C	10	vb	brn		25	bb		Phy		09-03-97	DV
375E/ 10000N			9	B	30	sl	brn		5	td	ls	Phy	10	09-03-97	DV
925E/ 10000N			9	B	30	sl	brn		5	td	ls	SS	5	09-03-97	DV
975E/ 10000N			9	B	30	fl	brn			td	ls	SLT	5	09-03-97	DV
0025E/ 10000N			9	B	25	fl	brn			td	ls	QM	10	09-03-97	DV
0075E/ 10000N			9	C	20	mod	brn		25	scf		Phy	5	09-03-97	DV
0125E/ 10000N			9	B	30	mod	brn			bb	ls	SLT	10	09-03-97	DV
0175E/ 10000N			9	B	15	sl	brn		5	scf	ls	Phy	10	09-03-97	DV
0225E/ 10000N			9	B	30	sl	brn			td	ls	Phy	10	09-03-97	DV
0650E/ 9500N			9	B	20	sl	brn		5	scf	ls	QPC	5	09-04-97	DV
0700E/ 9500N			9	B	20	sl	brn		5	scf	ls	Phy	5	09-04-97	DV
0750E/ 9500N			9	B	20	sl	brn		10	scf		Phy	5	09-04-97	DV
0800E/ 9500N			9	B	25	sl	brn		10	scf	ls	Phy	5	09-04-97	DV
0825E/ 9500N			9	B	20	sl	brn		10	scf	ls	Phy	5	09-04-97	DV
0850E/ 9500N			9	B	25	sl	brn		5	scf	ls	Phy	5	09-04-97	DV
0875E/ 9500N			9	B	30	sl	brn			scf	ls	Phy	5	09-04-97	DV
0900E/ 9500N			9	B	25	sl	brn		5	scf	ls	Phy	5	09-04-97	DV
0925E/ 9500N			9	B	35	sl	brn			scf	ls	QTZ		09-04-97	DV
0950E/ 9500N			9	B	20	sl	brn		5	scf	ls	SLT		09-04-97	DV
0975E/ 9500N			9	A	25	sl	gy		5	scf	ls	QPC	25	09-04-97	DV
1000E/ 9500N			9	B	20	sl	brn		5	scf	ls	SLT	5	09-04-97	DV
1025E/ 9500N			9	B	20	sl	gy		5	scf	ls	Phy	10	09-04-97	DV
1050E/ 9500N			9	B	25	mod	brn		5	scf	ls	Phy	10	09-04-97	DV
1075E/ 9500N			9	B	25	sl	brn		5	scf	ls	SS	10	09-04-97	DV
1100E/ 9500N			9	A	35	sl	brn		5	scf	ls	Phy	25	09-04-97	DV
1125E/ 9500N			9	A	30	fl	brn			bb	ls	SLT	20	09-04-97	DV
1150E/ 9500N			9	B	30	mod	rbrn			scf	ls	SLT	10	09-04-97	DV
1175E/ 9500N			9	A	30	mod	brn		5	scf	ls	QPC	20	09-04-97	DV
1200E/ 9500N			9	B	25	mod	brn		5	scf	ls	SLT	5	09-04-97	DV
1225E/ 9500N			9	B	20	sl	brn		5	scf	ls	SLT	5	09-04-97	DV
1250E/ 9500N			9	B	25	sl	brn		5	scf	ls	Phy	5	09-04-97	DV
1275E/ 9500N			9	B	20	sl	brn		5	scf	ls	Phy		09-04-97	DV
1300E/ 9500N			9	B	25	sl	brn			scf	ls	SLT	5	09-04-97	DV
0300E/ 9400N			9	B	15	mod	brn			scf	ls	Phy	5	09-04-97	DV
0350E/ 9400N			9	B	20	mod	brn		5	scf	ls	SLT	5	09-04-97	DV
0400E/ 9400N			9	B	15	sl	brn		5	scf	ls	QM	5	09-04-97	DV
0450E/ 9400N			9	B	15	sl	brn		5	scf	ls	SLT	5	09-04-97	DV
0500E/ 9400N			9	B	20	sl	brn			scf	ls	SLT	5	09-04-97	DV
0550E/ 9400N			9	B	35	sl	brn		5	scf	ls	Phy	5	09-04-97	DV
600E/ 9600N			9	C	5	st	gbrn		25	nv	tf	Phy		09-04-97	DV
650E/ 9600N			9	B	10	st	brn		10	nv	tf	Phy		09-04-97	DV
700E/ 9600N			9	C	5	mod	brn		25	nv	tf	Phy		09-04-97	DV
750E/ 9600N			9	C	5	st	brn		70	nv	tf	Phy		09-04-97	DV

Soil Sample Description Sheet

Sample	X_Coord	Y_Coord	Zone	Horizon	Depth_cm	Slope_Ang	Colour	Permafrost	Cse_Frags	Vegetation	Surf_Geol	Frag_Lith	Organics	Date	Name
50E/11000N			9	BC	0	ST	bm		80	TD	TL	SLT			
00E/11000N			9	BC	0	ST	bm		80	td	TL	SLT			
50E/11000N			9	NS		ST	NS		NS		TL				
00E/11000N			9	NS		ST	NS		NS		TL				
50E/11000N			9	BC	0	ST	bm		80		TL	slt			
75E/11000N			9	BC	0	ST	bm		80		TL	slt			
000E/11000N			9	BC	15	ST	bm		90		TL	slt			
100E/11000N			9	BC	0	ST	bm		80		TL	SLT			
150E/11000N			9	B	0	ST	bm		80		TL	SLT			
200E/11000N			9	BC	0	ST	bm		80		TL	SLT			
450 bl9706			9	b	0	ST	bm		20	td	tl	ss			
500 bl9705			9	b	0	ST	bm		20	td	tl	ss			
550 bl9704			9	ab	15	ST	bm		20	td	coll	ss			
600 bl9703			9	ab	15	ST	bm		1	td	coll	slt			
650 bl9702			9	ab	10	ST	bm		30	td	coll	qtz			
700 bl9701			9	bc	0	ST	bm		90	td	TL	slt			
750 bl9700			9	bc	0	ST	bm		80	td	TL	aqm			
1250 bl9707			9	bc		ST	bm		85		tl	slt			
1300 bl9708			9	bc		ST	bm		85		tl	slt			
1350 bl9709			9	bc		ST	bm		85	td	tl	ss			
1400 bl9710			9	b		ST	bm		80	td	tl	ss			
1100E/8900N			9	B	10	mod	tan		35	td	Ta	Phy	<5		
1100E/8950N			9	B	15	mod	buff		25	td	Ta	SS	15		
1100E/9000N			9	B	5	mod	buff		65	nv	Ta	Phy	<5		
1100E/9050N			9	B	10	Gen	tan		70	nv	Ta	SS	5		
1100E/9100N			9	B	20	Sl	lbm		15	scf	ti	Phy	15		
1100E/9150N			9	B	15	mod	lbm		<5	scf	ti	Phy	15		
1100E/9200N			9	B	25	Gen	bm		5	scf	ti	Phy	10		
1100E/9250N			9	B	20	Gen	lbm		25	scf	ti	Phy	15		
1100E/9300N			9	B	15	Sl	bm		30	scf	ti	Phy	20		
1100E/9350N			9	B	20	Gen	bm		35	scf	ti	Phy	<5		
0050			9	B	10	mod	buff		30	td	Ta	SS	10		
0100			9	B	15	mod	tan		40	td	Ta	SS	5		
0150			9	B	15	Gen	buff		35	td	Ta	SS	5		
0200			9	B	15	Gen	buff		50	nv	Ta	QPC	<5		
0250			9	B	15	Gen	buff		25	td	Ta	QPC	<5		
0300			9	A/B	15	st	buff		60	td	Ta	QPC	15		
0350			9	B	15	mod	buff		30	td	Ta	QPC	10		
0400			9	B	10	mod	buff		40	nv	Ta	QPC	<5		
0450			9	B	10	mod	buff		10	td	Ta	QPC	15		
0500			9	B	15	Gen	buff		50	nv	Ta	SS	<5		
0557			9	B	15	st	buff		30	nv	Ta	QPC	<5		
0622			9	B	15	mod	buff		25	nv	Ta	SS	<5		
0650			9	B	20	mod	buff		35	nv	Ta	SS	<5		
0708			9	B	15	st	buff		50	nv	Ta	SLT	<5		
0750			9	B	15	st	buff		40	nv	Ta	SLT	10		
0800			9	B	10	st	buff		35	nv	Ta	SS	<5		
0850			9	B	10	st	buff		50	nv	Ta	SLT	<5		

Soil Sample Description Sheet

samp	Au_ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn	Comments
1600N 9150E	10	0.1	0.77	10	30	0.2	1	0.02	0.2	4	11	12	2.35	5	5	0.04	10	0.08	215	1	0.01	8	470	12	1	0	5	0	5	5	27	5	32	
1600N 9200E	10	0.2	2.5	84	80	1	1	0.63	0.2	19	29	37	4.29	5	10	0.12	20	0.6	860	1	0.03	36	880	56	1	4	67	0.03	5	5	29	5	150	
1600N 9250E	5	0.1	0.93	28	30	0.2	1	0.16	0.2	5	14	20	3.81	5	5	0.05	10	0.11	160	1	0	15	480	16	1	1	11	0	5	5	24	5	50	PS
1600N 9300E	5	0.1	1.98	352	80	1.5	1	0.3	0.5	16	20	67	4.73	5	10	0.08	20	0.4	925	2	0	29	950	156	2	3	40	0	5	5	22	5	304	
1600N 9350E	2	0.2	1.31	34	40	0.2	1	0.03	0.2	4	11	20	2.62	5	20	0.04	10	0.14	125	3	0	11	650	32	1	0	8	0	5	5	26	5	52	
1600N 9400E	2	0.1	0.82	88	40	0.2	1	0.03	0.2	9	15	32	3.53	5	5	0.07	10	0.12	275	30	0	21	530	24	1	1	9	0	5	5	28	5	80	
1600N 9450E	2	0.1	1.27	58	50	0.5	4	0.06	0.2	6	16	25	3.03	5	5	0.07	10	0.18	250	15	0.01	16	590	24	1	1	11	0	5	5	28	10	68	
S																																		
1600N 9550E	2	0.1	2.14	72	80	1	4	0.08	0.2	14	26	44	4.17	5	10	0.14	30	0.35	750	46	0.01	28	960	34	1	2	12	0.01	5	5	34	5	112	TALUS/NS
1600N 9600E	2	0.2	1.37	110	50	1	4	0.17	0.2	26	20	71	4.68	5	30	0.14	40	0.37	1380	8	0	42	580	38	2	4	19	0.02	5	5	24	20	98	TF
1600N 9650E	2	0.1	2.06	48	50	1.5	2	0.32	0.2	19	20	75	3.38	5	50	0.11	10	0.32	915	4	0.03	27	1020	18	1	3	38	0.02	5	5	24	5	68	TF/PS
1600N 9700E	30	0.6	2.61	1510	60	2	8	0.32	0.2	30	31	271	6.57	5	20	0.17	30	0.56	1095	2	0	57	640	190	6	6	50	0.01	5	5	34	5	330	TF/PS
1400N 9100E	2	0.1	5.48	10	40	2	1	2.7	0.2	17	45	28	4.78	10	30	0.25	5	0.71	465	1	0.39	31	670	26	1	7	427	0.12	5	5	47	5	144	
1400N 9150E	15	0.2	2.69	86	50	1	1	0.79	0.5	23	29	50	5.09	5	10	0.2	30	0.71	665	0	0.09	44	640	120	1	5	160	0.05	5	5	26	5	252	
1400N 9200E	60	0.1	1.72	76	50	2	2	0.19	0.2	30	18	97	6.14	5	10	0.13	50	0.26	2270	0	0	47	440	70	1	5	44	0	5	5	22	5	180	
1400N 9250E	60	0.1	1.56	74	50	2	4	0.19	0.2	28	16	91	5.87	5	5	0.12	50	0.23	2210	1	0	43	490	66	1	5	43	0	5	5	21	5	168	
1400N 9300E	2	0.1	0.78	60	50	1	1	0.4	0.2	19	20	135	9.26	5	5	0.16	30	0.14	425	1	0	41	2360	14	1	3	44	0	5	5	24	5	106	
1400N 9350E	15	0.2	1.96	350	50	1	2	0.1	0.2	8	23	68	5.15	5	40	0.14	10	0.48	340	3	0.01	20	1240	180	1	2	20	0.01	5	5	28	5	134	sample 20m to the East
1400N 9400E	10	0.1	2.05	136	60	2	1	0.28	0.2	18	24	75	5.01	5	30	0.12	50	0.39	790	7	0	32	780	54	1	5	19	0.01	5	10	30	5	98	
1400N 9450E	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	no sample
1400N 9500E	10	0.1	2.44	284	50	2.5	2	0.23	0.2	62	22	164	6.12	5	10	0.14	30	0.54	1970	3	0.01	66	890	24	1	4	70	0.02	5	5	29	5	112	
1400N 9550E	15	0.1	2.07	132	50	2.5	1	0.33	0.2	48	27	120	6.6	5	20	0.15	50	0.57	1910	6	0	71	560	30	1	7	43	0.01	5	5	34	5	118	
1400N 9600E	20	0.1	1.7	56	60	1.5	2	0.36	0.2	27	17	101	5.16	5	5	0.11	40	0.25	1880	6	0.01	43	700	20	1	4	44	0.01	5	5	24	5	92	
1400N 9650E	45	0.6	2.57	1810	60	2	8	0.39	0.2	37	31	335	7.15	5	5	0.21	50	0.66	1175	2	0	62	580	214	8	7	59	0.01	5	5	35	5	390	
S																																		TF/PS
S																																		TF/PS
S																																		TF/PS
1200N 9600E	145	11.8	2.99	522	40	2	6	0.26	3.5	59	22	491	11.8	5	20	0.18	30	0.49	1590	1	0.03	68	760	3360	12	7	111	0.01	5	10	28	5	1385	TF
1200N 9650E	25	2.2	2.33	1190	60	1.5	1	0.76	7	33	27	154	6.6	5	10	0.17	50	0.58	1935	0	0.04	54	590	516	6	7	122	0.02	5	5	32	5	960	TF
1200N 9700E	30	2.6	2.5	872	50	1.5	4	0.79	6.5	42	26	193	7.34	5	10	0.18	50	0.67	2050	0	0.06	70	580	760	2	6	161	0.03	5	5	29	5	978	TF
1200N 9750E	25	1	1.91	778	40	1	2	0.53	2	23	26	123	5.2	5	30	0.18	30	0.64	960	0	0.03	46	550	222	1	4	104	0.03	5	5	24	5	338	TF
1200N 9800E	15	0.2	1.66	256	70	1.5	6	0.28	0.2	27	23	116	5.51	5	5	0.16	40	0.46	1380	1	0.01	55	500	60	1	5	45	0.01	5	5	24	5	142	TF
1200N 9850E	20	0.6	2.75	1480	20	1.5	30	0.14	0.2	59	20	1215	14.1	10	10	0.1	20	0.26	2760	0	0.01	42	710	30	1	4	25	0.05	5	5	27	5	96	TF/PS
1200N 9900E	130	9.6	0.92	4630	70	1.5	188	0.09	2	59	7	265	6.01	5	90	0.1	70	0.12	8180	2	0.01	57	310	1700	14	3	44	0	5	5	12	5	862	TF
1200N 9950E	30	0.6	3.09	588	60	1.5	16	0.27	0.2	30	29	349	5.9	5	10	0.13	30	0.51	1155	1	0.01	49	790	80	1	5	42	0.03	5	5	30	5	166	TF
1200N10000E	5	0.1	1.78	874	50	1.5	4	0.07	0.2	111	17	217	5.11	5	10	0.08	40	0.25	880	2	0	68	590	30	20	5	16	0	5	5	22	5	88	
1200N10050E	2	0.1	1.33	142	40	0.5	2	0.06	0.2	10	9	31	2.07	5	5	0.06	10	0.18	595	0	0.03	13	620	14	1	0	10	0.01	5	5	16	5	40	
1200N10100E	20	0.1	2.6	734	50	1.5	16	0.16	0.2	28	28	202	5.17	5	20	0.16	40	0.54	995	1	0.01	42	770	34	1	4	23	0.03	5	5	32	5	104	TF
1200N10200E	25	0.1	3.52	194	40	1.5	2	1.56	0.2	30	30	109	6.06	10	5	0.17	40	0.56	700	1	0.16	61	650	24	1	7	234	0.07	5	5	32	5	84	TALUS/NO SOIL
1200N10250E	20	0.1	2.69	68	30	1.5	1	1.13	0.2	33	26	115	6.96	5	5	0.2	40	0.78	510	1	0.06	68	660	16	1	6	147	0.04	5	5	28	5	80	TF
S																																		TF/PS
S																																		TALUS/NO SOIL
1200N10350E	2	0.8	1.92	22	130	0.5	1	4.49	0.5	16	20	37	3.56	5	5	0.14	30	1.89	230	3	0	32	700	28	2	5	138	0	5	5	41	5	168	TF
1200N10400E	2	0.8	2.11	12	150	0.5	1	5	0.5	18	23	40	3.41	5	10	0.16	30	2.14	245	4	0	32	880	24	1	5	187	0	5	5	57	5	178	TF
1200N10450E	2	0.8	1.57	14	110	0.5	1	6.09	0.5	13	19	32	2.84	5	10	0.08	10	1.87	240	4	0	29	870	18	1	5	226	0	5	5	48	5	156	TF
L9700E 11150N	60	2	1.69	1980	40	1	10	0.47	2.5	35	20	203	6.28	5	10	0.14	30	0.54	1240	1	0.03	56	560	540	4	4	100	0.01	5	5	22	5	564	TF
L9700E 11100N	20	1	1.87	654	40	1	1	0.49	1	27	23	98	5.56	5	10	0.16	30	0.62	1060	0	0.03	52	590	236	1	4	114	0.01	5	5	23	5	332	TF
L9700E 11050N	45	0.4	1.2	196	50	2	12	0.57	1	22	13	134	5.66	5	50	0.13	50	0.19	2000	1	0.02	40	530	138	20	8	94	0	5	5	20	5	230	TF
L9700E 11000N	40	0.6	2.58	296	50	1.5	1	0.63	0.5	36	27	61	6.1	5	20	0.25	40	0.75	1090	1	0.04	61	690	160	2	5	143	0.04	5	5	27	5	282	TF
L9700E 10950N	20	0.1	3.27	154	50	1.5	1	1.05	0.2	46	32	73	6.5	10	20	0.25	30	0.76	1330	1	0.09	77	1060	48	2	6	303	0.05	5	5	30	5	154	TF
L9700E 10900N	15	0.6	2.45	98	60	1	1	0.39	0.2	35	27	56	5.07	5	10	0.27	30	0.64	840	0	0.04	53	640	158	1	4	124	0.04	5	5	24	5	184	TF
L9700E 10850N	15	0.2	2.75	78	70	1.5	1	0.53	0.5	38	30	47	5.15	5	40	0.3	40	0.72	1250	0	0.05	55	740	98	1	5	136	0.06	5	5	28	5	218	TF
L9700E 10800N	10	0.1	3.58	68	80	2	1	0.81	0.2	31	45	49	5.57	10	30	0.43	50	0.95	1380	1	0.06	47	670	60	1	8	90	0.06	5	5	41	5	176	TF
9100E	2	0.1	2.08	12	60	1.5	1	0.26	1	18	25	48	4.59	5	30	0.18	50	0.54	930	0	0	34	670	62	1	4	46	0	5	5	27	5	338	TF
9125E	10	0.1	1.21	34	50	1.5	1	0.34	1.5	23	11	75	5.98	5	10	0.07	30	0.23	1345	0	0	58	550	28	2	5	27	0	5	5	12	5	240	TF
9150E	2	0.1	1.24	46	30	0.5	1	0.06	0.2	20	13	44	4.36	5	30	0.08	40	0.22	465	0	0.01	42	1020	18	2	1	29	0	5	5	18	5	72	TF
9175E	2	0.1	1.32	8	40	0.5	1	0.01	0.2	11	15	27	3.84	5	20	0.04	10	0.3	445	0	0	25	880	36	1	0	8	0	5	5	13	5	86	TF
9200E	2	0.1	1.59	14	30	0.2	1	0.01	0.2	11	20	26	3.69	5	30	0.05	30	0.58	330	0	0	31	850	30	1	0	12	0	5	5	14	5	94	TF

Soil Sample Description Sheet

amp	Au_ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn	Comments
9225E	2	0.1	1.71	24	40	0.5	1	0.06	0.2	12	24	31	4	5	20	0.04	10	0.42	530	0	0	29	660	74	1	1	12	0.02	5	5	30	5	112	TF
9250E	45	6	0.66	354	40	0.5	4	0.03	37.5	19	11	314	6.87	5	60	0.05	10	0.09	9370	0	0	48	1080	2030	146	5	87	0	5	5	10	5	3740	TF
9275E	10	0.1	1.36	24	50	1.5	1	0.33	3	36	22	34	5.4	5	30	0.05	30	0.35	1510	0	0	55	790	32	2	7	36	0	5	5	18	5	382	TF
9300E	2	0.1	1.47	14	30	0.2	1	0.02	0.2	7	22	24	3.91	5	40	0.04	5	0.32	200	0	0	18	1450	26	1	0	8	0	5	5	24	5	76	TF
9325E	2	0.1	1.87	12	20	0.2	1	0.02	0.2	13	26	34	4.06	5	30	0.06	10	0.73	415	0	0	28	770	38	1	1	20	0	5	5	15	5	208	TF
9350E	2	0.1	2.28	8	50	0.5	1	0.08	0.5	12	34	32	4.85	5	40	0.07	10	0.45	1055	0	0	21	1070	24	1	3	19	0.03	5	5	28	5	88	TF
9375E	15	0.1	1.94	64	50	0.5	1	0.01	0.2	14	27	61	7.04	5	10	0.11	20	0.58	320	0	0.03	28	910	128	1	2	49	0.01	5	5	17	5	132	TF
9400E	5	0.1	2.14	28	50	0.2	1	0.07	0.2	8	35	22	5.47	10	40	0.15	20	0.39	240	1	0	21	2020	50	1	0	12	0.01	5	5	38	5	90	TF
9425E	10	0.1	1.06	202	90	2.5	1	0.03	6	41	8	53	6.69	5	20	0.08	50	0.14	2560	1	0	78	700	106	4	3	11	0	5	5	10	5	674	TF
9450E	2	0.1	1.97	90	100	3.5	1	0.11	0.2	24	18	39	4.58	5	50	0.17	30	0.29	1285	1	0	41	910	62	1	3	26	0	5	5	21	5	122	TF
9475E	2	0.1	1.74	120	70	0.5	1	0.06	0.2	13	21	51	4.72	5	20	0.14	40	0.4	435	1	0.02	31	1230	52	1	3	43	0.01	5	5	19	5	110	TF
9500E	5	0.1	1.21	358	30	0.5	8	0.02	0.2	18	18	45	5.73	5	20	0.07	20	0.27	555	0	0.01	36	1270	42	2	1	50	0	5	5	20	5	98	TF
9525E	10	0.1	1.84	156	50	0.5	1	0.04	0.2	18	22	35	5.28	5	10	0.08	30	0.38	685	0	0	39	1010	32	1	2	13	0	5	5	20	5	88	TF
9550E	30	0.2	4.12	154	50	1.5	1	0.68	0.2	13	40	22	4.11	10	10	0.18	10	1.04	765	0	0.04	33	480	30	1	5	92	0.07	5	5	34	5	90	TF
9575E	25	0.6	1.28	640	80	1	1	0.18	1.5	17	12	22	4.79	5	30	0.07	30	0.18	3030	0	0	25	790	440	2	5	27	0	5	5	15	5	820	TF
9600E	10	0.1	1.41	224	40	0.5	1	0.04	0.2	11	19	22	3.77	5	30	0.07	10	0.29	710	0	0	23	890	98	1	1	14	0	5	5	25	5	142	TF
9625E	10	0.1	1.44	198	50	1.5	1	0.19	0.2	23	19	22	5.29	5	10	0.07	50	0.28	1230	0	0	38	660	62	2	6	23	0	5	5	23	5	126	TF
9650E	165	73.8	0.53	2720	30	0.5	1	0	13.5	24	7	283	11.3	5	180	0.06	10	0.04	10000	2	0	20	770	25700	96	3	46	0	5	5	8	5	3900	TF
9675E	30	0.2	2.25	334	60	0.5	1	0.06	0.2	17	29	32	4.81	5	10	0.13	30	0.52	640	1	0	38	620	184	1	3	38	0.02	5	5	27	5	224	TF
9700E	20	0.1	2.55	162	80	2	1	0.55	0.5	34	33	44	5.91	5	30	0.26	90	0.58	1960	0	0.06	62	820	70	1	9	78	0.02	5	5	32	5	164	TF
9725E	20	0.1	1.87	140	70	2	1	0.1	0.5	30	20	48	8.11	5	10	0.1	60	0.42	1960	0	0	53	1030	108	2	7	22	0	5	5	22	5	222	TF
9750E	15	0.1	1.63	100	50	1	1	0.09	1.5	24	23	35	4.9	5	30	0.11	50	0.44	1760	0	0	36	890	136	1	5	17	0.01	5	5	23	5	262	TF
9775E	55	0.1	2.21	74	60	1.5	20	0.12	0.2	16	26	66	5	5	5	0.11	50	0.41	1075	1	0.01	39	1130	20	1	6	18	0.01	5	5	30	5	92	TF
9800E	15	0.1	4.45	128	40	2	4	1	0.2	38	30	150	4.8	10	40	0.11	40	0.54	885	2	0.02	59	1690	20	1	4	105	0.05	5	5	35	5	80	TF
9825E	10	0.1	4.24	60	40	2.5	1	0.87	0.2	28	28	184	4.4	10	20	0.06	50	0.39	1075	0	0.05	35	350	18	1	9	300	0	5	5	30	5	68	TF
9850E	10	0.1	4.41	96	70	1.5	1	0.35	0.5	22	33	86	4.56	10	20	0.06	30	0.57	1585	1	0	38	1310	30	2	4	35	0.06	5	5	39	5	142	TF
9875E	10	0.1	4.34	148	60	1.5	1	0.1	0.2	22	37	116	5.07	5	20	0.14	40	0.67	510	1	0	45	1350	44	1	5	18	0.05	5	5	38	5	116	TF
9900E	65	0.2	4.39	286	50	1.5	176	0.21	0.2	47	150	96	6.6	10	30	0.35	40	2.38	1790	0	0.02	115	860	52	1	12	28	0.09	5	5	84	5	124	TF
9925E	15	0.1	5.04	290	50	2	10	1.81	0.2	27	26	147	4.59	10	10	0.27	30	0.49	415	1	0.01	51	1260	18	1	3	161	0.02	5	5	24	5	90	TF
9950E	10	0.1	3.09	78	80	1.5	1	0.05	0.2	6	38	210	5.16	5	5	0.53	60	0.55	205	0	0.04	16	1120	6	1	5	213	0.07	5	5	29	5	44	TF
9975E	40	1	1.03	10000	90	2.5	292	0.04	2.5	122	6	520	12.6	5	30	0.08	110	0.12	3960	1	0	105	710	356	38	9	37	0	5	5	10	5	580	TF/DYKE?
10000E	30	0.2	2.46	762	80	0.5	28	0.19	0.2	25	28	315	5.84	5	20	0.3	70	0.69	320	1	0.02	43	1970	28	1	4	113	0.03	5	5	27	5	80	TF/PS
10025E	2	0.1	1.21	220	20	0.2	1	0.08	0.2	9	10	42	1.71	5	5	0.05	10	0.26	135	0	0.01	25	690	8	1	1	12	0.01	5	5	15	5	38	TF
10050E	2	0.1	1.91	1330	50	0.5	1	0.08	0.2	7	32	95	5.44	5	30	0.43	20	0.6	95	1	0.02	19	1260	16	1	4	43	0.06	5	5	26	5	40	TF/PS
10075E	2	0.1	3.21	2300	50	1.5	10	0.13	0.2	22	32	330	7.21	10	5	0.15	30	0.6	340	1	0.01	43	1190	14	4	5	48	0.04	5	5	32	5	66	TF
10100E	2	0.1	1.65	106	50	0.5	1	0.04	0.2	3	28	47	5.32	5	5	0.38	50	0.51	55	0	0.04	7	1220	10	1	3	89	0.04	5	5	19	5	30	TF
10125E	2	0.2	3.35	2230	50	2	8	0.28	0.2	41	38	450	8.45	10	30	0.1	70	1.27	1020	2	0.01	102	800	12	2	14	66	0.04	5	5	64	5	80	TF/PS
10150E	2	0.1	1.58	186	40	2	1	0.14	0.2	9	15	33	3.04	5	20	0.07	60	0.3	545	0	0.01	27	950	14	1	4	19	0	5	5	19	20	64	TF
10175E	2	0.1	2.69	198	50	1	1	0.1	0.2	38	25	100	7.38	5	10	0.23	40	0.65	365	1	0	66	700	12	1	7	53	0.03	5	5	28	5	74	TF
10200E	2	0.1	3.02	218	60	0.5	1	0.15	0.2	13	30	65	4.7	5	5	0.23	20	0.71	260	1	0.01	34	1230	12	1	4	34	0.06	5	5	34	5	80	TF
10225E	2	0.1	1.31	56	30	0.5	1	0.11	0.2	8	16	26	3.12	5	5	0.06	10	0.29	155	0	0.01	20	960	6	1	1	16	0	5	5	22	5	36	TF
10250E	20	0.1	4.4	154	40	1	1	0.17	0.2	22	37	138	8.47	10	20	0.28	20	0.75	325	1	0	41	1500	62	1	6	67	0.08	5	5	41	5	120	TF
10275E	10	0.1	1.8	14	10	2	1	0.47	0.2	8	21	70	8.23	5	10	0.07	140	0.56	1075	0	0	48	820	2	8	18	22	0	5	5	30	5	78	TF
10300E	2	0.1	3.6	64	60	1.5	1	0.32	0.2	18	30	63	5.14	10	30	0.15	30	0.6	670	1	0.01	40	1010	12	1	3	60	0.04	5	5	35	5	66	TF
1400N 9750E	35	0.2	2.04	320	60	1	2	0.53	0.5	28	19	114	4.39	5	90	0.13	30	0.43	1195	2	0.01	42	1030	116	1	3	54	0.02	5	5	25	5	232	
1400N 9800E	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
1400N 9850E	25	0.6	2.09	412	50	1	2	0.57	0.5	26	24	104	5.46	5	30	0.2	40	0.62	975	1	0.03	46	820	134	1	4	98	0.03	5	5	23	5	252	
1400N 9900E	10	1.2	2.44	424	30	0.5	44	0.12	0.2	16	21	217	5.83	5	50	0.11	10	0.35	710	1	0.01	20	1050	52	1	2	14	0.04	5	5	30	5	110	
1400N 9950E	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
S																																		
1400N10050E	5	0.1	1.3	28	20	0.2	1	0.03	0.2	4	16	20	2.61	5	20	0.05	5	0.33	120	1	0.03	11	900	16	1	0	6	0	5	5	17	5	40	
1400N10100E	2	0.1	0.81	32	20	0.2	1	0.06	0.2	2	5	25	0.81	5	10	0.03	5	0.1	50	0	0.03	5	450	6	1	0	6	0.01	5	5	11	5	16	
1400N10150E	-1	0.4	2.45	2970	30	1.5	16	0.36	0.2	39	27	357	7.09	5	40	0.15	40	0.55	815	1	0.05	52	910	14	1	7	40	0.04	5	5	35	5	56	
1400N10200E	10	0.1	3.43	118	40	1.5	2	1.32	0.2	24	31	92	5.2	10	5	0.15	30	0.55	500	1	0.17	49	700	22	1	7	216	0.07	5	5	32	5	76	
1400N10250E	10	0.1	2.04	60	100	1.5	1	0.58	0.5	26	25	57	4.93	5	10	0.14	40	0.9	550	2	0.03	48	860	52	1	6	54	0	5	5	35	5	208	
1400N10300E	5	0.4	2.01	50	90	1	1	0.66	0.5	20	25	57	4.75	5	10	0.14	30	1.05	445	3	0.02	44	990	42	4	7	50	0	5	5	41	5	204	
1400N10350E	2	0.4	1.02	4	150	0.5	1	2.53	1	8	14	26	1.8	5	50	0.09	10	1.06	185	1	0	17	1280	12	2	4	109	0	5	5	26	5	116	
1400N10400E	2	0.1	2.82	10	90	1	1	0.7	0.2	12	31	23	3.23	5	60	0.14	30	3.42	655	1	0	21	1320	16	1	10	40	0	5	5	23	5	72	

Soil Sample Description Sheet

amp	Au_ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn	Comments
400N10450E	2	0.1	2.46	1	110	1	1	0.76	0.2	8	25	13	2.66	5	10	0.14	30	2.47	705	1	0	15	1120	16	1	10	50	0	5	5	17	5	52	
400N10500E	2	0.1	2.38	8	180	1	1	1.44	0.2	13	21	19	3.1	5	10	0.2	30	2.19	505	1	0.01	18	1430	20	1	7	71	0	5	5	15	5	68	
000N 9250E	15	0.1	3.6	36	30	1.5	1	1.16	0.2	36	31	90	6.08	10	10	0.14	30	0.9	825	1	0.03	61	730	86	1	5	149	0.07	5	5	31	5	234	
000N 9300E	15	0.1	3.31	42	50	1.5	1	0.21	0.2	23	30	77	7.22	5	40	0.14	30	0.67	465	1	0.01	38	1600	82	1	4	82	0.04	5	5	29	5	192	
000N 9350E	2	0.2	1.51	30	60	1	1	0.43	0.5	17	23	46	4.7	5	30	0.2	30	0.34	1280	0	0.02	40	950	68	6	7	48	0.01	5	5	23	5	204	
000N 9400E	2	0.8	1.46	128	60	2	1	0.4	1.5	22	20	68	4.91	5	10	0.14	40	0.38	1590	0	0.01	43	750	268	2	5	52	0.01	5	5	18	5	392	
000N 9450E	2	0.2	1.75	36	50	1	1	0.4	1.5	17	22	45	4.31	5	10	0.12	40	0.6	910	0	0.03	36	650	120	1	4	75	0.03	5	5	21	5	374	
000N 9500E	2	0.6	4.89	22	40	1.5	1	2.83	0.2	20	41	44	5.32	10	50	0.24	20	0.96	635	0	0.35	41	740	62	1	7	731	0.13	5	5	40	5	134	
000N 9550E	5	0.1	3.56	122	40	1.5	1	1.31	0.2	25	32	53	5.75	10	40	0.24	30	1.01	775	1	0.17	45	930	66	1	6	484	0.07	5	5	32	5	180	
000N 9600E	2	1	2.12	432	40	1	1	0.66	0.5	22	20	57	5.42	5	10	0.11	30	0.52	1155	1	0.07	36	670	160	1	4	185	0.03	5	5	21	5	250	
000N 9650E	30	0.4	2.45	824	40	2	1	0.18	1.5	67	23	111	8.12	5	10	0.12	70	0.61	3110	1	0	111	820	144	4	6	78	0	5	5	25	5	554	
200N 9625E	2	0.4	2.01	132	60	0.5	1	0.82	2	16	25	35	3.58	5	30	0.12	10	0.52	845	0	0.03	28	1020	152	2	3	92	0.03	5	5	22	5	242	
200N 9675E	2	0.1	2.36	80	40	0.5	1	0.16	0.2	16	23	39	3.76	5	30	0.13	30	0.53	560	0	0	32	1140	34	1	1	23	0.03	5	5	18	5	96	
200N 9725E	2	0.4	2.5	78	70	1	1	0.24	0.5	11	26	35	3.94	5	10	0.14	30	0.53	410	1	0.01	33	710	120	1	3	48	0.03	5	5	24	5	206	
200N 9775E	2	0.4	2.22	88	50	0.5	1	0.13	0.5	11	23	33	3.78	5	20	0.12	20	0.48	360	1	0	30	730	120	1	1	34	0.03	5	5	22	5	200	
200N 9825E	2	0.1	2.34	46	60	0.5	1	0.12	0.2	13	20	29	3.36	5	10	0.14	40	0.55	330	0	0	30	490	36	1	3	23	0.02	5	5	14	5	84	
200N 9875E	-1	0.2	0.87	52	180	0.5	1	1.04	6.5	20	10	43	1.42	5	80	0.11	10	0.2	4420	1	0	21	1520	32	6	0	93	0	5	5	8	5	138	
S																																		
200N 9975E	2	0.1	1.63	88	50	0.5	6	0.09	0.2	11	23	62	3.68	5	40	0.13	10	0.34	560	3	0.01	26	920	24	1	0	17	0.02	5	5	28	5	84	
200N10025E	10	0.1	1.97	698	60	1.5	6	0.28	0.2	33	25	179	5.52	5	20	0.21	40	0.47	1070	1	0.01	56	730	38	2	4	34	0.03	5	5	28	5	142	
200N10075E	5	0.2	2.35	566	50	1	6	0.09	0.2	25	26	132	4.69	5	10	0.16	30	0.43	1115	1	0.01	39	1080	38	2	3	18	0.03	5	5	29	5	116	
200N10125E	20	0.2	2.72	1480	60	1.5	2	0.29	0.2	39	26	115	5.67	5	30	0.21	40	0.51	955	1	0.01	61	830	32	1	4	41	0.04	5	5	29	5	104	
200N10175E	15	0.1	2.43	1035	60	1.5	2	0.29	0.2	32	27	99	5.67	5	5	0.22	40	0.52	935	1	0.01	57	650	38	4	4	43	0.05	5	5	29	5	116	
200N10225E	10	0.1	2.56	380	60	1.5	1	0.45	0.2	31	27	81	4.82	5	30	0.2	40	0.55	965	1	0.01	50	940	26	2	4	61	0.04	5	5	29	5	92	
0100N 9650E	2	0.4	2.52	88	50	1	1	0.77	2	12	28	34	3.81	5	30	0.13	10	0.6	400	1	0.05	33	830	210	1	4	111	0.04	5	5	24	5	308	
0100N 9675E	10	0.8	2.59	62	50	1	1	0.27	1	10	28	30	3.88	5	10	0.11	10	0.63	355	1	0.02	33	700	260	1	3	55	0.04	5	5	24	5	354	
0100N 9700E	10	0.2	1.18	18	30	0.2	1	0.18	0.2	3	9	10	1.65	5	30	0.04	5	0.2	150	0	0.01	8	780	116	1	0	21	0.01	5	5	13	5	88	
0100N 9725E	2	0.2	1.94	66	50	0.5	1	0.14	0.2	10	22	31	3.4	5	10	0.09	10	0.47	320	1	0.01	28	730	70	1	2	30	0.01	5	5	20	5	156	
0100N 9750E	2	0.2	1.99	78	50	0.5	1	0.17	0.5	11	22	34	3.78	5	30	0.12	10	0.48	385	0	0	31	880	84	2	1	42	0.02	5	5	21	5	178	
0100N 9775E	5	0.2	2.3	70	60	0.5	1	0.08	0.2	11	24	30	3.74	5	10	0.11	10	0.54	340	1	0	29	730	74	1	1	26	0.01	5	5	20	5	158	
0100N 9800E	2	0.2	2.3	88	70	0.5	1	0.14	0.5	9	24	30	3.56	5	20	0.09	10	0.5	310	1	0	27	1080	46	1	2	28	0.02	5	5	19	5	140	
0100N 9825E	2	0.2	1.21	10	40	0.2	1	0.1	0.2	5	8	16	1.54	5	30	0.04	10	0.14	530	0	0.03	9	1170	18	1	0	11	0	5	5	11	5	40	
0100N 9850E	2	0.1	1.93	102	50	0.5	2	0.08	0.2	11	22	41	3.5	5	10	0.09	10	0.47	450	1	0.01	27	570	40	2	1	18	0.02	5	5	20	5	106	
0100N 9875E	2	0.2	1.48	126	40	0.5	6	0.16	0.2	9	14	55	2.46	5	5	0.07	10	0.25	355	3	0.03	23	520	22	8	1	18	0.01	5	5	16	5	58	
0100N 9900E	2	0.1	1.47	100	50	0.5	8	0.36	0.2	14	17	42	2.61	5	30	0.07	10	0.29	1010	8	0.01	18	970	30	1	0	35	0.01	5	5	18	5	80	
0100N 9925E	2	0.2	2.01	140	40	1	10	0.11	0.2	22	24	97	4.07	5	5	0.12	10	0.39	1040	4	0.01	41	710	40	4	3	17	0.01	5	5	23	5	114	
0100N 9950E	10	0.1	2.84	176	70	1	10	0.12	0.2	31	46	115	5.71	5	70	0.24	30	0.71	1440	5	0.01	60	1040	46	2	5	22	0.04	5	5	39	5	146	
0100N 9975E	5	0.1	2.2	328	60	1	4	0.16	0.2	13	25	88	4.5	5	20	0.14	20	0.48	490	1	0	36	980	36	1	1	28	0.01	5	5	24	5	118	
0100N10025E	10	0.2	1.59	408	60	0.5	6	0.27	3	38	21	107	3.88	5	40	0.19	20	0.36	1780	1	0.01	34	1190	28	2	1	36	0.01	5	5	22	5	136	
0100N10050E	15	0.2	2.32	780	60	1.5	8	0.2	0.2	30	28	170	5.75	5	10	0.19	30	0.49	855	1	0.01	51	810	38	6	4	34	0.03	5	5	30	5	128	
0100N10075E	20	0.2	3.17	1690	60	2	4	0.38	0.2	42	31	124	5.84	5	30	0.23	40	0.6	1080	1	0.01	62	1100	32	2	5	46	0.04	5	5	32	5	114	
0100N10100E	10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
0100N10125E	10	0.2	2.98	854	50	1.5	1	0.21	0.2	22	25	94	4.61	5	60	0.17	30	0.46	560	0	0.01	48	930	20	1	3	30	0.04	5	5	26	5	86	
0100N10150E	25	0.1	2.75	1060	70	1.5	2	0.21	0.2	35	27	83	4.61	5	40	0.18	30	0.48	1105	0	0.01	46	1060	30	1	3	30	0.04	5	5	30	5	96	
S																																		
0100N10200E	15	0.2	2.15	748	50	1	2	0.26	0.2	21	25	80	4.55	5	10	0.18	30	0.45	690	1	0.01	41	700	36	4	3	33	0.03	5	5	26	5	122	
0100N10225E	5	0.1	1.72	132	50	0.5	1	0.33	0.2	24	17	50	2.87	5	60	0.14	20	0.3	1150	0	0.01	30	920	18	1	1	37	0.04	5	5	18	5	60	
0100N10250E	5	0.1	1.89	104	60	0.5	1	0.13	0.2	8	21	28	2.85	5	40	0.13	10	0.42	240	0	0.01	23	910	58	1	1	25	0.02	5	5	22	5	124	
900N9700E	10	0.1	1.09	38	20	0.2	1	0.2	0.2	20	14	39	4.4	5	5	0.03	10	0.49	430	0	0	40	510	56	2	2	34	0	5	5	9	5	136	TF
900N9725E	5	0.1	1.15	36	20	0.2	1	0.16	0.2	17	14	35	4.31	5	10	0.02	20	0.54	460	0	0	38	500	52	1	2	28	0	5	5	9	5	130	TF
900N9750E	2	0.1	1.45	38	30	0.2	1	0.17	0.2	13	19	36	4.61	5	10	0.04	30	0.61	755	1	0	32	630	108	1	3	27	0	5	5	13	5	118	TF
900N9775E	10	0.2	1.08	88	40	0.2	1	0.18	0.2	12	10	34	3.49	5	30	0.05	20	0.35	515	0	0.01	28	700	46	2	1	24	0	5	5	9	5	106	TF
900N9800E	2	0.1	1.49	28	40	0.2	1	0.27	0.2	11	14	23	3.39	5	10	0.03	10	0.54	570	0	0.01	25	650	34	1	3	32	0	5	5	12	5	80	TF
900N9825E	20	0.1	2.72	78	70	0.2	1	0.75	0.2	18	30	25	4.28	5	20	0.09	10	1.23	780	0	0.1	25	560	44	1	4	71	0.04	5	5	40	5	116	TF/PS
900N9850E	2	0.1	1.23	54	60	0.5	1	0.35	0.2	10	8	20	3.43	5	50	0.05	10	0.21	875	1	0.01	19	1130	46	1	2	34	0	5	5	11	5	92	TF/PS
900N9875E	40	0.6	1.04	168	70	0.5	1	0.43	0.2	22	9	52	5.44	5	20	0.07	10	0.28	940	1	0	42	710	138	2	4	52	0	5	5	11	5	202	TF
900N9900E	2	0.1	0.89	10	60	0.2	1	0.74	0.2	4	4	11	1.59	5	40	0.05	5	0.12	1265	1	0.03	6	580	36	1	1	49	0	5	5	7	5	102	TF/PS
900N9925E	20	0.2	0.98	86	50	0.5	1	0.62	0.2	14	9	30	3.77	5	40	0.07	10	0.27	1285	0	0.01	24	810	80	1	4	58	0	5	5	12	5	156	TF/PS

Soil Sample Description Sheet

samp	Au_ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn	Comments
9950E	10	0.1	1.19	158	70	0.5	1	0.39	0.2	16	10	39	4.24	5	30	0.07	30	0.31	1545	1	0	30	730	116	1	4	36	0	5	5	12	5	186	TF/PS
9975E	10	0.1	1.02	80	50	0.5	1	0.1	0.2	17	10	43	4.75	5	30	0.06	40	0.27	1520	0	0	32	820	86	1	5	14	0	5	5	11	5	182	TF
N 10000E	10	0.1	1.36	110	20	0.2	1	0.15	0.2	16	15	52	5.43	5	10	0.03	20	0.38	530	0	0	33	840	72	1	1	19	0	5	5	13	5	126	
N 10025E	5	0.1	1.05	28	10	0.2	1	0.02	0.2	8	13	23	3.49	5	30	0.03	10	0.16	245	0	0	17	720	30	1	0	6	0	5	5	17	5	68	
N 10050E	2	0.1	1.76	72	20	0.2	1	0.03	0.2	12	20	34	4.98	5	20	0.03	10	0.42	475	1	0	27	630	52	1	1	6	0	5	5	16	5	98	
N 10075E	2	0.1	1.32	38	20	0.2	1	0.01	0.2	5	18	15	4.02	5	10	0.02	5	0.27	200	0	0	14	530	30	1	0	8	0.01	5	5	21	5	68	
N 10100E	2	0.2	1.46	90	20	0.2	1	0.04	0.2	12	25	39	4.77	5	30	0.03	10	0.32	355	0	0	35	830	56	2	1	7	0	5	5	14	5	98	
N 10125E	2	0.1	0.64	30	30	0.2	1	0	0.2	6	7	15	2.44	5	10	0.03	10	0.04	135	1	0	12	690	26	1	0	4	0	5	5	20	5	44	
N 10150E	2	0.2	1.56	92	20	0.2	1	0.05	0.2	14	18	52	5.27	5	40	0.04	10	0.35	540	0	0	30	1240	72	2	1	8	0	5	5	15	5	114	
N 10175E	2	0.2	1.32	78	20	0.2	1	0.05	0.2	16	15	50	4.3	5	30	0.04	10	0.37	685	0	0	29	1030	56	1	1	10	0	5	5	12	5	114	
N 10200E	2	0.2	1.05	18	30	0.2	1	0.04	0.2	7	8	11	1.59	5	20	0.04	5	0.17	625	1	0.02	6	770	22	1	0	7	0	5	5	12	5	28	
ON 9625E	2	0.2	1.15	40	40	0.2	1	0.48	0.2	10	9	26	3.12	5	10	0.03	10	0.29	265	0	0.03	24	790	54	2	1	55	0	5	5	8	5	92	PS
ON 9675E	5	0.1	1.88	52	30	0.5	1	0.07	0.2	19	19	60	4.7	5	10	0.06	20	0.53	725	0	0	44	500	56	1	3	16	0	5	5	14	5	112	
ON 9725E	2	0.1	1.24	30	30	0.5	1	0.23	0.2	18	15	42	4.26	5	10	0.02	5	0.55	350	0	0	37	440	60	1	3	31	0	5	5	8	5	134	
ON 9775E	10	0.2	1.22	40	30	0.5	1	0.15	0.2	16	14	39	4.16	5	10	0.02	5	0.49	315	0	0	32	430	58	1	2	22	0	5	5	9	5	122	
ON 9825E	2	0.1	1.33	72	30	0.5	1	0.45	0.2	15	16	36	4.02	5	10	0.07	10	0.49	680	0	0.01	34	550	46	1	3	53	0	5	5	11	5	126	CREEK AT 9825E
ON 9875E	2	0.1	1.68	82	30	0.5	1	0.39	0.2	10	16	28	3.74	5	20	0.05	10	0.36	440	3	0.01	24	940	40	1	1	32	0.01	5	5	13	5	84	
ON 9925E	10	0.1	1.75	130	40	0.5	8	0.08	0.2	10	19	58	3.29	5	10	0.07	10	0.35	460	4	0.01	26	590	42	2	1	14	0.01	5	5	19	5	88	
ON 9975E	10	0.1	2.32	202	80	1	10	0.39	0.2	18	33	70	4.49	5	10	0.09	10	0.57	995	13	0	36	1060	54	2	3	45	0.01	5	5	30	5	120	
ON10025E	2	0.1	1.89	170	60	0.5	1	0.25	0.2	10	24	31	4.27	5	5	0.06	10	0.48	260	10	0	25	600	38	2	2	24	0.01	5	5	24	5	84	
ON10075E	2	0.1	1.23	54	10	0.2	1	0.1	0.2	17	14	36	4.08	5	10	0.04	20	0.46	520	0	0	32	400	38	1	2	14	0	5	5	9	5	100	
ON10125E	2	0.1	2.62	570	50	1	1	0.44	0.2	17	29	50	4.36	5	10	0.13	30	0.62	545	3	0	36	1110	34	1	3	45	0.03	5	5	28	5	110	
ON10175E	15	0.1	2.61	900	50	1.5	2	0.2	0.2	18	24	77	4.72	5	10	0.13	30	0.49	465	0	0.01	44	830	26	1	3	35	0.03	5	5	27	5	92	
ON10225E	2	0.1	2.5	180	40	1	1	0.15	0.2	7	17	48	2.79	5	20	0.08	20	0.33	215	0	0.01	22	1100	18	1	1	21	0.02	5	5	21	5	58	
0N 10650E	10	0.1	1.49	54	20	0.2	1	0.05	0.2	9	18	32	4.16	5	20	0.05	10	0.31	335	0	0	21	650	38	4	1	9	0	5	5	18	5	72	
0N 10700E	2	0.2	1.23	42	40	0.2	1	0.04	0.2	9	16	41	4.07	5	5	0.04	10	0.3	355	0	0	23	610	32	1	1	8	0	5	5	16	5	78	
0N 10750E	2	0.2	2.14	48	20	0.5	1	0.08	0.2	15	20	40	4.26	5	40	0.06	10	0.33	490	0	0	29	610	38	6	2	10	0.01	5	5	15	5	82	
0N 10800E	2	0.6	1.36	132	20	0.2	2	0.06	0.2	11	21	45	5.92	5	40	0.04	10	0.3	500	1	0	24	780	56	1	1	9	0.01	5	5	20	5	92	
0N 10825E	2	0.2	0.97	52	10	0.2	1	0.2	0.2	6	11	37	3.34	5	10	0.03	20	0.18	165	0	0	18	500	24	2	1	16	0	5	5	15	5	76	
0N 10850E	2	0.1	1.33	46	20	0.2	1	0.11	0.2	9	16	38	4.06	5	10	0.04	20	0.29	395	1	0	22	640	36	2	1	12	0	5	5	15	5	84	
0N 10875E	2	0.4	1.27	54	20	0.2	1	0.07	0.2	9	19	33	4.84	5	30	0.03	20	0.29	320	0	0	22	610	46	1	1	11	0.01	5	5	15	5	82	
0N 10900E	2	0.6	2.49	62	30	0.5	1	0.09	0.2	10	21	38	4.14	5	40	0.06	10	0.32	310	0	0	26	710	36	1	2	11	0.01	5	5	14	5	76	
0N 10925E	2	0.1	1.26	30	30	0.2	1	0.05	0.2	6	15	20	2.94	5	5	0.04	20	0.35	205	0	0	17	510	24	1	0	10	0.01	5	5	16	5	66	
0N 10950E	2	0.1	1.06	28	30	0.2	1	0.04	0.2	3	11	12	2.02	5	20	0.03	10	0.17	130	1	0	8	670	20	1	0	8	0	5	5	15	5	38	
0N 10975E	2	0.1	0.25	2	10	0.2	1	0.04	0.2	0	1	1	0.37	5	5	0.02	5	0.01	80	0	0.01	1	470	4	1	0	5	0	5	5	5	5	8	PS
0N 11000E	2	0.1	0.86	34	10	0.2	2	0.03	0.2	6	16	14	4	10	30	0.04	10	0.15	240	0	0	12	420	26	1	0	4	0.02	5	5	31	5	48	
0N 11025E	2	0.1	0.4	1	10	0.2	1	0.01	0.2	0	3	1	0.44	5	5	0.03	10	0.03	40	0	0.02	1	180	6	1	0	4	0	5	5	9	5	8	
0N 11050E	2	0.2	0.93	52	10	0.2	1	0.06	0.2	7	13	25	2.9	5	30	0.05	10	0.15	330	0	0.01	13	460	26	1	0	9	0.01	5	5	21	5	44	
0N 11075E	2	0.1	0.52	34	10	0.2	1	0.03	0.2	5	8	16	2.39	5	10	0.03	5	0.12	330	0	0.01	10	270	16	1	0	3	0.01	5	5	19	5	30	
0N 11100E	2	0.1	0.63	74	20	0.2	1	0.04	0.2	21	7	29	3.93	5	20	0.04	5	0.1	1000	0	0.01	39	680	52	10	0	8	0	5	5	11	5	164	
0N 11125E	2	0.2	1.45	42	30	0.5	1	0.15	0.2	15	17	36	3.79	5	20	0.05	30	0.5	585	0	0	32	420	48	2	3	23	0	5	5	11	5	116	CREEK AT 11115E
0N 11150E	2	5	3.04	68	30	0.5	1	0.49	0.2	16	23	33	4.3	5	60	0.05	10	0.35	705	0	0	23	880	68	1	3	33	0.02	5	5	17	5	138	
0N 11175E	2	0.1	0.36	16	10	0.2	1	0.02	0.2	0	3	2	0.43	5	10	0.04	30	0.03	50	0	0	1	220	8	1	0	4	0	5	5	8	5	10	
0N 11200E	2	0.1	1.39	30	30	0.2	1	0.07	0.2	8	20	26	3.65	5	40	0.06	20	0.39	365	0	0	23	540	34	1	1	9	0.01	5	5	17	5	78	
0N 11225E	2	0.1	1.33	42	30	0.2	1	0.03	0.2	5	17	27	3.22	5	20	0.05	10	0.33	175	0	0	18	380	20	1	1	7	0.01	5	5	20	5	70	
0N 11250E	2	0.1	1.43	24	30	0.2	1	0.05	0.2	5	16	17	2.83	5	10	0.05	20	0.38	160	0	0	16	460	22	1	1	9	0	5	5	15	5	62	
0N 11275E	20	0.2	1.43	160	30	0.2	1	0.06	0.2	7	19	42	3.6	5	30	0.06	10	0.31	160	0	0	21	580	38	2	1	8	0.01	5	5	20	5	90	
0N 11300E	2	0.1	0.6	10	10	0.2	1	0.01	0.2	1	5	5	0.97	5	20	0.03	10	0.05	35	0	0	4	300	8	1	0	4	0	5	5	8	5	16	
N 10300E	20	0.1	0.71	34	20	0.2	2	0.01	0.2	5	6	32	2.24	5	10	0.03	10	0.05	165	0	0	9	560	18	1	0	5	0	5	5	19	5	40	
N 10350E	10	0.2	1.56	74	30	0.2	2	0.05	0.2	7	17	47	4.3	5	10	0.04	20	0.24	255	0	0	17	640	38	8	1	10	0.01	5	5	23	5	64	
N 10400E	5	0.2	1.41	44	40	0.2	2	0.04	0.2	6	20	21	4.25	10	10	0.05	20	0.2	215	1	0	13	440	28	1	0	13	0.02	5	5	31	5	60	
N 10450E	2	0.2	2.38	76	30	0.2	1	0.06	0.2	8	25	23	4.7	5	30	0.04	20	0.34	385	1	0	21	750	32	2	1	12	0.01	5	5	21	5	64	
N 10500E	2	0.2	1.06	136	20	0.2	1	0.03	0.2	5	13	27	3.24	5	10	0.04	10	0.21	195	0	0.01	14	430	22	2	0	7	0.01	5	5	19	5	56	
N 10550E	25	0.1	1.62	16	40	0.2	1	0.05	0.2	5	23	16	3.34	10	50	0.05	20	0.33	145	0	0	15	630	20	2	1	11	0.01	5	5	29	5	52	
9600E	10	0.2	1.4	28	10	0.2	1	0.11	0.2	24	17	42	4.12	5	5	0.01	5	0.7	455	0	0	43	350	44	1	1	21	0	5	5	8	5	118	TF
9650E	10	0.1	1.36	30	20	0.5	1	0.15	0.2	21	17	40	4.58	5	10	0.02	30	0.67	535	0	0	44	450	58	1	2	25	0	5	5	9	5	146	TF
9700E	45	1	0.62	294	40	0.5	1	0.21	1	22	6	66	5.63	5	10	0.07	30	0.16	1645	0	0	43	750	248	2	3	42	0	5	5	7	5	322	TF
9750E	2	0.1	1.21	72	70	0.5	1	0.23	0.2	34	12	45	3.87	5	50	0.12	40	0.38	1220	1	0	46	930	84	2	3	28	0	5	5	9	5	156	TF/PS

Soil Sample Description Sheet

Samp	Au_ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn	Comments
1000N 9750E	20	0.1	2.98	140	80	1.5	1	0.54	0.5	34	31	58	5.57	5	5	0.29	40	0.77	1110	1	0.06	55	820	90	1	6	117	0.06	5	5	31	5	250	
1000N 9800E	805	14.6	2.17	10000	40	3	508	0.2	0.2	219	23	6270	13.3	10	30	0.23	110	0.63	2670	1	0.01	106	790	742	20	8	31	0	5	5	29	5	498	
S																																		
S																																		
1000N 9950E	75	0.4	3.25	1175	50	2	70	0.35	0.2	57	64	458	7.46	10	10	0.27	50	1.08	1050	2	0.05	89	670	46	1	10	40	0.04	5	5	52	5	154	
S																																		
1000N10000E	10	0.1	3.57	360	60	2	12	0.33	0.2	51	33	327	8.2	10	5	0.31	50	0.68	845	1	0.03	84	1010	26	1	7	77	0.06	5	5	37	5	120	
1000N10100E	15	0.2	3.25	896	10	2	6	1.62	0.2	58	27	661	8.41	10	20	0.1	40	0.39	1130	1	0.18	80	600	16	1	7	301	0.07	5	5	33	5	80	
1000N10150E	2	0.4	4.19	16	30	1.5	1	13.9	0.2	13	33	35	3.77	10	10	0.17	5	0.49	225	2	0.33	32	520	16	1	6	850	0.08	5	10	31	5	98	
1000N10200E	10	0.1	2.96	100	20	2	1	2.68	0.2	25	29	143	7.44	5	10	0.12	30	0.53	1165	1	0.06	59	690	14	1	7	120	0.01	5	5	33	5	78	
L9700E 10450N	10	0.8	2.75	68	50	1	1	0.39	2	15	29	33	4.17	5	10	0.12	20	0.63	670	1	0.05	37	580	278	1	4	86	0.05	5	5	25	5	382	
L9700E 10500N	15	1.2	2.65	44	40	0.5	1	1.03	3.5	14	28	37	4.04	5	10	0.1	10	0.54	480	1	0.11	35	460	430	1	5	198	0.04	5	5	25	5	674	
L9700E 10550N	10	0.6	1.08	82	60	0.5	1	0.34	3.5	12	13	15	2.41	5	60	0.09	10	0.24	1210	0	0	15	1080	120	2	0	40	0	5	5	16	5	196	
L9700E 10600N	2	0.1	0.62	36	40	0.2	1	0.14	0.5	5	4	6	1.17	5	30	0.04	5	0.06	660	0	0.01	5	670	34	1	0	14	0	5	5	11	5	48	
L9700E 10650N	15	0.2	2.2	114	70	1	1	0.38	0.2	18	21	27	3.25	5	30	0.17	40	0.43	975	0	0.03	28	910	62	1	3	52	0.03	5	5	22	5	126	
L9700E 10700N	25	0.2	3.13	144	80	1.5	1	0.64	0.2	26	31	43	4.98	5	10	0.36	50	0.7	1500	0	0.08	47	930	80	1	5	155	0.06	5	5	28	5	166	
L9700E 10750N	25	0.1	1.56	200	70	2	1	0.26	0.5	24	16	30	5.01	5	60	0.14	90	0.3	1650	1	0	37	780	64	2	5	32	0	5	5	19	5	172	
L9700E 11250N	40	1.2	2.24	676	40	1.5	2	0.76	3.5	24	28	103	5.5	5	50	0.21	40	0.61	1610	1	0.06	45	640	268	2	6	104	0.03	5	5	29	5	510	
L9700E 11300N	25	2	2.22	902	50	1.5	1	0.5	4	28	23	138	5.54	5	50	0.14	50	0.48	1830	1	0.04	46	740	602	6	6	77	0.01	5	5	27	5	714	
L9700E 11350N	75	0.2	2.4	470	50	1	8	0.17	0.2	22	16	105	3.15	5	50	0.08	20	0.31	1120	4	0.01	30	1000	52	1	3	28	0.02	5	5	20	5	118	
L9700E 11400N	70	0.2	3.9	446	60	2	6	0.24	0.2	39	27	208	5	10	40	0.12	40	0.53	1375	4	0.01	62	1190	96	1	5	36	0.04	5	5	32	5	238	
11100E 8900N	20	0.4	0.63	42	30	0.2	2	0	1	11	18	26	3.55	5	10	0.12	40	0.07	530	0	0	24	450	156	1	3	8	0	5	5	18	5	198	Tal. fines, wk soil dev
11100E 8950N	20	1.8	0.45	144	20	0.2	1	0	0.2	3	12	32	2.88	5	70	0.08	40	0.05	55	0	0	9	490	550	4	2	10	0	5	5	12	5	84	Tal. fines, wk soil dev
11100E 9000N	20	2	0.29	132	20	0.2	1	0	0.2	2	10	20	2.28	5	90	0.08	50	0.02	35	0	0	4	510	694	4	1	12	0	5	5	9	5	62	Talus fines
11100E 9050N	10	0.2	0.86	44	30	0.2	1	0.06	0.2	4	11	19	2.13	5	10	0.07	20	0.16	155	1	0.03	10	690	88	1	1	9	0.01	5	5	15	5	60	Talus fines, minor soil
11100E 9100N	10	0.2	2.02	62	50	0.5	1	0.08	0.2	16	22	35	3.79	5	10	0.11	40	0.49	570	0	0	36	420	58	1	4	15	0.01	5	5	17	5	152	
11100E 9150N	5	0.1	1.56	52	40	0.2	1	0.05	0.2	9	20	30	3.7	5	20	0.11	30	0.28	255	0	0	26	600	32	1	1	11	0.01	5	5	23	5	126	Fine sandy till
11100E 9200N	5	0.1	2.39	60	60	0.5	1	0.07	0.2	15	25	32	4.21	5	10	0.11	30	0.45	615	1	0	32	600	52	2	3	14	0.01	5	5	23	5	154	Fine till (?)
11100E 9250N	10	0.2	2.2	46	50	0.5	1	0.07	0.2	8	19	19	3.75	5	30	0.06	30	0.35	250	0	0	22	610	54	2	2	12	0.01	5	5	19	5	134	
11100E 9300N	2	0.1	1.46	24	30	0.2	1	0.04	0.2	7	24	16	4.42	5	40	0.05	20	0.32	280	0	0	16	550	32	1	1	8	0.01	5	5	28	5	52	Till cover
11100E 9350N	10	0.1	2.86	84	30	0.5	1	0.08	0.2	14	27	36	4.84	5	30	0.06	30	0.48	435	1	0	29	550	46	1	3	12	0.02	5	5	20	5	90	Bare area; till
0050	20	0.8	0.35	108	10	0.2	1	0.01	0.2	4	13	27	2.98	5	30	0.06	40	0.05	80	0	0	12	600	360	4	1	11	0	5	5	12	5	98	Tal. fines, wk soil dev
0100	5	0.6	0.41	78	30	0.2	1	0.01	0.2	7	12	19	2.48	5	30	0.07	40	0.08	220	0	0	13	380	238	2	1	9	0	5	5	10	5	92	Tal. fines, wk soil dev
0150	15	1.2	0.31	140	30	0.2	1	0	0.2	4	12	29	2.6	5	50	0.08	60	0.01	70	0	0	8	540	454	6	3	16	0	5	5	12	5	80	Tal. fines, wk soil dev
0200	15	0.2	0.27	94	30	0.2	1	0	0.2	2	9	18	1.79	5	20	0.08	60	0	40	0	0	6	450	110	2	1	17	0	5	5	8	5	38	Tal. fines, wk soil dev
0250	10	0.2	0.33	74	30	0.2	1	0	0.2	9	13	31	3.35	5	80	0.1	60	0.01	185	0	0	20	590	96	2	2	20	0	5	5	12	5	102	Tal. fines, wk soil dev
0300	10	0.1	0.44	22	10	0.2	1	0.03	0.2	2	5	10	1.06	5	50	0.05	10	0.05	50	0	0.03	4	440	24	1	0	7	0	5	5	11	5	20	Tal. fines, wk soil dev
0350	30	0.6	0.23	172	30	0.2	1	0	0.2	1	8	17	2.43	5	70	0.08	60	0	30	0	0	3	530	122	8	1	20	0	5	5	8	5	40	Tal. fines, wk soil dev
0400	25	0.6	0.26	106	30	0.2	1	0	0.2	1	6	12	1.86	5	5	0.09	60	0.01	25	0	0	3	440	100	2	1	18	0	5	5	7	5	20	Tal. fines, wk soil dev
0450	30	0.8	0.28	226	30	0.2	1	0	0.2	1	7	19	1.92	5	50	0.09	50	0	25	0	0	4	440	172	6	1	21	0	5	5	6	5	34	Tal. fines, wk soil dev
0500	65	3.4	0.27	794	50	0.2	1	0	0.2	1	5	19	2.68	5	80	0.14	50	0.01	20	0	0	1	450	1010	10	1	24	0	5	5	7	5	62	Talus fines
0557	50	3.4	0.36	448	30	0.2	1	0.01	0.2	3	6	29	2.58	5	50	0.11	50	0.01	55	0	0	8	500	1330	6	1	22	0	5	5	8	5	82	Talus fines
0622	5	0.2	0.3	64	30	0.2	1	0	0.2	6	8	36	2.5	5	10	0.07	40	0	105	0	0	12	480	58	1	1	19	0	5	5	7	5	56	Talus fines
0650	10	0.2	0.38	74	40	0.2	1	0	0.2	2	4	29	1.85	5	10	0.08	30	0.01	40	0	0	4	480	64	1	1	21	0	5	5	6	5	32	Talus fines
0708	10	0.2	0.2	72	10	0.2	1	0	0.2	8	5	29	3.06	5	5	0.06	40	0.01	215	0	0	16	400	60	1	2	15	0	5	5	6	5	76	Talus fines
0750	10	0.4	0.33	146	30	0.2	2	0	0.2	8	5	45	3.51	5	10	0.09	40	0.01	190	0	0	19	590	62	10	3	29	0	5	5	6	5	90	Talus fines
0800	15	0.4	0.25	132	10	0.2	1	0	0.2	7	6	29	2.53	5	10	0.06	40	0.01	155	0	0	14	460	130	1	2	23	0	5	5	6	5	80	Talus fines
0850	15	0.6	0.45	144	30	0.2	1	0	0.2	12	8	25	2.91	5	10	0.09	60	0.07	370	0	0	20	450	238	2	1	20	0	5	5	6	5	112	Talus fines

"WARREN ZONE"

"MEADOWS ZONE"
9.90 t/2.0m

MATILDA VEIN
10.42
10.44
23.82

SP97 1-5

SP97-6

SP97-8

SP97-7

"SHEILA ZONE"

"SUGAR BOWL"

"SWAGMAN ZONE"

"RIDLE ZONE"

"NEEBING ZONE"

"KANGAS ZONE"

"MAIN SKARN"

"CONFLUENCE ZONE"
SN97-3
4.8/4.9m

SN97-2
4.99/22.0m

SN97-1

HODDER HILL AREA

SPROGGE CREEK FAULT (ASSUMED)

SPROGGE 1-74

SPROGGE 75-108

SPROGGE CAK FAULT

CONFIRMED FAULT

NEEBING FAULT

JUSTIN 1-25 (SUN)

SNOW 26-100

DAYO CREEK FAULT (ASSUMED)

DAYO CREEK

SPROGGE CREEK

Interpreted

ASSUMED

CONFIRMED

Possible broad zone of structurally controlled mineralization

PrCh Hyland Group

Predominantly Phyllite, Quartz-Pebble Conglomerate, Minor limestone.

COr (Tahltan limestone member) (Rabbitkettle Formation)

6 846 000 N
6 845 000 N
6 844 000 N
6 843 000 N
6 842 000 N
6 841 000 N
6 840 000 N
6 839 000 N
6 838 000 N
6 837 000 N
6 836 000 N
6 835 000 N
6 834 000 N
6 833 000 N

535 000 E
536 000 E
537 000 E
538 000 E
539 000 E
540 000 E
541 000 E
542 000 E
543 000 E
544 000 E
545 000 E
546 000 E
547 000 E
548 000 E
549 000 E
550 000 E
551 000 E

LEGEND

CRETACEOUS (Tombstone Suite)

Kqm : Quartz Monzonite, Quartz Diorite Dykes, Quartz Biotite Monzonite. Local limonite altered quartz monzonite. (QM, QDR, QBM, LAQM, LQBM)

CAMBRIAN-ORDOVICIAN (Rabbitkettle Formation)

COr : Thin - medium bedded limestone (LST)

LATE PRECAMBRIAN-CAMBRIAN (Hyland Group)

PrCh :Limestone, Silty Limestone (LST, SLST)

PrCh :Phyllite, Siltstone, Weakly Calcareous Phyllite, minor slate, argillite, chloritic slate. (PHY, SLT, ARG)

PrCh :Quartz Pebble Conglomerate, Sandstone, Minor Greywacke (QPC, GW, SS)

ABBREVIATIONS

Kqm	: Cretaceous quartz monzonite
COr	: Rabbitkettle Formation
PrCh	: Hyland Groups
ARG	: Argillite
GW	: Greywacke
LAQM	: Limonitic altered quartz monzonite
LQBM	: Limonitic quartz biotite monzonite
LST	: Limestone
LSLT	: Limy Siltstone
PHY	: Phyllite
QBM	: Quartz Biotite Monzonite
QDR	: Quartz Diorite
QPPC	: Quartz feldspar pebble conglomerate
QM	: Quartz Monzonite
QPC	: Quartz pebble conglometate
QPM	: Quartz porphyritic monzonite
SLST	: Silty Limestone
SLT	: Siltstone
SH	: Shale
SS	: Sandstone
Ag	: Silver
Ank	: Ankerite
Arg	: Argillic alteration
As	: Arsenopyrite
Au	: Gold
alt.	: Alteration
Breac	: Brecciated
Calc	: Calcareous
Carb	: Carbonaceous alteration
Chcy	: Chalcedony
Chl	: Chlorite
Cont	: Continuous
Cpy	: Chalcopyrite
Ga	: Galena
graph	: graphite
Hfels	: Hornfels
lim	: limonite
loc	: location
o/c	: outcrop
sil.	: silicified
Pb	: Lead
Po	: Pyrrhotite
Py	: Pyrite
Qz	: Quartz
rcrop	: Rubble Crop
Scor	: Scorodite
Stk	: Stockwork
Sn	: Skarn
tr	: Trace
Nb	: Preliminary mapping only across areas outside of immediate vincinity of gridded areas.

SYMBOLS

- Strike + Dip of Bedding
- Strike + Dip of Foliation
- Strike + Dip of Joint Plane
- Strike + Dip of Vein
- Fault; Dip of fault plane
- Trend of antiformal fold axis
- Geologic contact; Interpreted
- Outcrop boundary
- Talus, rubble crop boundary
- Topographic contour (meters)
- Property boundary
- Stream; intermittent
- Flagged, Picketed grid line
- Quartz, quartz-arsenopyrite vein
- Tree line boundaries
- Rock Sample Location, Au values in gpt
- Soil Sample Location (ppb Au unless indicated)
- Silt Sample Location (ppb Au) ("-1" = not analyzed for Au)
- UTM Grid Lines
- Interval of significant rock sample values
- Hand Trench

VICEROY INTERNATIONAL EXPLORATION

093783
Vol 2

COMPILATION MAP
SPROGGE PROJECT

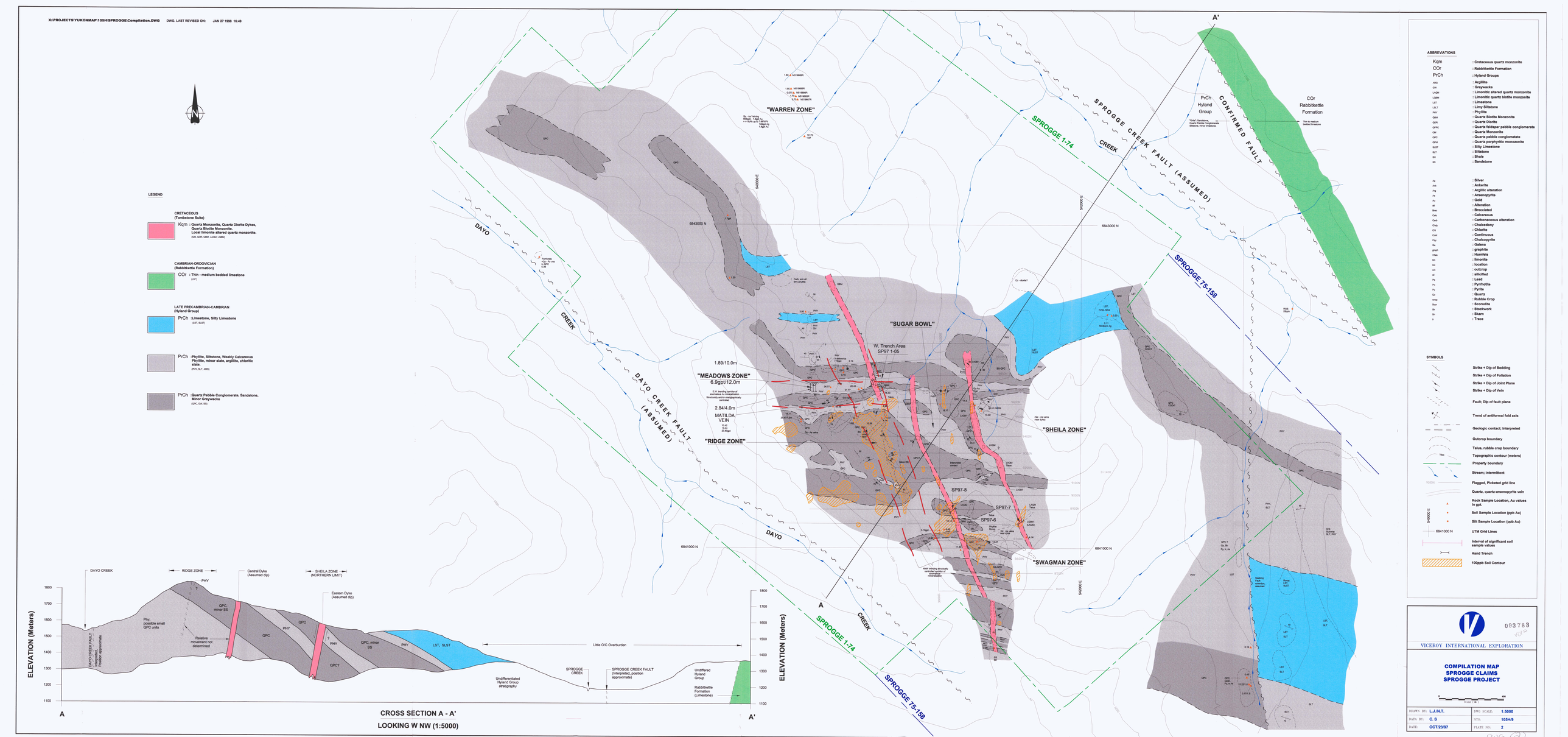
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SCALE (m)

DRAWN BY:	N.T.	DWG SCALE:	1:20 000
DATA BY:	C.S.	NTS:	105H/9
DATE:	DEC-01-97	PLATE NO:	1

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LEGEND

CRETACEOUS (Tombstone Suite)

Kqm : Quartz Monzonite, Quartz Diorite Dykes, Quartz Biotite Monzonite. Local limonite altered quartz monzonite. (GM, GDR, GBM, LAQM, LGBM)

CAMBRIAN-ORDOVICIAN (Rabbitkettle Formation)

COr : Thin - medium bedded limestone (LST)

LATE PRECAMBRIAN-CAMBRIAN (Hyland Group)

PrCh : Limestone, Silty Limestone (LST, SLST)

PrCh : Phyllite, Siltstone, Weakly Calcareous Phyllite, minor slate, argillite, chloritic slate. (PHY, SLT, ARG)

PrCh : Quartz Pebble Conglomerate, Sandstone, Minor Greywacke (QPC, GW, SS)

ABBREVIATIONS

Kqm	: Cretaceous quartz monzonite
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ARG	: Argillite
GW	: Greywacke
LAQM	: Limonitic altered quartz monzonite
LGBM	: Limonitic quartz biotite monzonite
LST	: Limestone
LSLT	: Limy Siltstone
PHY	: Phyllite
GBM	: Quartz Biotite Monzonite
GDR	: Quartz Diorite
QPFC	: Quartz feldspar pebble conglomerate
QM	: Quartz Monzonite
QPC	: Quartz pebble conglomerate
QPM	: Quartz porphyritic monzonite
SLST	: Silty Limestone
SLT	: Siltstone
SH	: Shale
SS	: Sandstone
Ag	: Silver
Ank	: Ankerite
Arg	: Argillic alteration
As	: Arsenopyrite
Au	: Gold
alt	: Alteration
Brec	: Brecciated
Calc	: Calcareous
Carb	: Carbonaceous alteration
Chlc	: Chalcedony
Chl	: Chlorite
Cont	: Continuous
Cpy	: Chalcopyrite
Ga	: Galena
grph	: graphite
Hem	: Hornfels
lim	: limonite
loc	: location
out	: outcrop
sil	: silicified
Pb	: Lead
Po	: Pyrrhotite
Py	: Pyrite
Qz	: Quartz
rmp	: Rubble Crop
Scor	: Scorodite
St	: Stockwork
Sk	: Skarn
tr	: Trace

SYMBOLS

- Strike + Dip of Bedding
- Strike + Dip of Foliation
- Strike + Dip of Joint Plane
- Strike + Dip of Vein
- Fault; Dip of fault plane
- Trend of antiformal fold axis
- Geologic contact; Interpreted
- Outcrop boundary
- Talus, rubble crop boundary
- Topographic contour (meters)
- Property boundary
- Stream; intermittent
- Flagged, Picketed grid line
- Quartz, quartz-arsenopyrite vein
- Rock Sample Location, Au values in gpt.
- Soil Sample Location (ppb Au)
- Silt Sample Location (ppb Au)
- 6841000 N — UTM Grid Lines
- Interval of significant soil sample values
- Hand Trench
- 100ppb Soil Contour

CROSS SECTION A - A'
LOOKING W NW (1:5000)

VICEROY INTERNATIONAL EXPLORATION

093783

COMPILATION MAP
SPROGGE CLAIMS
SPROGGE PROJECT

SCALE 1:5000

DRAWN BY: L.J./N.T.	DWG SCALE: 1:5000
DATA BY: C. S	NTS: 105H/9
DATE: OCT/23/97	PLATE NO: 2

"WARREN ZONE"

"MEADOWS ZONE"

"SUGAR BOWL"

"SHEILA ZONE"

"RIDGE ZONE"

"SWAGMAN ZONE"

MATILDA VEIN

SP97-1→5 Incl.
M389301R-333R

SP97-6
M389334R-340R

SP97-8
M389348R-356R

SP97-7
M389341-347R

SPROGGE

SPROGGE 1-74

SPROGGE 75-158

DAYO CREEK

DAYO

CREEK

SPROGGE 1-74

SPROGGE 75-158

CREEK

540000 E

542000 E

6843000 N

6841000 N

JH3-15

JH3-1

JH3-10

T32-1-21

T32-2
10

T32-1
15

T32-1-1

T32-3-1

T32-4
30

T32-5M-1

T32-5M-5

T32-5M-6

T32-5M-7

T32-5M-8

T32-5M-9

T32-5M-10

T32-5M-11

T32-5M-12

T32-5M-13

T32-5M-14

T32-5M-15

T32-5M-16

T32-5M-17

T32-5M-18

T32-5M-19

T32-5M-20

T32-5M-21

T32-5M-22

T32-5M-23

T32-5M-24

T32-5M-25

T32-5M-26

T32-5M-27

T32-5M-28

T32-5M-29

T32-5M-30

T32-5M-31

T32-5M-32

T32-5M-33

T32-5M-34

T32-5M-35

T32-5M-36

T32-5M-37

T32-5M-38

T32-5M-39

T32-5M-40

T32-5M-41

T32-5M-42

T32-5M-43

T32-5M-44

"WARREN ZONE"

SPROGGE 1-74 CREEK

DAYO CREEK

"MEADOWS ZONE"

"SUGAR BOWL"

W. Trench Area
SP97-1 to 5

MATILDA VEIN

"RIDGE ZONE"

"SHEILA ZONE"

SP97-8

SP97-6

SP97-7

"SWAGMAN ZONE"

DAYO CREEK

SPROGGE 1-74

SPROGGE 75-158

6843000 N

6841000 N

540000 E

542000 E

SYMBOLS

- Topographic contour (meters)
- Property boundary
- Stream; intermittent
- 500ppb Au Soil Contour
- 100ppb Au Soil Contour
- 20ppb Au Soil Contour
- Flagged, Picketed grid line
- 6841000 N — UTM Grid Lines
- 540000 E
- Hand Trench

VICEROY INTERNATIONAL EXPLORATION

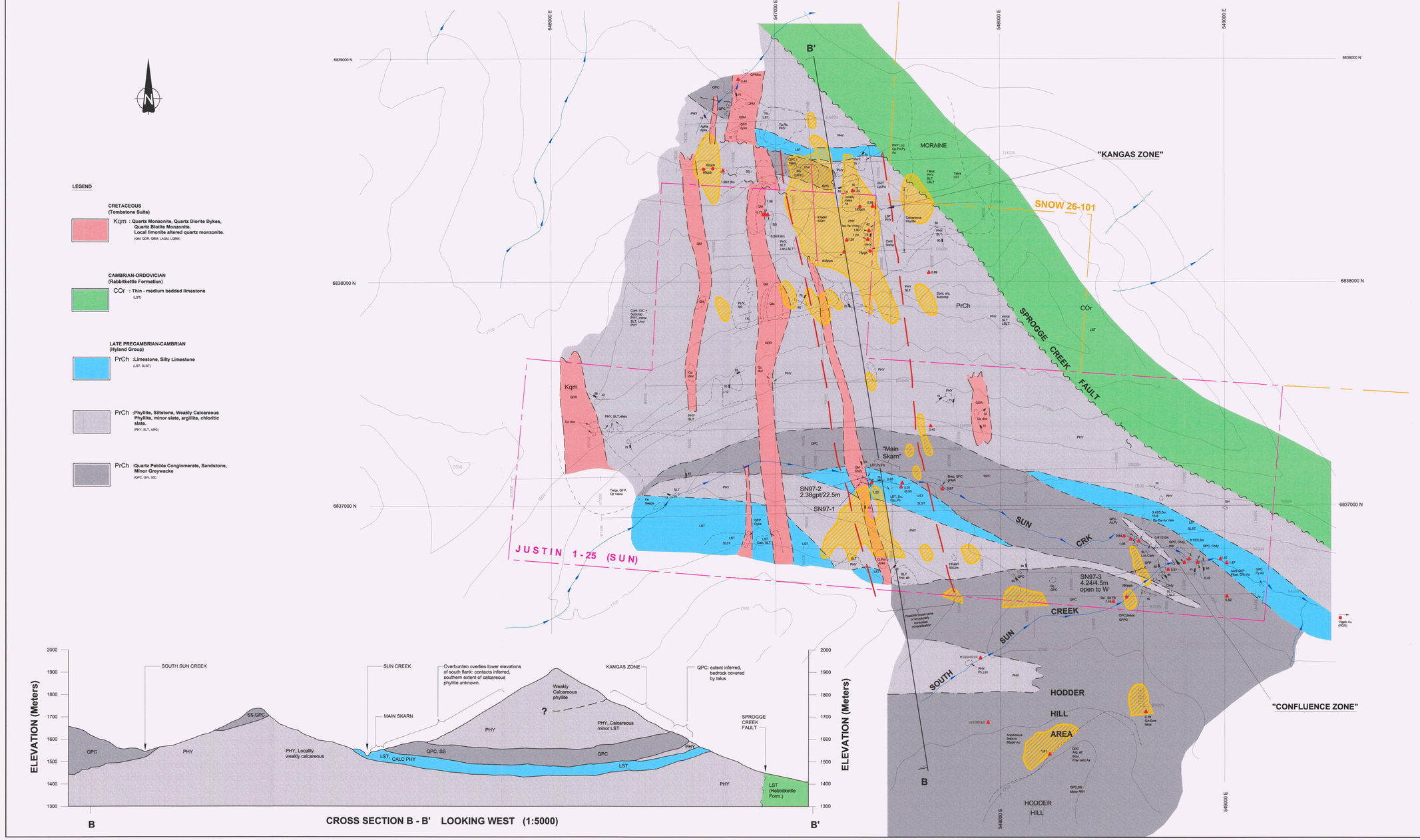
GOLD IN SOIL CONTOUR MAP
SPROGGE CLAIMS
SPROGGE PROJECT

093783

SCALE (m) 0 400

DRAWN BY:	N.T.	DWG SCALE:	1:5000
DATA BY:	C. S	NTS:	105H/9
DATE:	JAN/23/97	PLATE NO:	4

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LEGEND

CRETACEOUS (Tombstone Suite)

Kqm : **Quartz Monzonite, Quartz Diorite Dykes, Quartz Biotite Monzonite. Local limonite altered quartz monzonite.** (QM, QDR, QBM, LAQM, LQBM)

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COr : **Thin - medium bedded limestone** (LST)

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PrCh : **Limestone, Silty Limestone** (LST, SLST)

PrCh : **Phyllite, Siltstone, Weakly Calcareous Phyllite, minor slate, argillite, chloritic slate.** (PHY, SLT, ARG)

PrCh : **Quartz Pebble Conglomerate, Sandstone, Minor Greywacke** (QPC, GW, SS)

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Carb	: Carbonaceous alteration
Chdy	: Chalcedony
Chl	: Chlorite
Cont	: Continuous
Cpy	: Chalcopyrite
Ga	: Galena
graph	: graphite
Hfels	: Hornfels
lim	: limonite
loc	: location
o/c	: outcrop
sil	: silicified
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- Strike + Dip of Vein
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- Topographic contour (meters)
- Property boundary
- Stream; intermittent
- Flagged, Picketed grid line
- Quartz, quartz-arsenopyrite vein
- Rock Sample Location, Au values in ppt.
- Soil Sample Location - ppb Au
- Silt Sample Location (ppb)
- UTM Grid Lines
- Interval of significant soil sample values
- Hand Trench
- 20ppb Soil Contour

CROSS SECTION B - B' LOOKING WEST (1:5000)

VICEROY INTERNATIONAL EXPLORATION

COMPILATION AND SOIL GEOCHEMICAL CONTOUR JUSTIN (SUN) CLAIMS SPROGGE PROJECT

093783 vol 2

0 400 SCALE (m)

DRAWN BY: L.J./N.T.	DWG SCALE: 1:5000
DATA BY: C.S.	NTS: 105H/9
DATE: OCT-21-97	PLATE NO: 5

#5

CADD FILE DIR. X:\PROJECTS\YUKONMAP\105H\SUN\Compilation.DWG DWG. LAST REVISED ON: JAN 27 1998 17:17

"KANGAS ZONE"

"MAIN SKARN"

"CONFLUENCE ZONE"

HODDER HILL AREA

SNOW 26-101

JUSTIN 1-25 (SUN)

Drill Holes 1988
Positions Approximate

SN 97-2: M388306R-315R
SN 97-1: M388301R-305R

SN 97-3: M388254R-259R

45PPB(RGS)

SMSUN-1
SMSUN-2

CS105-108

JH8-24

546000 E
547000 E
548000 E
549000 E

6839000 N
6838000 N
6837000 N

LEGEND

- Topographic contour (meters)
- Property boundary
- Stream; intermittent
- Flagged, Picketed grid line
- Rock Sample Location (Sample #)
- Soil Sample Location (Sample #)
- Silt Sample Location (Sample #)
- Hand Trench
- Drill Hole
- UTM Grid Lines

VICEROY INTERNATIONAL EXPLORATION

SAMPLE LOCATION MAP
JUSTIN (SUN) CLAIMS
SPROGGE PROPERTY

093783
Vol. 2

SCALE (m) 0 400

DRAWN BY:	L.J./N.T.	DWG SCALE:	1:5000
DATA BY:	C.S.	NTS:	105H/9
DATE:	OCT-21-97	PLATE NO:	6

#6

CADD FILE DIR. X:\PROJECTS\YUKONMAP\105H\SUN\SamLoc.DWG DWG. LAST REVISED ON: JAN 27 1998 17:28

546000 E
547000 E
548000 E
549000 E
6839000 N
6838000 N
6837000 N
MORAINE
SNOW 26-101
"KANGAS ZONE"
"MAIN SKARN"
SN 97-2
SN 97-1
SUN CRK
SN 97-3
JUSTIN 1-25 (SUN)
SUN CREEK SOUTH
"CONFLUENCE ZONE"
HODDER HILL AREA
HODDER HILL
1500
1600
1700
1800
1900
2000
11600N
11400N
11200N
11000N
10400N
10200N
10000N
9800N
9600N
9500N
9400N
9350N
8900N
9150E
9300E
9250E
9700E
8650E
9100E
9650E
10300E
10100E
8300E
8700E
10650E
11300E
11150E
11600E
10800E
10500E
10950E
11100E
1400
SYMBOLS
Topographic contour (meters)
Property boundary
Stream; intermittent
500ppb Soil Contour
100ppb Soil Contour
50ppb Soil Contour
20ppb Soil Contour
Flagged, Picketed grid line
6841000 N
UTM Grid Lines
540000 E
Hand Trench
VICEROY INTERNATIONAL EXPLORATION
COMPILATION AND
SOIL GOLD GEOCHEMICAL CONTOUR
JUSTIN (SUN) CLAIMS
SPROGGE PROJECT
093783
YOI 2
0
400
SCALE (m)
DRAWN BY: L.J./N.T.
DWG SCALE: 1:5000
DATA BY: C.S.
NTS: 105H/9
DATE: JAN-19-98
PLATE NO: 7
#7
CADD FILE DIR. X:\PROJECTS\YUKONMAP\105H\SUN\GeoChem.DWG
DWG. LAST REVISED ON: JAN 27 1998 18:00